

Analytical Report Number: 25-008976
 Project / Site name: Cadent Hickley
 Your Order No: 415001-00017-00401

Lab Sample Number				462393	462394	462395	462396	462397
Sample Reference				MW25-20	MW25-20	MW25-20	DUP-9	MW25-21
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.00	5.40	9.90	None Supplied	0.30
Date Sampled				17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025
Time Taken				1317	1330	1340	None Supplied	1115
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Lab Sample Number	462398	462399	462400	462401	462402
Sample Reference	MW25-21	MW25-21	MW25-22	MW25-22	DUP-8
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.00	5.20	0.50	1.00	None Supplied
Date Sampled	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025
Time Taken	1120	1205	1517	1522	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	19.5	38.2	< 0.1
Moisture Content	%	0.01	NONE	11	20	15	8.3	19
Total mass of sample received	kg	0.1	NONE	0.6	0.5	0.5	0.6	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	Detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	KJK	-	-
Analysis completed	N/A	N/A	N/A	-	-	27/02/2025	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	Detected	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	Detected	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	Not-detected	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	0.001	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	Loose Fibres	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.9	9.4	8.7	7.7	8.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	16	78	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	16	78	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	6.8	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	24	22	360	4600	21
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	12	11.1	182	2300	10.6
Sulphide	mg/kg	1	MCERTS	< 1.0	2.2	37	17	3
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	92	8	110	110	7.9
Elemental Sulphur	mg/kg	5	MCERTS	7.5	< 5.0	190	64	< 5.0
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	< 0.5	3.1	2.7	< 0.5
Organic Matter	%	0.1	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	< 0.1	< 0.1	1.9	1.6	< 0.1
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	< 0.0010	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	1.1	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.6	< 0.2	3.7	3.2	< 0.2

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

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Sample Reference	MW25-21	MW25-21	MW25-22	MW25-22	DUP-8
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.00	5.20	0.50	1.00	None Supplied
Date Sampled	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025
Time Taken	1120	1205	1517	1522	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.22	< 0.05	30	0.57	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.06	< 0.05	9.9	0.54	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	5.3	0.36	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.08	< 0.05	9.8	0.71	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.2	< 0.05	24	7.9	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	5.6	2.4	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.07	< 0.05	8.3	13	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.07	< 0.05	9.9	11	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	4.5	5.5	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	4.5	5.3	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	2.9	6.5	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	1.4	2.1	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	2.9	5.4	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.1	2.5	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.32	0.63	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.2	2.5	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	122	66.3	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	3.3	1.2	11	20	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	0.4	3.2	1.8	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	9.8	2.1	50	24	1.9
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.8	4.5	44	39	3.7
Lead (aqua regia extractable)	mg/kg	1	MCERTS	6.6	1.8	66	130	1.7
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.7	2.3	34	19	2.2
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1	1.1	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	31	9.8	100	78	9.6

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Sample Reference	MW25-21	MW25-21	MW25-22	MW25-22	DUP-8
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.00	5.20	0.50	1.00	None Supplied
Date Sampled	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025
Time Taken	1120	1205	1517	1522	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	-	-	2.2	< 1.0	-
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	-	-	36	< 2.0	-
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	-	-	62	< 8.0	-
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	-	-	94	< 8.0	-
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_ID_AL	mg/kg	10	NONE	-	-	190	< 10	-

TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	-	-	0.073	0.025	-
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	-	-	0.029	0.027	-
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	-	-	0.59	0.028	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	-	-	22	< 1.0	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	-	-	110	5.2	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	100	39	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	47	38	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	-	-	280	82	-

TPH (EC10 - EC40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	< 10	< 10	-	-	< 10
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	< 0.0050	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	-	< 0.005	< 0.005	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	< 0.0050	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	< 0.0070	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	0.07	0.023	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	< 0.0060	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	0.025	0.027	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	< 0.0060	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-

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Sample Reference				MW25-21	MW25-21	MW25-22	MW25-22	DUP-8
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				2.00	5.20	0.50	1.00	None Supplied
Date Sampled				17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025
Time Taken				1120	1205	1517	1522	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	0.18	0.008	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	0.12	0.01	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	0.19	0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	0.0099	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	< 0.0050	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	0.0096	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	0.087	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	0.27	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	< 0.0080	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	< 0.0050	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	< 0.1	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	< 0.2	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	< 0.05	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2	-	-

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Sample Reference				MW25-21	MW25-21	MW25-22	MW25-22	DUP-8
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				2.00	5.20	0.50	1.00	None Supplied
Date Sampled				17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025
Time Taken				1120	1205	1517	1522	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	16	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	1.3	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.30	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	2.3	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Lab Sample Number	462403	462404	462405	462406	462407
Sample Reference	VW25-14	VW25-15	VW25-15	VW25-16A	VW25-16A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.00	0.25	0.75	0.25	0.50
Date Sampled	17/02/2025	17/02/2025	17/02/2025	18/02/2025	18/02/2025
Time Taken	1100	1345	1355	1105	1110
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	42.5	< 0.1	39.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.6	12	11	8.5	11
Total mass of sample received	kg	0.1	NONE	0.5	0.6	0.5	0.5	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected	-	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	-	KJK	-	KJK	-
Analysis completed	N/A	N/A	N/A	-	27/02/2025	-	27/02/2025	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	9.8	8	10.9	8.4	8.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	230	30	180	16	50
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	113	15.2	90.4	8.14	24.8
Sulphide	mg/kg	1	MCERTS	8.7	2	18	2.4	7.7
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	27	5.5	20	4.2	11
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Organic Matter	%	0.1	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	< 0.1	0.7	3	0.4	0.3
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	< 0.1	-	1.7	-	0.2
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.5	1.9	4.3	0.9	1.6

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

Analytical Report Number: 25-008976
 Project / Site name: Cadent Hickley
 Your Order No: 415001-00017-00401

Lab Sample Number	462403	462404	462405	462406	462407
Sample Reference	VW25-14	VW25-15	VW25-15	VW25-16A	VW25-16A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.00	0.25	0.75	0.25	0.50
Date Sampled	17/02/2025	17/02/2025	17/02/2025	18/02/2025	18/02/2025
Time Taken	1100	1345	1355	1105	1110
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.09	0.11	2.1	< 0.05	0.24
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.13	3.6	0.31	0.17
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.08	4.2	0.07	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.28	3.5	0.17	0.12
Phenanthrene	mg/kg	0.05	MCERTS	0.31	2	40	1.7	1.3
Anthracene	mg/kg	0.05	MCERTS	0.05	0.52	12	0.55	0.37
Fluoranthene	mg/kg	0.05	MCERTS	0.46	2.2	83	3.1	2
Pyrene	mg/kg	0.05	MCERTS	0.38	1.9	76	3.1	2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.22	0.93	50	2.1	1.4
Chrysene	mg/kg	0.05	MCERTS	0.24	0.94	42	2.1	1.5
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.32	0.91	62	1.7	1.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.09	0.42	29	0.97	0.7
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.22	0.82	62	1.7	1.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.13	0.39	33	0.65	0.39
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.1	6.1	0.18	0.11
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.15	0.49	38	0.85	0.47

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.68	12.1	546	19.2	12.9
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	6.6	9.1	3.7	5.9
Boron (water soluble)	mg/kg	0.2	MCERTS	1.5	0.8	1.2	0.7	1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	24	18	11	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	21	39	9.1	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	10	21	84	4.8	17
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	12	22	22	6.3	9.2
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	55	63	95	20	41

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Lab Sample Number	462403	462404	462405	462406	462407
Sample Reference	VW25-14	VW25-15	VW25-15	VW25-16A	VW25-16A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.00	0.25	0.75	0.25	0.50
Date Sampled	17/02/2025	17/02/2025	17/02/2025	18/02/2025	18/02/2025
Time Taken	1100	1345	1355	1105	1110
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	-	< 10	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	-	< 0.020	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	-	-	19	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	-	200	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	-	250	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	-	470	-	-

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10	480	60	22
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Chloroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Bromomethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Vinyl Chloride	mg/kg	0.005	NONE	< 0.0050	-	-	-	< 0.0050
Trichlorofluoromethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,1-Dichloroethene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	-	< 0.005	-	< 0.005
1,1-Dichloroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
2,2-Dichloropropane	mg/kg	0.005	NONE	< 0.0050	-	-	-	< 0.0050
Chloroform	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,2-Dichloroethane	mg/kg	0.007	MCERTS	< 0.0070	-	-	-	< 0.0070
1,1-Dichloropropene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	0.006	< 0.005	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,2-Dichloropropane	mg/kg	0.006	MCERTS	< 0.0060	-	-	-	< 0.0060
Trichloroethene	mg/kg	0.01	MCERTS	< 0.010	-	-	-	< 0.010
Dibromomethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Bromodichloromethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	< 0.010	-	-	-	< 0.010
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	0.007	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	< 0.0060	-	-	-	< 0.0060
1,3-Dichloropropane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Dibromochloromethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Tetrachloroethene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050

Analytical Report Number: 25-008976
 Project / Site name: Cadent Hickey
 Your Order No: 415001-00017-00401

Lab Sample Number				462403	462404	462405	462406	462407
Sample Reference				VW25-14	VW25-15	VW25-15	VW25-16A	VW25-16A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.00	0.25	0.75	0.25	0.50
Date Sampled				17/02/2025	17/02/2025	17/02/2025	18/02/2025	18/02/2025
Time Taken				1100	1345	1355	1105	1110
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Chlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Bromoform	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	< 0.0050	-	-	-	< 0.0050
Bromobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
n-Propylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
2-Chlorotoluene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
4-Chlorotoluene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
tert-Butylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
sec-Butylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
p-Isopropyltoluene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Butylbenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	< 0.0080	-	-	-	< 0.0080
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
Hexachlorobutadiene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	< 0.0050	-	-	-	< 0.0050

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-

Analytical Report Number: 25-008976
 Project / Site name: Cadent Hickley
 Your Order No: 415001-00017-00401

Lab Sample Number				462403	462404	462405	462406	462407
Sample Reference				VW25-14	VW25-15	VW25-15	VW25-16A	VW25-16A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.00	0.25	0.75	0.25	0.50
Date Sampled				17/02/2025	17/02/2025	17/02/2025	18/02/2025	18/02/2025
Time Taken				1100	1345	1355	1105	1110
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Lab Sample Number	462408	462409	462410	462411	462412
Sample Reference	VW25-17	VW25-17	VW25-18	VW25-18	MW25-23B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	1.00	0.30	1.00	0.80
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1405	1420	1645	1650	1420
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15	12	21	13
Total mass of sample received	kg	0.1	NONE	0.5	0.6	0.5	0.6	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KJK	-	KJK	-	KJK
Analysis completed	N/A	N/A	N/A	27/02/2025	-	27/02/2025	-	27/02/2025
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.5	8.4	10.4	8.8	9.7
Total Cyanide	mg/kg	1	MCERTS	18	< 1.0	14	230	1.9
Complex Cyanide	mg/kg	1	MCERTS	18	< 1.0	14	230	1.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	340	270	4300	6400	590
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	172	133	2170	3190	293
Sulphide	mg/kg	1	MCERTS	3	2.9	12	520	7.7
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	180	160	280	640	27
Elemental Sulphur	mg/kg	5	MCERTS	10	8.4	150	3200	< 5.0
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	1.7	130	< 0.5	35	< 0.5
Organic Matter	%	0.1	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	1	0.4	2.3	4.6	1
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6	-	-	2.7	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	2.2	2.9	4	6.1	2.1

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

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Project / Site name: Cadent Hickley
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Lab Sample Number	462408	462409	462410	462411	462412
Sample Reference	VW25-17	VW25-17	VW25-18	VW25-18	MW25-23B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	1.00	0.30	1.00	0.80
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1405	1420	1645	1650	1420
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.66	0.93	1.1	10	1
Acenaphthylene	mg/kg	0.05	MCERTS	0.06	0.07	0.32	5.6	1
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.08	3	0.1
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.28	7.6	0.32
Phenanthrene	mg/kg	0.05	MCERTS	0.14	0.08	0.52	12	3
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.19	5.4	0.9
Fluoranthene	mg/kg	0.05	MCERTS	0.26	0.06	1.1	19	5.2
Pyrene	mg/kg	0.05	MCERTS	0.22	< 0.05	1.2	17	4.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.15	< 0.05	0.67	8.1	3
Chrysene	mg/kg	0.05	MCERTS	0.14	< 0.05	0.76	8	3.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.23	< 0.05	1.3	13	4.7
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.06	< 0.05	0.54	5.2	1.8
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.16	< 0.05	1.1	12	4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.1	< 0.05	0.88	6.5	2.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.17	1.4	0.51
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.11	< 0.05	0.99	6.3	2.5

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.27	1.14	11.3	140	38.3
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.7	12	11	13	15
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	1.3	2.4	2.2	2.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	36	27	30	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	20	110	82	28
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	13	40	120	51
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	30	21	26	16
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	64	60	79	76	78

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Lab Sample Number	462408	462409	462410	462411	462412
Sample Reference	VW25-17	VW25-17	VW25-18	VW25-18	MW25-23B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.25	1.00	0.30	1.00	0.80
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1405	1420	1645	1650	1420
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	0.37	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	1.1	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	0.73	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	-	-	-	80	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	-	-	-	740	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	-	-	1000	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	-	-	220	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	-	-	2100	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	-	-	1.1	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	-	-	0.95	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	-	-	13	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	-	-	-	67	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	-	-	-	450	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	-	-	650	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	-	-	260	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	-	-	1400	-

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10	410	-	69
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	< 0.0050	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	-	-	< 0.005	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	< 0.0050	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	< 0.0070	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	0.011	0.015	0.89	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	< 0.0060	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	< 0.010	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	< 0.010	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	0.025	0.014	0.22	0.01
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	< 0.0060	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-

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Lab Sample Number				462408	462409	462410	462411	462412
Sample Reference				VW25-17	VW25-17	VW25-18	VW25-18	MW25-23B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.25	1.00	0.30	1.00	0.80
Date Sampled				18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken				1405	1420	1645	1650	1420
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	6.3	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	0.46	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	1.1	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	< 0.0050	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	2.1	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	1.9	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	0.79	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	< 0.0080	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	< 0.0050	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	0.4	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	0.5	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-

Analytical Report Number: 25-008976
 Project / Site name: Cadent Hickley
 Your Order No: 415001-00017-00401

Lab Sample Number				462408	462409	462410	462411	462412
Sample Reference				VW25-17	VW25-17	VW25-18	VW25-18	MW25-23B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.25	1.00	0.30	1.00	0.80
Date Sampled				18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken				1405	1420	1645	1650	1420
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	5.4	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.30	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	1.3	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	< 0.3	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Lab Sample Number	462413	462414	462415	462416	462417
Sample Reference	MW25-23B	MW25-23B	MW25-23B	MW25-23B	DUP-10
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.60	4.70	7.50	10.10	None Supplied
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1203	1210	1218	1502	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15	< 0.01	17	16
Total mass of sample received	kg	0.1	NONE	0.6	0.5	0.6	0.4	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	-
Analysis completed	N/A	N/A	N/A	-	-	-	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	8.4	U/S	9	8.3
Total Cyanide	mg/kg	1	MCERTS	24	100	U/S	< 1.0	1.2 ^{*U/S f}
Complex Cyanide	mg/kg	1	MCERTS	24	100	U/S	< 1.0	1.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	U/S	< 1.0	< 1.0 ^{*U/S f}
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	U/S ^{*U/S}	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	270	290	U/S ^{*U/S f}	190	210
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	135	144	U/S ^{*U/S f}	96.9	105
Sulphide	mg/kg	1	MCERTS	6.8	56	U/S ^{*U/S}	120	1.5
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	12	62	U/S ^{*U/S}	56	12
Elemental Sulphur	mg/kg	5	MCERTS	7.6	630	U/S ^{*U/S}	110	11
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	8.2	110	370 ^{§§}	< 0.5
Organic Matter	%	0.1	MCERTS	-	-	9.3	-	-
Organic Matter (automated)	%	0.1	MCERTS	0.1	0.3	-	1.6	< 0.1
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	< 0.1	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.6	0.4	4 ^{*j}	1.7	0.7

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	U/S ^{*U/S}	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	U/S ^{*U/S}	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	U/S ^{*U/S}	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	U/S ^{*U/S}	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	U/S ^{*U/S}	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	U/S ^{*U/S}	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	U/S ^{*U/S}	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	U/S ^{*U/S}	< 0.40	< 0.40

Analytical Report Number: 25-008976
 Project / Site name: Cadent Hickley
 Your Order No: 415001-00017-00401

Lab Sample Number	462413	462414	462415	462416	462417
Sample Reference	MW25-23B	MW25-23B	MW25-23B	MW25-23B	DUP-10
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.60	4.70	7.50	10.10	None Supplied
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1203	1210	1218	1502	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	U/S ^{*U/S f}	< 1.4	< 1.4
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.24	2.3	U/S ^{*U/S f}	1.6	0.68
Acenaphthylene	mg/kg	0.05	MCERTS	0.06	4	U/S ^{*U/S f}	0.1	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	1	U/S ^{*U/S f}	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	3.8	U/S ^{*U/S f}	0.07	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.42	6.2	U/S ^{*U/S f}	0.15	0.11
Anthracene	mg/kg	0.05	MCERTS	0.09	1.5	U/S ^{*U/S f}	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.39	1.7	U/S ^{*U/S f}	0.08	0.08
Pyrene	mg/kg	0.05	MCERTS	0.32	1.3	U/S ^{*U/S f}	< 0.05	0.06
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.15	0.41	U/S ^{*U/S f}	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.19	0.36	U/S ^{*U/S f}	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.15	0.42	U/S ^{*U/S f}	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.13	U/S ^{*U/S f}	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.1	0.38	U/S ^{*U/S f}	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.07	0.2	U/S ^{*U/S f}	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	U/S ^{*U/S f}	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.26	U/S ^{*U/S f}	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.18	23.9	U/S	2	0.93
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.6	2.3	U/S ^{*U/S f}	9.7	9.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	0.6	U/S ^{*U/S f}	1.4	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	U/S ^{*U/S f}	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	U/S ^{*U/S f}	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	11	6.6	U/S ^{*U/S f}	15	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	10	9.1	U/S ^{*U/S f}	14	8.8
Lead (aqua regia extractable)	mg/kg	1	MCERTS	7.4	5.7	U/S ^{*U/S f}	8.9	7.8
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	U/S ^{*U/S f}	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	7.9	6.5	U/S ^{*U/S f}	16	8.4
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	U/S ^{*U/S f}	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	43	23	U/S ^{*U/S f}	47	38

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Lab Sample Number	462413	462414	462415	462416	462417
Sample Reference	MW25-23B	MW25-23B	MW25-23B	MW25-23B	DUP-10
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.60	4.70	7.50	10.10	None Supplied
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1203	1210	1218	1502	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	4.9	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	1.8	31 [%]	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	-	24	U/S ^{*U/S}	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	-	99	U/S ^{*U/S}	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	25	U/S ^{*U/S}	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	< 8.0	U/S ^{*U/S}	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	150	36	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	0.023	32 [%]	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	0.25	36 [%]	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	1.3	120 [%]	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	-	15	U/S ^{*U/S}	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	-	120	U/S ^{*U/S}	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	48	U/S ^{*U/S}	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	21	U/S ^{*U/S}	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	210	U/S	-	-

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	-	-	< 10	18
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	< 0.005	< 0.005	-	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	< 0.0070	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	33 ^{&+}	3.6	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	< 0.0060	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	< 0.010	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	< 0.010	-	-	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	0.24	36 ^{&+}	0.32	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	< 0.0060	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-

Analytical Report Number: 25-008976
 Project / Site name: Cadent Hickley
 Your Order No: 415001-00017-00401

Lab Sample Number				462413	462414	462415	462416	462417
Sample Reference				MW25-23B	MW25-23B	MW25-23B	MW25-23B	DUP-10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				2.60	4.70	7.50	10.10	None Supplied
Date Sampled				18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken				1203	1210	1218	1502	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	0.095	25 ⁸⁺	0.29	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	0.36	43 ⁸⁺	0.65	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	0.3	41 ⁸⁺	0.28	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	1.6	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	< 0.0080	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	0.2	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	< 0.2	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	< 0.05	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	< 0.3	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2	-	-	-

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 Project / Site name: Cadent Hickley
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Lab Sample Number				462413	462414	462415	462416	462417
Sample Reference				MW25-23B	MW25-23B	MW25-23B	MW25-23B	DUP-10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				2.60	4.70	7.50	10.10	None Supplied
Date Sampled				18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken				1203	1210	1218	1502	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	-	0.2	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	2.5	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	< 0.3	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.30	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	< 0.3	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	< 0.3	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Lab Sample Number				462418	462419	462420	462421	462422
Sample Reference				MW25-22	MW25-24	MW25-24	MW25-24	DUP-11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.40-4.00	0.40	1.50	6.20	None Supplied
Date Sampled				18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken				1442	1532	1548	1610	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	36.9	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	15	8.4	15	16
Total mass of sample received	kg	0.1	NONE	0.5	0.6	0.5	0.5	0.1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Detected	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	KJK	KJK	-	-	-
Analysis completed	N/A	N/A	N/A	27/02/2025	27/02/2025	-	-	-
Actinolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	0.001	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	Loose Fibres	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	11.8	8.2	7.5	8.5	8.1
Total Cyanide	mg/kg	1	MCERTS	4.8	11	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	4.8	11	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	700	350	89	37	91
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	349	174	44.6	18.6	45.5
Sulphide	mg/kg	1	MCERTS	100	25	< 1.0	7.1	130
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	270	37	150	25	22
Elemental Sulphur	mg/kg	5	MCERTS	280	320	< 5.0	< 5.0	< 5.0
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	4.3	1.3	< 0.5	< 0.5	< 0.5
Organic Matter	%	0.1	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	0.9	3.5	0.3	< 0.1	< 0.1
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	< 0.0010	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	2.4	4.9	1.4	0.5	0.3

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	0.29	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

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Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Lab Sample Number	462418	462419	462420	462421	462422
Sample Reference	MW25-22	MW25-24	MW25-24	MW25-24	DUP-11
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.40-4.00	0.40	1.50	6.20	None Supplied
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1442	1532	1548	1610	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	2	10	0.09	0.07	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.3	0.92	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.39	0.4	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.49	0.58	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	2.3	4.7	< 0.05	< 0.05	0.16
Anthracene	mg/kg	0.05	MCERTS	0.44	0.64	< 0.05	< 0.05	0.12
Fluoranthene	mg/kg	0.05	MCERTS	1.8	5.1	< 0.05	< 0.05	0.22
Pyrene	mg/kg	0.05	MCERTS	1.3	4.1	< 0.05	< 0.05	0.17
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.62	1.9	< 0.05	< 0.05	0.18
Chrysene	mg/kg	0.05	MCERTS	0.63	2.3	< 0.05	< 0.05	0.14
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.62	2.5	< 0.05	< 0.05	0.13
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.3	0.95	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.49	2.1	< 0.05	< 0.05	0.08
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.26	1.2	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.22	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.29	1.4	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	12.1	38.9	< 0.80	< 0.80	1.2
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.8	12	4.7	4	3.9
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	2.8	1.1	0.6	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.2	0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	20	14	7.4	5.9
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	36	11	8.8	9.9
Lead (aqua regia extractable)	mg/kg	1	MCERTS	77	96	8	5.1	4.9
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.4	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	16	10	8	7.6
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	92	36	35	34

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Lab Sample Number	462418	462419	462420	462421	462422
Sample Reference	MW25-22	MW25-24	MW25-24	MW25-24	DUP-11
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.40-4.00	0.40	1.50	6.20	None Supplied
Date Sampled	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1442	1532	1548	1610	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	14	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	220	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	280	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	120	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	630	-	-	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	0.053	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	0.037	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	0.15	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	5.2	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	100	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	160	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	44	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	310	-	-	-	-

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	-	71	< 10	< 10	< 10
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	-	-	-	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	0.048	0.024	< 0.005	< 0.005	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	0.036	0.019	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-

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Lab Sample Number				462418	462419	462420	462421	462422
Sample Reference				MW25-22	MW25-24	MW25-24	MW25-24	DUP-11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.40-4.00	0.40	1.50	6.20	None Supplied
Date Sampled				18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken				1442	1532	1548	1610	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	0.014	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	0.038	< 0.008	< 0.008	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	0.023	< 0.005	< 0.005	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Lab Sample Number				462418	462419	462420	462421	462422
Sample Reference				MW25-22	MW25-24	MW25-24	MW25-24	DUP-11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.40-4.00	0.40	1.50	6.20	None Supplied
Date Sampled				18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken				1442	1532	1548	1610	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

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

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

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

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
462400	MW25-22	0.50	130	Loose Fibres	Amosite & Chrysotile	0.001	0.001	10/03/2025	KJK
462419	MW25-24	0.40	146	Loose Fibres	Chrysotile	0.001	0.001	10/03/2025	KJK

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

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley

Your Order No: 415001-00017-00401

Lab Sample Number	462393	462397	462408	462411	462414
Sample Reference	MW25-20	MW25-21	VW25-17	VW25-18	MW25-23B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.00	0.30	0.25	1.00	4.70
Date Sampled	17/02/2025	17/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1317	1115	1405	1650	1210
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (automated)	pH Units	N/A	ISO 17025	8.1	8.9	7.5	8	7.2
Electrical Conductivity	µS/cm	10	ISO 17025	140	100	140	390	52
Total Cyanide	mg/l	0.01	ISO 17025	0.035	< 0.010	0.027	< 0.010	0.053
Complex Cyanide	mg/l	0.01	ISO 17025	0.035	< 0.0100	0.0274	< 0.0100	0.0532
Free Cyanide	mg/l	0.01	ISO 17025	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Thiocyanate as SCN	mg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	ISO 17025	33.9	4.72	14	125	25
Elemental Sulphur	mg/l	20	NONE	I/S ^{*1/5}	< 20	< 20	< 20	< 20
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	ISO 17025	3.3	5.5	19	27	5.9
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	< 0.015	0.086	0.36	4.2	0.82
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	6.9	18	11	6.2	5.9
Total Suspended Solids	mg/l	2	NONE	< 2.0	4.5	11.4	< 2.0	< 2.0

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylphenol & Dimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol (2,3,5-)	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	I/S ^{*1/5}	0.00032	0.00028	0.00847	0.00298
Acenaphthylene	mg/l	0.00001	NONE	I/S ^{*1/5}	0.00011	0.00007	0.00485	0.00691
Acenaphthene	mg/l	0.00001	NONE	I/S ^{*1/5}	0.00007	0.00007	0.00319	0.00614
Fluorene	mg/l	0.00001	NONE	I/S ^{*1/5}	0.00014	0.00008	0.00421	0.016
Phenanthrene	mg/l	0.00001	NONE	I/S ^{*1/5}	0.00027	0.00021	0.00249	0.01065
Anthracene	mg/l	0.00001	NONE	I/S ^{*1/5}	0.00006	< 0.00001	0.00065	0.00216
Fluoranthene	mg/l	0.00001	NONE	I/S ^{*1/5}	0.00013	0.00009	0.00056	0.00039
Pyrene	mg/l	0.00001	NONE	I/S ^{*1/5}	0.00011	0.00008	0.00036	0.00022
Benzo(a)anthracene	mg/l	0.00001	NONE	I/S ^{*1/5}	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	I/S ^{*1/5}	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	I/S ^{*1/5}	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	I/S ^{*1/5}	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	I/S ^{*1/5}	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	I/S ^{*1/5}	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	I/S ^{*1/5}	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	I/S ^{*1/5}	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	I/S ^{*1/5}	0.00122	0.00088	0.02478	0.04545
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Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley

Your Order No: 415001-00017-00401

Lab Sample Number	462393	462397	462408	462411	462414
Sample Reference	MW25-20	MW25-21	VW25-17	VW25-18	MW25-23B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.00	0.30	0.25	1.00	4.70
Date Sampled	17/02/2025	17/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Taken	1317	1115	1405	1650	1210
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.001	ISO 17025	0.004	0.007	< 0.001	< 0.001	< 0.001
Cadmium (dissolved)	mg/l	0.00008	ISO 17025	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Chromium (hexavalent)	mg/l	0.005	ISO 17025	< 0.005	U/S ^{U/S} ff	< 0.005	< 0.005	< 0.005
Chromium (dissolved)	mg/l	0.0004	ISO 17025	0.0014	0.0039	0.0036	0.0007	0.0012
Copper (dissolved)	mg/l	0.0007	ISO 17025	0.0027	0.0133	0.0099	0.0111	0.0101
Iron (dissolved)	mg/l	0.004	ISO 17025	0.36	1.9	1.3	0.56	0.76
Lead (dissolved)	mg/l	0.001	ISO 17025	0.01	0.003	< 0.001	0.002	< 0.001
Mercury (dissolved)	mg/l	0.0005	ISO 17025	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Nickel (dissolved)	mg/l	0.0003	ISO 17025	0.0024	0.0018	0.0018	0.0014	0.0016
Selenium (dissolved)	mg/l	0.004	ISO 17025	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zinc (dissolved)	mg/l	0.0004	ISO 17025	0.0079	0.0084	0.0074	0.0057	0.0092

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC35 ^{HS+EH, 2D, AL, #1, #2}	mg/l	0.01	NONE	-	-	-	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC6 ^{HS, 1D, AL}	mg/l	0.001	NONE	-	-	-	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 ^{HS, 1D, AL}	mg/l	0.001	NONE	-	-	-	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 ^{HS, 1D, AL}	mg/l	0.001	NONE	-	-	-	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12	mg/l	0.01	NONE	-	-	-	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16	mg/l	0.01	NONE	-	-	-	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21	mg/l	0.01	NONE	-	-	-	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35	mg/l	0.01	NONE	-	-	-	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC35 ^{HS+EH, 2D, AR, #1, #2}	mg/l	0.01	NONE	-	-	-	1.21	1.42
TPH - Aromatic >EC5 - EC7 ^{HS, 1D, AR}	mg/l	0.001	NONE	-	-	-	0.0058	< 0.0010
TPH - Aromatic >EC7 - EC8 ^{HS, 1D, AR}	mg/l	0.001	NONE	-	-	-	0.0038	0.0025
TPH - Aromatic >EC8 - EC10 ^{HS, 1D, AR}	mg/l	0.001	NONE	-	-	-	0.099	0.076
TPH - Aromatic >EC10 - EC12	mg/l	0.01	NONE	-	-	-	0.49	0.63
TPH - Aromatic >EC12 - EC16	mg/l	0.01	NONE	-	-	-	0.27	0.54
TPH - Aromatic >EC16 - EC21	mg/l	0.01	NONE	-	-	-	0.16	0.06
TPH - Aromatic >EC21 - EC35	mg/l	0.01	NONE	-	-	-	0.19	0.11

TPH (EC10 - EC40) ^{EH, 2D, TOTAL, #1, #2}	mg/l	0.01	NONE	0.12	0.13	0.07	-	-
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VOCs

Methyl-t-butyl ether (MTBE)	mg/l	0.003	NONE	-	-	-	< 0.003	< 0.003
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	0.005	< 0.001
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	0.002	0.002
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	0.057	0.02
P & m-Xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	0.002	0.02
O-Xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	0.006	0.029

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley

Your Order No: 415001-00017-00401

Lab Sample Number				462418	462419
Sample Reference				MW25-22	MW25-24
Sample Number				None Supplied	None Supplied
Water Matrix				N/A	N/A
Depth (m)				1.40-4.00	0.40
Date Sampled				18/02/2025	18/02/2025
Time Taken				1442	1532
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (automated)	pH Units	N/A	ISO 17025	10.5	8.1
Electrical Conductivity	µS/cm	10	ISO 17025	420	120
Total Cyanide	mg/l	0.01	ISO 17025	0.21	0.066
Complex Cyanide	mg/l	0.01	ISO 17025	0.2119	0.0661
Free Cyanide	mg/l	0.01	ISO 17025	< 0.010	< 0.010
Thiocyanate as SCN	mg/l	0.2	ISO 17025	< 0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	ISO 17025	140	9.36
Elemental Sulphur	mg/l	20	NONE	< 20	< 20
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005
Chloride	mg/l	0.15	ISO 17025	32	3.9
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	1.4	0.29
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	16	15
Total Suspended Solids	mg/l	2	NONE	< 2.0	< 2.0

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Ethylphenol & Dimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	0.2918	< 0.0005
Trimethylphenol (2,3,5-)	mg/l	0.0005	NONE	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	0.29	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	0.01989	0.00031
Acenaphthylene	mg/l	0.00001	NONE	0.00022	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	0.00576	0.00006
Fluorene	mg/l	0.00001	NONE	0.00253	0.00006
Phenanthrene	mg/l	0.00001	NONE	0.00532	0.00012
Anthracene	mg/l	0.00001	NONE	0.00127	0.00003
Fluoranthene	mg/l	0.00001	NONE	0.00077	0.0001
Pyrene	mg/l	0.00001	NONE	0.0004	0.0001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	0.00008
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	0.00013

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	0.03615	0.001
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Analytical Report Number: 25-008976
Project / Site name: Cadent Hickley

Your Order No: 415001-00017-00401

Lab Sample Number	462418	462419
Sample Reference	MW25-22	MW25-24
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	1.40-4.00	0.40
Date Sampled	18/02/2025	18/02/2025
Time Taken	1442	1532
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.001	ISO 17025	0.009	0.005
Cadmium (dissolved)	mg/l	0.00008	ISO 17025	< 0.00008	< 0.00008
Chromium (hexavalent)	mg/l	0.005	ISO 17025	< 0.005	< 0.005
Chromium (dissolved)	mg/l	0.0004	ISO 17025	0.0034	0.0023
Copper (dissolved)	mg/l	0.0007	ISO 17025	0.0148	0.0278
Iron (dissolved)	mg/l	0.004	ISO 17025	0.18	1.3
Lead (dissolved)	mg/l	0.001	ISO 17025	0.001	0.01
Mercury (dissolved)	mg/l	0.0005	ISO 17025	< 0.00050	< 0.00050
Nickel (dissolved)	mg/l	0.0003	ISO 17025	0.0023	0.0027
Selenium (dissolved)	mg/l	0.004	ISO 17025	< 0.004	< 0.004
Zinc (dissolved)	mg/l	0.0004	ISO 17025	0.0072	0.0146

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC35 _{HS+EH, 2D, AL, #1, #2}	mg/l	0.01	NONE	< 0.01	-
TPH - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aliphatic >EC10 - EC12	mg/l	0.01	NONE	< 0.01	-
TPH - Aliphatic >EC12 - EC16	mg/l	0.01	NONE	< 0.01	-
TPH - Aliphatic >EC16 - EC21	mg/l	0.01	NONE	< 0.01	-
TPH - Aliphatic >EC21 - EC35	mg/l	0.01	NONE	< 0.01	-

TPH - Aromatic >EC5 - EC35 _{HS+EH, 2D, AR, #1, #2}	mg/l	0.01	NONE	1.08	-
TPH - Aromatic >EC5 - EC7 _{HS, 1D, AR}	mg/l	0.001	NONE	0.0041	-
TPH - Aromatic >EC7 - EC8 _{HS, 1D, AR}	mg/l	0.001	NONE	0.0038	-
TPH - Aromatic >EC8 - EC10 _{HS, 1D, AR}	mg/l	0.001	NONE	0.011	-
TPH - Aromatic >EC10 - EC12	mg/l	0.01	NONE	0.44	-
TPH - Aromatic >EC12 - EC16	mg/l	0.01	NONE	0.22	-
TPH - Aromatic >EC16 - EC21	mg/l	0.01	NONE	0.18	-
TPH - Aromatic >EC21 - EC35	mg/l	0.01	NONE	0.22	-

TPH (EC10 - EC40) _{EH, 2D, TOTAL, #1, #2}	mg/l	0.01	NONE	-	0.05
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VOCs

Methyl-t-butyl ether (MTBE)	mg/l	0.003	NONE	< 0.003	-
Benzene	mg/l	0.001	NONE	0.004	< 0.001
Toluene	mg/l	0.001	NONE	0.004	< 0.001
Ethylbenzene	mg/l	0.001	NONE	0.001	< 0.001
P & m-Xylene	mg/l	0.001	NONE	0.003	< 0.001
O-Xylene	mg/l	0.001	NONE	0.003	< 0.001

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-008976
Project / Site name: Cadent Hickley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
462393	MW25-20	None Supplied	1	Brown sand with gravel and stones
462394	MW25-20	None Supplied	5.4	Brown sand
462395	MW25-20	None Supplied	9.9	Brown sand
462396	DUP-9	None Supplied	None Supplied	Brown sand
462397	MW25-21	None Supplied	0.3	Brown sand with stones
462398	MW25-21	None Supplied	2	Brown sand
462399	MW25-21	None Supplied	5.2	Brown sand
462400	MW25-22	None Supplied	0.5	Brown loam and clay with gravel and stones
462401	MW25-22	None Supplied	1	Brown loam and clay with gravel and stones
462402	DUP-8	None Supplied	None Supplied	Brown sand
462403	VW25-14	None Supplied	1	Brown gravelly sand with stones
462404	VW25-15	None Supplied	0.25	Brown clay and loam with gravel and vegetation
462405	VW25-15	None Supplied	0.75	Brown loam and sand with vegetation and stones
462406	VW25-16A	None Supplied	0.25	Brown sand with gravel
462407	VW25-16A	None Supplied	0.5	Brown clay and sand with gravel
462408	VW25-17	None Supplied	0.25	Brown loam and clay with gravel and vegetation
462409	VW25-17	None Supplied	1	Brown clay with gravel
462410	VW25-18	None Supplied	0.3	Brown loam and sand with brick and vegetation
462411	VW25-18	None Supplied	1	Brown clay and sand with gravel and oil / petroleum
462412	MW25-23B	None Supplied	0.8	Brown loam and clay with gravel and vegetation
462413	MW25-23B	None Supplied	2.6	Brown clay and sand with gravel
462414	MW25-23B	None Supplied	4.7	Brown sand
462415	MW25-23B	None Supplied	7.5	Brown sand with gravel and oil / petroleum
462416	MW25-23B	None Supplied	10.1	Brown clay and sand
462417	DUP-10	None Supplied	None Supplied	Brown sand
462418	MW25-22	None Supplied	1.40-4.00	Brown sandy loam with vegetation and stones
462419	MW25-24	None Supplied	0.4	Brown loam and clay with gravel and vegetation
462420	MW25-24	None Supplied	1.5	Brown clay and sand with gravel
462421	MW25-24	None Supplied	6.2	Brown sand
462422	DUP-11	None Supplied	None Supplied	Brown sand with gravel

Analytical Report Number : 25-008976

Project / Site name: Cadent Hickley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in leachate	Determination of elemental sulphur in leachate by extraction in dichloromethane followed by GC-MS	In-house method: Sample is extracted in dichloromethane prior to analysis by GC-MS	L021B	W	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
Phenols, speciated, in soil, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	D	MCERTS
Electrical conductivity at 20°C of leachate	Determination of electrical conductivity in leachate by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Dissolved Organic Carbon in leachate	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS

Analytical Report Number : 25-008976

Project / Site name: Cadent Hickley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chloride in leachate	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
Exchangeable Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Thiocyanate in leachate	Determination of thiocyanate in water by discrete analyser (colorimetry)	In-house method based on SMWW 4500-CN-M	L082B	W	ISO 17025
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer)	In-house method	L082B	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
pH at 20°C in leachate (automated)	Determination of pH in leachate by electrometric measurement	In-house method	L099-PL	W	ISO 17025

Analytical Report Number : 25-008976

Project / Site name: Cadent Hickley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and/or Volatile organic compounds in leachate	Determination of volatile organic compounds in leachate by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in leachate	SVOCs and PAHs in leachate	In-house method	L102B		NONE
Complex cyanide in leachate	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Free cyanide in leachate	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Total cyanide in leachate	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Ammonium as NH ₄ in leachate	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080-PL	W	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Sulphide in leachate	Determination of sulphide in leachate by ion selective electrode	In-house method	L029-PL	W	NONE
Phenols, speciated, in leachate, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	W	NONE
Total petroleum hydrocarbons with carbon banding by GC-MS/GC-MS HS in leachate	Determination of total petroleum hydrocarbons in leachate by GC-MS/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L070B/L088-PL	W	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with Iron (II) sulphate	In-house method	L009B	D	MCERTS
Suspended Solids in leachate	Determination of Settleable Solids by gravimetry	In-house method	L004B	W	NONE
Total petroleum hydrocarbons with carbon banding by GCxGC-FID	Determination of total petroleum hydrocarbons in leachate by GC x GC FID with carbon banding aliphatic and aromatic C10-C35	In-house method	L101B	W	NONE

Analytical Report Number : 25-008976

Project / Site name: Cadent Hickley

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Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons in leachate	Determination of total petroleum hydrocarbons in leachate by GC x GC FID	In-house method	L101B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*U/S f - Unsuitable for analysis due to sample matrix. - Very contaminated sample

*U/S ff - Unsuitable for analysis due to sample matrix - Matrix interference - sample was yellow

*U/S - Unsuitable for analysis due to sample matrix.

\$\$ - Result was reported from high dilution. The result should be interpreted with caution.

*j - Due to sample matrix, results for TOC and Loss on Ignition do not agree.

\$\$ - Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.

&+ - Result is above calibration range after the maximum dilution has been applied. The result should be considered the minimum value. The actual result could be significantly higher. This result is not accredited.

*I/S - Insufficient sample for analysis.

Analytical Report Number : 25-008976

Project / Site name: Cadent Hickley

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
DUP-10	N/A	S	462417	c	Sulphide in soil	L010-PL	c
DUP-11	N/A	S	462422	c	Sulphide in soil	L010-PL	c
DUP-8	N/A	S	462402	c	Sulphide in soil	L010-PL	c
DUP-9	N/A	S	462396	c	Sulphide in soil	L010-PL	c
MW25-20	N/A	S	462393	c	Sulphide in soil	L010-PL	c
MW25-20	N/A	S	462394	c	Sulphide in soil	L010-PL	c
MW25-20	N/A	S	462395	c	Sulphide in soil	L010-PL	c
MW25-21	N/A	S	462397	c	Sulphide in soil	L010-PL	c
MW25-21	N/A	S	462398	c	Sulphide in soil	L010-PL	c
MW25-21	N/A	S	462399	c	Sulphide in soil	L010-PL	c
MW25-22	N/A	S	462400	c	Sulphide in soil	L010-PL	c
MW25-22	N/A	S	462401	c	Sulphide in soil	L010-PL	c
MW25-22	N/A	S	462418	c	Sulphide in soil	L010-PL	c
MW25-23B	N/A	S	462412	c	Sulphide in soil	L010-PL	c
MW25-23B	N/A	S	462413	c	Sulphide in soil	L010-PL	c
MW25-23B	N/A	S	462414	c	Sulphide in soil	L010-PL	c
MW25-23B	N/A	S	462415	c	Sulphide in soil	L010-PL	c
MW25-23B	N/A	S	462416	c	Sulphide in soil	L010-PL	c
MW25-24	N/A	S	462419	c	Sulphide in soil	L010-PL	c
MW25-24	N/A	S	462420	c	Sulphide in soil	L010-PL	c
MW25-24	N/A	S	462421	c	Sulphide in soil	L010-PL	c
VW25-14	N/A	S	462403	c	Sulphide in soil	L010-PL	c
VW25-15	N/A	S	462404	bc	BTEX and/or Volatile organic compounds in soil	L073B	b
VW25-15	N/A	S	462404	bc	Phenols, speciated, in soil, by HPLC	L030-PL	b
VW25-15	N/A	S	462404	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	b
VW25-15	N/A	S	462404	bc	Sulphide in soil	L010-PL	c
VW25-15	N/A	S	462404	bc	Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	L076B/L088-PL	b
VW25-15	N/A	S	462405	c	Sulphide in soil	L010-PL	c
VW25-16A	N/A	S	462406	c	Sulphide in soil	L010-PL	c
VW25-16A	N/A	S	462407	c	Sulphide in soil	L010-PL	c
VW25-17	N/A	S	462408	c	Sulphide in soil	L010-PL	c
VW25-17	N/A	S	462409	c	Sulphide in soil	L010-PL	c
VW25-18	N/A	S	462410	c	Sulphide in soil	L010-PL	c
VW25-18	N/A	S	462411	c	Sulphide in soil	L010-PL	c

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
ingrid.laubscher@worley.com

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 : 25-009497

Replaces Analytical Report Number: 25-009497, issue no. 1

Additional analysis undertaken.

Asbestos Quantification added to samples 464920 & 464933 as per clients request

Project / Site name:	Cadent Hinckley	Samples received on:	25/02/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	26/02/2025
Your order number:	415001-00017_00401	Analysis completed by:	25/03/2025
Report Issue Number:	2	Report issued on:	25/03/2025
Samples Analysed:	25 soil samples - 5 leachate samples		

Signed:



Matthew O'Connell
Key Account 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
air - once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.

Some records may be kept for longer according to other legal/best practice requirements.

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: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464917	464918	464919	464920	464921
Sample Reference	MW25-27	MW25-27	DUP-14	MW25-29	MW25-29
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	7.60	9.30	None Supplied	0.30	3.80
Date Sampled	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken	0955	0957	None Supplied	1507	1557
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	40.7	< 0.1
Moisture Content	%	0.01	NONE	20	17	18	11	15
Total mass of sample received	kg	0.1	NONE	0.7	0.8	0.7	0.8	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	Detected	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	DBU	-
Analysis completed	N/A	N/A	N/A	-	-	-	04/03/2025	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	Detected	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	< 0.001	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.7	8.6	8.5	7.5	8.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.2	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.2	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	210	79	100	1800	190
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	104	39.7	50	909	96.7
Sulphide	mg/kg	1	MCERTS	17	57	50	3.7	22
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	19	39	36	11	40
Elemental Sulphur	mg/kg	5	MCERTS	100	150	180	14	110
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	24	81	85	< 0.5	270 ^{SS}
Organic Matter (automated)	%	0.1	MCERTS	5.8	0.3	< 0.1	0.9	0.3
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	0.0019	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	19	0.8	0.7	1.7	1

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	0.39	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	3.7	< 0.40	< 0.40	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	4.1	< 1.4	< 1.4	< 1.4	< 1.4
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Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464917	464918	464919	464920	464921
Sample Reference	MW25-27	MW25-27	DUP-14	MW25-29	MW25-29
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	7.60	9.30	None Supplied	0.30	3.80
Date Sampled	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken	0955	0957	None Supplied	1507	1557
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	380	3.5	1.8	0.2	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.47	< 0.05	< 0.05	0.17	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	3.3	0.17	0.06	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.54	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	2.2	0.1	< 0.05	0.73	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.54	< 0.05	< 0.05	0.21	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.2	< 0.05	< 0.05	1.7	< 0.05
Pyrene	mg/kg	0.05	MCERTS	1.1	< 0.05	< 0.05	1.6	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.53	< 0.05	< 0.05	1	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.57	< 0.05	< 0.05	1.2	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.44	< 0.05	< 0.05	1.7	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.19	< 0.05	< 0.05	0.54	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05	1.3	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.14	< 0.05	< 0.05	0.8	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.22	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.2	< 0.05	< 0.05	0.98	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	395	3.73	1.84	12.4	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.9	2.8	2.7	41	6.7
Boron (water soluble)	mg/kg	0.2	MCERTS	3.3	0.7	0.6	4.2	1.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.9	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	10	8.5	8.5	28	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	24	8.6	38	64	39
Lead (aqua regia extractable)	mg/kg	1	MCERTS	14	5.6	4.9	68	9.4
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	8.9	9	25	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	4.6	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	35	26	36	100	46

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464917	464918	464919	464920	464921
Sample Reference	MW25-27	MW25-27	DUP-14	MW25-29	MW25-29
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	7.60	9.30	None Supplied	0.30	3.80
Date Sampled	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken	0955	0957	None Supplied	1507	1557
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	0.19	-	-	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	14	-	-	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	8.6	-	-	-	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	-	-	-	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	22	-	-	-	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	6.2 %	-	-	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	0.51	-	-	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	29 %	-	-	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	33	-	-	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	6.9	-	-	-	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	-	-	-	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	-	-	-	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	75	-	-	-	< 10

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	-	12	< 10	< 10	-
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	-	-	-	< 0.005
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	6.3 %	0.026	0.19	< 0.005	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	0.41	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				464917	464918	464919	464920	464921
Sample Reference				MW25-27	MW25-27	DUP-14	MW25-29	MW25-29
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				7.60	9.30	None Supplied	0.30	3.80
Date Sampled				20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken				0955	0957	None Supplied	1507	1557
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	9.2 %	0.065	0.094	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	8.5 %	0.033	0.045	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	8.2 %	0.051	0.089	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Miscellaneous Organics								
Coal Tar		N/A	NONE	-	-	-	-	-
Total Residue	mg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464922	464923	464924	464925	464926
Sample Reference	MW25-29	MW25-29	MW25-28A	MW25-28A	MW25-28A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	8.45	10.30	0.00	0.60	8.00
Date Sampled	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken	1620	1650	0920	0924	1440
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	16	2.7	18	20
Total mass of sample received	kg	0.1	NONE	0.7	0.8	0.9	1	1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	DSA	-
Analysis completed	N/A	N/A	N/A	-	-	-	04/03/2025	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.3	8.2	-	8.3	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	1.1	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	1.1	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	-	7.8	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	70	210	-	120	49
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	35.1	103	-	60.4	24.3
Sulphide	mg/kg	1	MCERTS	59	160	-	75	2.2
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	20	39	-	340	5.6
Elemental Sulphur	mg/kg	5	MCERTS	130	11	-	82	< 5.0
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	51	33	-	5.2	< 0.5
Organic Matter (automated)	%	0.1	MCERTS	< 0.1	2.5	-	1.3	< 0.1
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	0.014	-	-	< 0.0010
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.7	3.3	-	3.3	< 0.2

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	-	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	-	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	-	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	-	< 1.4	< 1.4
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Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				464922	464923	464924	464925	464926
Sample Reference				MW25-29	MW25-29	MW25-28A	MW25-28A	MW25-28A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				8.45	10.30	0.00	0.60	8.00
Date Sampled				20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken				1620	1650	0920	0924	1440
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	5.3	0.26	< 0.05	0.08	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.1	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.4	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.26	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.81	0.12	0.21	0.54	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.14	< 0.05	< 0.05	0.1	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.2	0.1	0.23	1.1	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.31	0.09	0.21	0.88	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.12	0.06	< 0.05	0.61	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.12	< 0.05	< 0.05	0.62	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	0.76	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	0.28	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.56	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.3	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.08	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.36	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	7.78	< 0.80	< 0.80	6.23	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.4	11	-	16	2.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	1.6	-	1.9	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	0.4	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	-	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	6.8	39	-	49	4.2
Copper (aqua regia extractable)	mg/kg	1	MCERTS	37	48	-	39	6.3
Lead (aqua regia extractable)	mg/kg	1	MCERTS	4.5	35	-	2100	6.6
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	7.2	32	-	55	4.9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	33	74	-	120	20

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464922	464923	464924	464925	464926
Sample Reference	MW25-29	MW25-29	MW25-28A	MW25-28A	MW25-28A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	8.45	10.30	0.00	0.60	8.00
Date Sampled	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken	1620	1650	0920	0924	1440
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.01	MCERTS	< 0.010	-	-	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.01	MCERTS	< 0.010	-	-	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.01	MCERTS	< 0.010	-	-	0.026	-
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	-
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	4.1	-	-	< 2.0	-
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	-
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	-
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_ID_AL	mg/kg	10	NONE	< 10	-	-	< 10	-

TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	2.8	-	-	0.012	-
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	0.094	-	-	< 0.010	-
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	1.9	-	-	< 0.020	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	1.8	-	-	< 1.0	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	5	-	-	< 2.0	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	-	-	< 10	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	-	-	< 10	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	12	-	-	< 10	-

TPH (EC10 - EC40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	-	< 10	-	-	< 10
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	-	-	< 0.005	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	2.9	0.078	-	0.012	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	0.064	< 0.005	-	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				464922	464923	464924	464925	464926
Sample Reference				MW25-29	MW25-29	MW25-28A	MW25-28A	MW25-28A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				8.45	10.30	0.00	0.60	8.00
Date Sampled				20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken				1620	1650	0920	0924	1440
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	0.5	< 0.005	-	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	0.41	< 0.008	-	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	0.74	< 0.005	-	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Miscellaneous Organics								
Coal Tar		N/A	NONE	-	-	Not Identified	-	-
Total Residue	mg/kg	10	NONE	-	-	4700	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464927	464928	464929	464930	464931
Sample Reference	DUP 15	VW25-22	VW25-23	VW25-23	VW25-24
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	0.35	0.01	0.25	0.15
Date Sampled	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken	None Supplied	1145	1400	1410	1615
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	70.5	< 0.1	61.8	< 0.1
Moisture Content	%	0.01	NONE	20	5.1	2	9.8	26
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.7	0.8	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	DSA
Analysis completed	N/A	N/A	N/A	-	-	-	-	04/03/2025
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.5	11.2	-	11.1	7.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	-	< 5.0	26
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	42	110	-	190	210
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	20.8	57.2	-	95.7	104
Sulphide	mg/kg	1	MCERTS	3.2	< 1.0	-	4.7	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	5.7	24	-	41	37
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	10	-	19	13
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	< 0.5	-	< 0.5	82
Organic Matter (automated)	%	0.1	MCERTS	< 0.1	0.3	-	0.8	6.3
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	0.2	-	0.5	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	< 0.2	1	-	5.6	8

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	-	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	-	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	-	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	-	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	-	< 1.4	< 1.4
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Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				464927	464928	464929	464930	464931
Sample Reference				DUP 15	VW25-22	VW25-23	VW25-23	VW25-24
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	0.35	0.01	0.25	0.15
Date Sampled				20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken				None Supplied	1145	1400	1410	1615
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.05	< 0.05	0.23	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.1	0.48	0.2	0.23
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.13	0.71	0.26	0.56
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.13	0.77	0.24	0.51
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.08	< 0.05	0.18	0.26
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.08	< 0.05	0.16	0.33
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.13	< 0.05	0.18	0.41
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	0.08	0.14
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.13	< 0.05	0.12	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.08	< 0.05	< 0.05	0.17
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.1	< 0.05	< 0.05	0.19

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	1.01	1.95	1.65	3.15
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	3.1	13	-	10	5.8
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.6	-	1	5.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	0.4	0.3
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	-	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	3.7	16	-	26	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	8.1	14	-	25	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	4.7	11	-	27	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	4.7	13	-	22	9.9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	1.2	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	19	73	-	130	58

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Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464927	464928	464929	464930	464931
Sample Reference	DUP 15	VW25-22	VW25-23	VW25-23	VW25-24
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	0.35	0.01	0.25	0.15
Date Sampled	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken	None Supplied	1145	1400	1410	1615
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	-	-	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	-	-	-	-

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10	-	72	16
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	-	< 0.005	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	-	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				464927	464928	464929	464930	464931
Sample Reference				DUP 15	VW25-22	VW25-23	VW25-23	VW25-24
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	0.35	0.01	0.25	0.15
Date Sampled				20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Taken				None Supplied	1145	1400	1410	1615
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	-	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	-	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	-	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Miscellaneous Organics								
Coal Tar		N/A	NONE	-	-	Not Identified	-	-
Total Residue	mg/kg	10	NONE	-	-	13000	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464932	464933	464934	464935	464936
Sample Reference	VW25-24	VW25-25	VW25-25	HP25-03	HP25-04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.20	0.80	0.20	0.25
Date Sampled	20/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken	1625	1030	1040	1100	1130
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	61	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	15	13	18	17
Total mass of sample received	kg	0.1	NONE	0.7	0.8	0.8	0.1	0.1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Detected	-	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	-	DSA	-	SPU	SPU
Analysis completed	N/A	N/A	N/A	-	04/03/2025	-	07/03/2025	07/03/2025
Actinolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	< 0.001	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	Loose Fibres	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	10.9	8	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	5.8	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	5.8	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	110	280	66	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	54.3	138	33.2	-	-
Sulphide	mg/kg	1	MCERTS	2.3	3.9	1.8	< 1.0	4
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	30	120	5.3	6.9	2.6
Elemental Sulphur	mg/kg	5	MCERTS	10	12	< 5.0	< 5.0	< 5.0
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Organic Matter (automated)	%	0.1	MCERTS	1	2.9	0.4	4.8	3.1
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6	1.7	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	1.9	4.3	1.3	6.1	4.6

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
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Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464932	464933	464934	464935	464936
Sample Reference	VW25-24	VW25-25	VW25-25	HP25-03	HP25-04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.20	0.80	0.20	0.25
Date Sampled	20/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken	1625	1030	1040	1100	1130
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.06	0.31	< 0.05	0.06	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.18	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.2	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.06	2.3	< 0.05	0.06	0.13
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.57	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.09	3.8	< 0.05	0.13	0.57
Pyrene	mg/kg	0.05	MCERTS	0.07	3.2	< 0.05	0.12	0.49
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	2.1	< 0.05	0.07	0.19
Chrysene	mg/kg	0.05	MCERTS	< 0.05	2	< 0.05	0.07	0.26
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.05	2.5	< 0.05	0.14	0.28
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.87	< 0.05	< 0.05	0.12
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	1.9	< 0.05	0.12	0.21
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	1	< 0.05	0.05	0.11
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.31	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	1.2	< 0.05	0.07	0.14

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	22.5	< 0.80	0.89	2.49
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	26	23	7	13	19
Boron (water soluble)	mg/kg	0.2	MCERTS	1.5	1.7	1.8	1.8	1.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	35	18	22	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	8.4	67	14	30	28
Lead (aqua regia extractable)	mg/kg	1	MCERTS	48	81	17	130	110
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	35	14	18	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	41	120	46	69	120

Analytical Report Number: 25-009497
 Project / Site name: Cadent Hinckley
 Your Order No: 415001-00017_00401

Lab Sample Number	464932	464933	464934	464935	464936
Sample Reference	VW25-24	VW25-25	VW25-25	HP25-03	HP25-04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.20	0.80	0.20	0.25
Date Sampled	20/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken	1625	1030	1040	1100	1130
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	-	-	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	-	-	-	-

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	22	< 10	< 10	< 10
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				464932	464933	464934	464935	464936
Sample Reference				VW25-24	VW25-25	VW25-25	HP25-03	HP25-04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.50	0.20	0.80	0.20	0.25
Date Sampled				20/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken				1625	1030	1040	1100	1130
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Miscellaneous Organics								
Coal Tar		N/A	NONE	-	-	-	-	-
Total Residue	mg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464937	464938	464939	464940	464941
Sample Reference	MW25-31A	MW25-31A	MW25-31A	MW25-30B	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.15	1.30	2.00	1.20	2.20
Date Sampled	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken	1140	1145	1150	1250	1328
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	20.8	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.7	21	14	13	17
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.7	0.8	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	-	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	JSW	-	-	JSW	-
Analysis completed	N/A	N/A	N/A	04/03/2025	-	-	04/03/2025	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.8	9.4	8.3	8.4	8.9
Total Cyanide	mg/kg	1	MCERTS	5.3	6.9	< 1.0	< 1.0	1.5
Complex Cyanide	mg/kg	1	MCERTS	5.3	6.9	< 1.0	< 1.0	1.5
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	140	580	250	150	2300
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	68.9	291	127	73.5	1130
Sulphide	mg/kg	1	MCERTS	1.6	39	12	4.6	58
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	4.6	24	19	4.5	55
Elemental Sulphur	mg/kg	5	MCERTS	12	60	11	15	100
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Organic Matter (automated)	%	0.1	MCERTS	0.3	0.3	0.6	1	2.3
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	0.0035	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.7	1.1	2	1.7	3

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
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Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	464937	464938	464939	464940	464941
Sample Reference	MW25-31A	MW25-31A	MW25-31A	MW25-30B	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.15	1.30	2.00	1.20	2.20
Date Sampled	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken	1140	1145	1150	1250	1328
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.28	0.49	0.39	1.5	38
Acenaphthylene	mg/kg	0.05	MCERTS	0.11	< 0.05	0.08	0.78	16
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.1	0.06	0.2	4.9
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.06	0.07	0.46	18
Phenanthrene	mg/kg	0.05	MCERTS	0.24	0.53	0.28	2.3	48
Anthracene	mg/kg	0.05	MCERTS	0.06	0.15	0.06	0.6	13
Fluoranthene	mg/kg	0.05	MCERTS	0.43	0.63	0.12	2.6	24
Pyrene	mg/kg	0.05	MCERTS	0.4	0.49	0.15	2.5	27
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.35	0.28	0.06	1.3	12
Chrysene	mg/kg	0.05	MCERTS	0.34	0.33	0.09	1.4	11
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.53	0.32	< 0.05	1.8	10
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.22	0.18	< 0.05	0.64	3.8
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.47	0.33	< 0.05	1.5	10
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.28	0.18	< 0.05	0.92	4.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	0.23	0.96
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.34	0.21	< 0.05	1.1	4.7

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	4.14	4.3	1.38	19.7	247
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	12	14	15	19
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	1.5	1.7	1	6.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	1.6	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	31	28	22	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	62	44	54	64
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	160	15	51	85
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	21	26	24	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	68	110	62	87	140

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Project / Site name: Cadent Hinckley
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Lab Sample Number	464937	464938	464939	464940	464941
Sample Reference	MW25-31A	MW25-31A	MW25-31A	MW25-30B	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.15	1.30	2.00	1.20	2.20
Date Sampled	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken	1140	1145	1150	1250	1328
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	-	< 1.0	-	-	8.3
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	-	3.4	-	-	61
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	11	-	-	51
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	38	-	-	50
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	52	-	-	170

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	2.9
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	7 [%]
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	< 0.020	-	-	22
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	-	< 1.0	-	-	26
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	-	< 2.0	-	-	150
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	< 10	-	-	160
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	11	-	-	70
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	11	-	-	440

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	20	-	< 10	31	-
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-	< 0.0050
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	< 0.005	-	-	< 0.005
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-	< 0.0050
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-	< 0.0070
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Benzene	mg/kg	0.005	MCERTS	< 0.005	0.008	< 0.005	< 0.005	2.9
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-	< 0.0060
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-	< 0.010
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-	< 0.010
Toluene	mg/kg	0.005	MCERTS	< 0.005	0.008	< 0.005	< 0.005	7.2 [%]
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-	< 0.0060
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050

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Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				464937	464938	464939	464940	464941
Sample Reference				MW25-31A	MW25-31A	MW25-31A	MW25-30B	MW25-30B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.15	1.30	2.00	1.20	2.20
Date Sampled				21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken				1140	1145	1150	1250	1328
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	6.1 % ^{9%}
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	14 % ^{9%}
Styrene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	5.1 % ^{9%}
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	0.075
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-	< 0.0050
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	0.19
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	1.6
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	4.1
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-	0.055
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-	< 0.0080
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	< 0.0050
Miscellaneous Organics								
Coal Tar		N/A	NONE	-	-	-	-	-
Total Residue	mg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

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

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

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

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
464920	MW25-29	0.30	140	Loose Fibres	Amosite	< 0.001	< 0.001	25/03/2025	DBU
464933	VW25-25	0.20	138	Loose Fibres	Chrysotile	< 0.001	< 0.001	25/03/2025	DSA

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

Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017_00401

Lab Sample Number	464920	464925	464933	464938	464941
Sample Reference	MW25-29	MW25-28A	VW25-25	MW25-31A	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.60	0.20	1.30	2.20
Date Sampled	20/02/2025	20/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken	1507	0924	1030	1145	1328
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (automated)	pH Units	N/A	ISO 17025	8.5	8.4	8.2	9.7	9.7
Electrical Conductivity	µS/cm	10	ISO 17025	410	360	180	170	420
Total Cyanide	mg/l	0.01	ISO 17025	0.057	0.021	0.21	0.081	0.33
Complex Cyanide	mg/l	0.01	ISO 17025	0.0566	0.0215	0.2085	0.0805	0.3302
Free Cyanide	mg/l	0.01	ISO 17025	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Thiocyanate as SCN	mg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	ISO 17025	163	21.8	17	46.7	236
Elemental Sulphur	mg/l	20	NONE	< 20	< 20	< 20	< 20	< 20
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	ISO 17025	1.7	36	14	2	19
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	< 0.015	0.54	< 0.015	0.62	1.7
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	4.6	37	17	4.8	13
Total Suspended Solids	mg/l	2	NONE	4.3	11.2	< 2.0	4.3	17.7

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylphenol & Dimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol (2,3,5-)	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00012	0.00046	0.71
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.0795
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.01456
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00005	< 0.00001	0.0203
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00014	< 0.00001	0.015
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00316
Pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00305
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.0008
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.0007
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00053
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00021
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00061
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00017
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	< 0.00016	0.00032	0.00046	0.84858
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Analytical Report Number: 25-009497
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017_00401

Lab Sample Number	464920	464925	464933	464938	464941
Sample Reference	MW25-29	MW25-28A	VW25-25	MW25-31A	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.60	0.20	1.30	2.20
Date Sampled	20/02/2025	20/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Taken	1507	0924	1030	1145	1328
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.001	ISO 17025	0.055	< 0.001	0.022	0.006	0.022
Cadmium (dissolved)	mg/l	0.00008	ISO 17025	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Chromium (hexavalent)	mg/l	0.005	ISO 17025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium (dissolved)	mg/l	0.0004	ISO 17025	0.0015	0.0013	0.0029	0.002	0.0014
Copper (dissolved)	mg/l	0.0007	ISO 17025	< 0.0007	0.011	0.0089	0.002	0.0148
Iron (dissolved)	mg/l	0.004	ISO 17025	0.046	1.4	0.72	0.42	0.12
Lead (dissolved)	mg/l	0.001	ISO 17025	< 0.001	0.015	0.005	0.003	< 0.001
Mercury (dissolved)	mg/l	0.0005	ISO 17025	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Nickel (dissolved)	mg/l	0.0003	ISO 17025	< 0.0003	0.004	0.0013	0.0003	0.002
Selenium (dissolved)	mg/l	0.004	ISO 17025	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zinc (dissolved)	mg/l	0.0004	ISO 17025	< 0.0004	0.0031	0.0266	0.0018	< 0.0004

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC35 _{HS+EH, 2D, AL, #1, #2}	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/l	0.001	NONE	-	< 0.0010	-	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/l	0.001	NONE	-	< 0.0010	-	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/l	0.001	NONE	-	< 0.0010	-	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC35 _{HS+EH, 2D, AR, #1, #2}	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	4.74
TPH - Aromatic >EC5 - EC7 _{HS, 1D, AR}	mg/l	0.001	NONE	-	< 0.0010	-	< 0.0010	0.064
TPH - Aromatic >EC7 - EC8 _{HS, 1D, AR}	mg/l	0.001	NONE	-	< 0.0010	-	< 0.0010	0.15
TPH - Aromatic >EC8 - EC10 _{HS, 1D, AR}	mg/l	0.001	NONE	-	< 0.0010	-	< 0.0010	0.37
TPH - Aromatic >EC10 - EC12	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	2.44
TPH - Aromatic >EC12 - EC16	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	1.12
TPH - Aromatic >EC16 - EC21	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	0.28
TPH - Aromatic >EC21 - EC35	mg/l	0.01	NONE	-	< 0.01	-	< 0.01	0.31

TPH (EC10 - EC40) _{EH, 2D, TOTAL, #1, #2}	mg/l	0.01	NONE	< 0.01	-	< 0.01	-	-
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VOCs

Methyl-t-butyl ether (MTBE)	mg/l	0.003	NONE	-	< 0.003	-	< 0.003	< 0.003
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.063
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.15
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.087
P & m-Xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.15
O-Xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.11

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-009497

Project / Site name: Cadent Hinckley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
464917	MW25-27	None Supplied	7.6	Brown clay and sand with gravel
464918	MW25-27	None Supplied	9.3	Brown sand
464919	DUP-14	None Supplied	None Supplied	Brown sand
464920	MW25-29	None Supplied	0.3	Brown clay and sand with gravel and stones
464921	MW25-29	None Supplied	3.8	Brown clay and sand with gravel
464922	MW25-29	None Supplied	8.45	Brown sand with gravel
464923	MW25-29	None Supplied	10.3	Brown clay
464924	MW25-28A	None Supplied	0	Non Soil. ⁹
464925	MW25-28A	None Supplied	0.6	Brown clay and sand with gravel
464926	MW25-28A	None Supplied	8	Brown sand with gravel
464927	DUP 15	None Supplied	None Supplied	Brown sand with gravel
464928	VW25-22	None Supplied	0.35	Brown clay and sand with gravel and stones
464929	VW25-23	None Supplied	0.01	Non Soil. ⁹
464930	MW25-23	None Supplied	0.25	Brown clay and sand with gravel and stones
464931	VW25-24	None Supplied	0.15	Brown loam and sand with gravel and vegetation
464932	VW25-24	None Supplied	0.5	Brown clay and loam with gravel and vegetation
464933	VW25-25	None Supplied	0.2	Brown sand with gravel and stones
464934	MW25-25	None Supplied	0.8	Brown clay and sand with gravel
464935	HP25-03	None Supplied	0.2	Brown loam and clay with gravel and vegetation
464936	HP25-04	None Supplied	0.25	Brown loam and clay with gravel and vegetation
464937	MW25-31A	None Supplied	0.15	Brown clay and sand with gravel
464938	MW25-31A	None Supplied	1.3	Brown sand with gravel and stones
464939	MW25-31A	None Supplied	2	Brown clay with gravel
464940	MW25-30B	None Supplied	1.2	Brown clay with gravel
464941	MW25-30B	None Supplied	2.2	Brown clay with gravel

Analytical Report Number : 25-009497

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in leachate	Determination of elemental sulphur in leachate by extraction in dichloromethane followed by GC-MS	In-house method: Sample is extracted in dichloromethane prior to analysis by GC-MS	L021B	W	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Phenols, speciated, in soil, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	D	MCERTS
Electrical conductivity at 20°C of leachate	Determination of electrical conductivity in leachate by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Dissolved Organic Carbon in leachate	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS

Analytical Report Number : 25-009497

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Coal Tar in soil	In-house method by GC-MS, by calculation of discrete polyaromatic content	In-house method by calculation	L064B	D	NONE
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chloride in leachate	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
Exchangeable Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Thiocyanate in leachate	Determination of thiocyanate in water by discrete analyser (colorimetry)	In-house method based on SMWW 4500-CN-M	L082B	W	ISO 17025
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer)	In-house method	L082B	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
pH at 20°C in leachate (automated)	Determination of pH in leachate by electrometric measurement	In-house method	L099-PL	W	ISO 17025

Analytical Report Number : 25-009497

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and/or Volatile organic compounds in leachate	Determination of volatile organic compounds in leachate by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in leachate	SVOCs and PAHs in leachate	In-house method	L102B		NONE
Complex cyanide in leachate	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Free cyanide in leachate	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Total cyanide in leachate	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Ammonium as NH ₄ in leachate	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080-PL	W	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Sulphide in leachate	Determination of sulphide in leachate by ion selective electrode	In-house method	L029-PL	W	NONE
Phenols, speciated, in leachate, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	W	NONE
Total petroleum hydrocarbons with carbon banding by GC-MS/GC-MS HS in leachate	Determination of total petroleum hydrocarbons in leachate by GC-MS/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L070B/L088-PL	W	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with Iron (II) sulphate	In-house method	L009B	D	MCERTS
Suspended Solids in leachate	Determination of Settleable Solids by gravimetry	In-house method	L004B	W	NONE
Total petroleum hydrocarbons with carbon banding by GCxGC-FID	Determination of total petroleum hydrocarbons in leachate by GC x GC FID with carbon banding aliphatic and aromatic C10-C35	In-house method	L101B	W	NONE

Analytical Report Number : 25-009497
Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons in leachate	Determination of total petroleum hydrocarbons in leachate by GC x GC FID	In-house method	L101B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\$\$ - Result was reported from high dilution. The result should be interpreted with caution.

\$% - Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.

*g - Unaccredited sample matrix.



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Sample Deviation Report



Analytical Report Number : 25-009497

Project / Site name: Cadent Hinckley

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
DUP-15	N/A	S	464927	c	Sulphide in soil	L010-PL	c
DUP-14	N/A	S	464919	c	Sulphide in soil	L010-PL	c
HP25-03	N/A	S	464935	c	Sulphide in soil	L010-PL	c
HP25-04	N/A	S	464936	c	Sulphide in soil	L010-PL	c
MW25-27	N/A	S	464917	c	Sulphide in soil	L010-PL	c
MW25-27	N/A	S	464918	c	Sulphide in soil	L010-PL	c
MW25-28A	N/A	S	464925	c	Sulphide in soil	L010-PL	c
MW25-28A	N/A	S	464926	c	Sulphide in soil	L010-PL	c
MW25-29	N/A	S	464920	c	Sulphide in soil	L010-PL	c
MW25-29	N/A	S	464921	c	Sulphide in soil	L010-PL	c
MW25-29	N/A	S	464922	c	Sulphide in soil	L010-PL	c
MW25-29	N/A	S	464923	c	Sulphide in soil	L010-PL	c
MW25-30B	N/A	S	464940	c	Sulphide in soil	L010-PL	c
MW25-30B	N/A	S	464941	c	Sulphide in soil	L010-PL	c
MW25-31A	N/A	S	464937	c	Sulphide in soil	L010-PL	c
MW25-31A	N/A	S	464938	c	Sulphide in soil	L010-PL	c
MW25-31A	N/A	S	464939	c	Sulphide in soil	L010-PL	c
VW25-22	N/A	S	464928	c	Sulphide in soil	L010-PL	c
VW25-23	N/A	S	464930	c	Sulphide in soil	L010-PL	c
VW25-24	N/A	S	464931	c	Sulphide in soil	L010-PL	c
VW25-24	N/A	S	464932	c	Sulphide in soil	L010-PL	c
VW25-25	N/A	S	464933	c	Sulphide in soil	L010-PL	c
VW25-25	N/A	S	464934	c	Sulphide in soil	L010-PL	c

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
labdata@advisian.com
inrid.laubscher@worlev.com

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 : 25-009808

Replaces Analytical Report Number: 25-009808, issue no. 1

Additional analysis undertaken.

Asbestos Quantification added to sample 466930 as per clients request

Project / Site name:	Cadent Hinckley	Samples received on:	27/02/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	27/02/2025
Your order number:	415001 00017 00401	Analysis completed by:	17/03/2025
Report Issue Number:	2	Report issued on:	18/03/2025
Samples Analysed:	14 soil samples - 3 leachate samples		

Signed:



Matthew O'Connell
Key Account 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
air - once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.

Some records may be kept for longer according to other legal/best practice requirements.

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: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number	466925	466926	466927	466928	466929
Sample Reference	MW25-32	MW25-32	MW25-32	DUP-16	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.10	1.90	6.20	None Supplied	5.40
Date Sampled	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
Time Taken	1421	1550	1705	None Supplied	1037
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	39.6	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.6	13	14	15	14
Total mass of sample received	kg	0.1	NONE	0.7	0.8	0.6	0.7	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	MMI	-	-	-	-
Analysis completed	N/A	N/A	N/A	04/03/2025	-	-	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	11.8	8.5	8.6	8.6	8.3
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	400	490	150	190	230
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	199	244	77.4	93	116
Sulphide	mg/kg	1	MCERTS	19	6.2	27	32	38
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	17	24	8.8	10	31
Elemental Sulphur	mg/kg	5	MCERTS	11	23	23	26	13
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	160 ^{ss}	66	63	10
Organic Matter (automated)	%	0.1	MCERTS	1.3	0.6	0.7	1.7	1
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	0.0055
Loss on Ignition @ 450°C	%	0.2	MCERTS	3.5	1.4	1.9	2.6	1.7

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
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Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number	466925	466926	466927	466928	466929
Sample Reference	MW25-32	MW25-32	MW25-32	DUP-16	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.10	1.90	6.20	None Supplied	5.40
Date Sampled	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
Time Taken	1421	1550	1705	None Supplied	1037
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	< 0.05	0.44
Acenaphthylene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	< 0.05	0.09
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.1
Phenanthrene	mg/kg	0.05	MCERTS	0.44	< 0.05	< 0.05	< 0.05	0.36
Anthracene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	0.1
Fluoranthene	mg/kg	0.05	MCERTS	0.53	< 0.05	< 0.05	< 0.05	0.26
Pyrene	mg/kg	0.05	MCERTS	0.47	< 0.05	< 0.05	< 0.05	0.29
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.24	< 0.05	< 0.05	< 0.05	0.11
Chrysene	mg/kg	0.05	MCERTS	0.28	< 0.05	< 0.05	< 0.05	0.11
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.35	< 0.05	< 0.05	< 0.05	0.14
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.1	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.29	< 0.05	< 0.05	< 0.05	0.08
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.17	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.19	< 0.05	< 0.05	< 0.05	0.06

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.26	< 0.80	< 0.80	< 0.80	2.13
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.1	6.9	3.7	3.6	9.9
Boron (water soluble)	mg/kg	0.2	MCERTS	4.9	1.6	1	1.1	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	27	7.5	7.1	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	26	19	11	8.1	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	44	11	4.6	5.9	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	26	8.5	9	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	190	57	25	26	60

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number	466925	466926	466927	466928	466929
Sample Reference	MW25-32	MW25-32	MW25-32	DUP-16	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.10	1.90	6.20	None Supplied	5.40
Date Sampled	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
Time Taken	1421	1550	1705	None Supplied	1037
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH,CU,1D,AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH,CU,1D,AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH,CU+HS,1D,AL}	mg/kg	10	NONE	-	-	-	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS,1D,AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS,1D,AR}	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS,1D,AR}	mg/kg	0.02	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH,CU,1D,AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH,CU,1D,AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH,CU+HS,1D,AR}	mg/kg	10	NONE	-	-	-	-	-

TPH (EC10 - EC40) _{EH,CU,1D,TOTAL}	mg/kg	10	MCERTS	210	< 10	< 10	< 10	< 10
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	0.024	0.034	0.43
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	0.008
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-	-

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number				466925	466926	466927	466928	466929
Sample Reference				MW25-32	MW25-32	MW25-32	DUP-16	MW25-30B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.10	1.90	6.20	None Supplied	5.40
Date Sampled				24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
Time Taken				1421	1550	1705	None Supplied	1037
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-	-

Analytical Report Number: 25-009808
 Project / Site name: Cadent Hinckley
 Your Order No: 415001 00017 00401

Lab Sample Number	466925	466926	466927	466928	466929
Sample Reference	MW25-32	MW25-32	MW25-32	DUP-16	MW25-30B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.10	1.90	6.20	None Supplied	5.40
Date Sampled	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
Time Taken	1421	1550	1705	None Supplied	1037
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number	466930	466931	466932	466933	466934
Sample Reference	MW25-33	MW25-33	MW25-33	MW25-34	MW25-34
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	4.00	6.00	0.40	1.30
Date Sampled	24/02/2025	24/02/2025	24/02/2025	25/02/2025	25/02/2025
Time Taken	1432	1540	1610	1420	1600
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	38	40.3
Moisture Content	%	0.01	NONE	7.5	8.3	20	5.7	10
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.7	0.6	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	-	-	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MMI	-	-	-	MMI
Analysis completed	N/A	N/A	N/A	04/03/2025	-	-	-	04/03/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.003	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres, Loose Fibrous Debris	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	8.7	8.7	8.7	10.3
Total Cyanide	mg/kg	1	MCERTS	24	< 1.0	270	2.4	5.8
Complex Cyanide	mg/kg	1	MCERTS	24	< 1.0	260	< 1.0	5.8
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	8.4	2.2	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	2800	300	110	280	1000
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1400	151	53	138	517
Sulphide	mg/kg	1	MCERTS	9.6	1.2	59	< 1.0	1
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	17	6.1	84	81	37
Elemental Sulphur	mg/kg	5	MCERTS	26	10	770	< 5.0	16
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	< 0.5	83	< 0.5	< 0.5
Organic Matter (automated)	%	0.1	MCERTS	2.7	0.2	7.6	0.2	0.3
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	3.4	0.7	7.7	0.9	1.4

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	23	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	23	< 1.4	< 1.4
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Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number	466930	466931	466932	466933	466934
Sample Reference	MW25-33	MW25-33	MW25-33	MW25-34	MW25-34
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	4.00	6.00	0.40	1.30
Date Sampled	24/02/2025	24/02/2025	24/02/2025	25/02/2025	25/02/2025
Time Taken	1432	1540	1610	1420	1600
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	2.9	33	750	37	1.5
Acenaphthylene	mg/kg	0.05	MCERTS	4.2	0.77	130	0.81	0.38
Acenaphthene	mg/kg	0.05	MCERTS	1.8	0.35	43	0.28	0.16
Fluorene	mg/kg	0.05	MCERTS	6.3	0.43	96	0.33	0.29
Phenanthrene	mg/kg	0.05	MCERTS	21	0.44	230	0.34	2
Anthracene	mg/kg	0.05	MCERTS	7.2	0.16	83	< 0.05	0.57
Fluoranthene	mg/kg	0.05	MCERTS	21	0.25	150	0.37	2.8
Pyrene	mg/kg	0.05	MCERTS	18	0.25	130	0.35	2.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	10	0.21	41	0.26	1
Chrysene	mg/kg	0.05	MCERTS	10	0.22	38	0.25	1
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	10	0.29	33	0.31	1.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	5.3	0.15	19	0.15	0.47
Benzo(a)pyrene	mg/kg	0.05	MCERTS	10	0.26	34	0.23	0.86
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	4.6	0.22	14	0.17	0.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.99	0.07	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	5.1	0.24	16	0.17	0.45

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	139	36.8	1810	40.8	15.2
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	23	10	16	10	8.9
Boron (water soluble)	mg/kg	0.2	MCERTS	5.3	1.4	2.6	1	1.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.8	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	36	15	30	12	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	43	34	35	25	49
Lead (aqua regia extractable)	mg/kg	1	MCERTS	110	16	250	16	9.8
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.9	< 0.3	55	< 0.3	0.4
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	12	20	11	16
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.3	< 1.0	2.9	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	43	170	52	43

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Project / Site name: Cadent Hinckley
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Lab Sample Number	466930	466931	466932	466933	466934
Sample Reference	MW25-33	MW25-33	MW25-33	MW25-34	MW25-34
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	4.00	6.00	0.40	1.30
Date Sampled	24/02/2025	24/02/2025	24/02/2025	25/02/2025	25/02/2025
Time Taken	1432	1540	1610	1420	1600
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	0.21	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	0.13	2	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	1.1	27 ^{5%}	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	-	3.1	89	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	-	< 2.0	470	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	< 8.0	580	-	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	< 8.0	450	-	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	< 10	1600	-	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	1.9	32 ^{5%}	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	1.5	27 ^{5%}	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	18	79 ^{5%}	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	-	17	790	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	-	4.8	1800	-	2.8
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	< 10	2100	-	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	< 10	2000	-	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	44	6800	-	< 10

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	300	-	-	61	-
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	< 0.005	< 0.005	-	< 0.005
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	< 0.0070	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	1.9	33 ⁸⁺	< 0.005	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	< 0.0060	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	< 0.010	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	< 0.010	-	-	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	1.5	27 ⁸⁺	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	< 0.0060	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number				466930	466931	466932	466933	466934
Sample Reference				MW25-33	MW25-33	MW25-33	MW25-34	MW25-34
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.10	4.00	6.00	0.40	1.30
Date Sampled				24/02/2025	24/02/2025	24/02/2025	25/02/2025	25/02/2025
Time Taken				1432	1540	1610	1420	1600
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	7.3 %	16 &sup>8+</sup>	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	4	28 &sup>8+</sup>	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	3.7 %	24 &sup>8+</sup>	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	0.45	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	0.6	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	1.5	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	6.4 %	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	0.28	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	< 0.0080	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number				466930	466931	466932	466933	466934
Sample Reference				MW25-33	MW25-33	MW25-33	MW25-34	MW25-34
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.10	4.00	6.00	0.40	1.30
Date Sampled				24/02/2025	24/02/2025	24/02/2025	25/02/2025	25/02/2025
Time Taken				1432	1540	1610	1420	1600
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	< 0.2	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	< 0.05	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	< 0.3	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	44	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	4.1	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	< 0.3	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.30	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	< 0.2	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	0.7	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	< 0.3	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number	466935	466936	466937	466938
Sample Reference	MW25-15C	MW25-15C	MW25-15C	DUP-17
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.70	7.65	8.80	None Supplied
Date Sampled	25/02/2025	25/02/2025	25/02/2025	25/02/2025
Time Taken	1112	1541	1547	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15	15	16
Total mass of sample received	kg	0.1	NONE	0.6	0.5	0.6	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	MMI	-	-	-
Analysis completed	N/A	N/A	N/A	04/03/2025	-	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6	8.7	8.4	8.8
Total Cyanide	mg/kg	1	MCERTS	81	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	81	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3100	64	75	81
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1550	32.2	37.6	40.5
Sulphide	mg/kg	1	MCERTS	52	4.9	18	11
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	80	12	7.1	7.7
Elemental Sulphur	mg/kg	5	MCERTS	130	49	18	17
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	8	10	11
Organic Matter (automated)	%	0.1	MCERTS	4.9	0.1	< 0.1	< 0.1
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	8.8	0.4	0.4	0.4

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4
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Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number				466935	466936	466937	466938
Sample Reference				MW25-15C	MW25-15C	MW25-15C	DUP-17
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.70	7.65	8.80	None Supplied
Date Sampled				25/02/2025	25/02/2025	25/02/2025	25/02/2025
Time Taken				1112	1541	1547	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	28	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	1.9	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.97	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	1.2	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	6	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	1.9	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	9.3	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	8.6	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	6.9	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	6.3	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	10	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	4.5	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	10	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	6.8	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	6.8	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	109	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	3.2	2.2	2.3
Boron (water soluble)	mg/kg	0.2	MCERTS	4.5	0.6	0.7	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	5	6.1	6.8
Copper (aqua regia extractable)	mg/kg	1	MCERTS	180	6.2	8.1	9.4
Lead (aqua regia extractable)	mg/kg	1	MCERTS	410	5	5.1	4.1
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	99	7.3	7	7.7
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	2.5	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	180	26	23	24

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number	466935	466936	466937	466938
Sample Reference	MW25-15C	MW25-15C	MW25-15C	DUP-17
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.70	7.65	8.80	None Supplied
Date Sampled	25/02/2025	25/02/2025	25/02/2025	25/02/2025
Time Taken	1112	1541	1547	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH,CU,1D,AL}	mg/kg	1	MCERTS	-	< 1.0	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH,CU,1D,AL}	mg/kg	2	MCERTS	-	< 2.0	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	-	< 8.0	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	-	< 8.0	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH,CU+HS,1D,AL}	mg/kg	10	NONE	-	< 10	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS,1D,AR}	mg/kg	0.01	MCERTS	-	< 0.010	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS,1D,AR}	mg/kg	0.01	MCERTS	-	< 0.010	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS,1D,AR}	mg/kg	0.02	MCERTS	-	< 0.020	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH,CU,1D,AR}	mg/kg	1	MCERTS	-	< 1.0	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH,CU,1D,AR}	mg/kg	2	MCERTS	-	< 2.0	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	-	< 10	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	-	< 10	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH,CU+HS,1D,AR}	mg/kg	10	NONE	-	< 10	-	-

TPH (EC10 - EC40) _{EH,CU,1D,TOTAL}	mg/kg	10	MCERTS	88	-	< 10	< 10
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VOCs

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	< 0.005	-	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number				466935	466936	466937	466938
Sample Reference				MW25-15C	MW25-15C	MW25-15C	DUP-17
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.70	7.65	8.80	None Supplied
Date Sampled				25/02/2025	25/02/2025	25/02/2025	25/02/2025
Time Taken				1112	1541	1547	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	< 0.008	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-

Analytical Report Number: 25-009808
 Project / Site name: Cadent Hinckley
 Your Order No: 415001 00017 00401

Lab Sample Number				466935	466936	466937	466938
Sample Reference				MW25-15C	MW25-15C	MW25-15C	DUP-17
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.70	7.65	8.80	None Supplied
Date Sampled				25/02/2025	25/02/2025	25/02/2025	25/02/2025
Time Taken				1112	1541	1547	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status	

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

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

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

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

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
466930	MW25-33	1.10	132	Loose Fibres, Loose Fibrous Debris	Chrysotile & Crocidolite	0.003	0.003	17/03/2025	MMI

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

Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	466931	466934	466935
Sample Reference	MW25-33	MW25-34	MW25-15C
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	4.00	1.30	0.70
Date Sampled	24/02/2025	25/02/2025	25/02/2025
Time Taken	1540	1600	1112
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status

General Inorganics

pH (automated)	pH Units	N/A	ISO 17025	8.1	9.7	7.7
Electrical Conductivity	µS/cm	10	ISO 17025	77	180	1100
Total Cyanide	mg/l	0.01	ISO 17025	0.015	0.54	0.45
Complex Cyanide	mg/l	0.01	ISO 17025	0.0152	0.5399	0.4485
Free Cyanide	mg/l	0.01	ISO 17025	< 0.010	< 0.010	< 0.010
Thiocyanate as SCN	mg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	ISO 17025	17.8	50.7	609
Elemental Sulphur	mg/l	20	NONE	< 20	< 20	< 20
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	ISO 17025	0.39	3.7	7.3
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	< 0.015	0.037	0.021
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	3.8	4.2	4.6
Total Suspended Solids	mg/l	2	NONE	9.1	3.6	< 2.0

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005
Ethylphenol & Dimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol (2,3,5-)	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	0.00057	0.1098	< 0.00001
Acenaphthylene	mg/l	0.00001	NONE	0.00004	0.00643	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	0.00006	0.00116	< 0.00001
Fluorene	mg/l	0.00001	NONE	0.00006	0.00181	0.00005
Phenanthrene	mg/l	0.00001	NONE	0.0001	0.00154	< 0.00001
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	0.00026	< 0.00001
Pyrene	mg/l	0.00001	NONE	< 0.00001	0.0002	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	0.00082	0.1212	< 0.00016
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Analytical Report Number: 25-009808
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	466931	466934	466935
Sample Reference	MW25-33	MW25-34	MW25-15C
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	4.00	1.30	0.70
Date Sampled	24/02/2025	25/02/2025	25/02/2025
Time Taken	1540	1600	1112
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status

Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.001	ISO 17025	0.005	0.005	0.002
Cadmium (dissolved)	mg/l	0.00008	ISO 17025	0.00011	0.00013	< 0.00008
Chromium (hexavalent)	mg/l	0.005	ISO 17025	< 0.005	< 0.005	< 0.005
Chromium (dissolved)	mg/l	0.0004	ISO 17025	< 0.0004	0.0022	0.0015
Copper (dissolved)	mg/l	0.0007	ISO 17025	0.0017	0.0053	0.0133
Iron (dissolved)	mg/l	0.004	ISO 17025	0.14	0.56	0.27
Lead (dissolved)	mg/l	0.001	ISO 17025	< 0.001	< 0.001	0.002
Mercury (dissolved)	mg/l	0.0005	ISO 17025	< 0.00050	< 0.00050	< 0.00050
Nickel (dissolved)	mg/l	0.0003	ISO 17025	0.0017	< 0.0003	0.0048
Selenium (dissolved)	mg/l	0.004	ISO 17025	< 0.004	< 0.004	0.007
Zinc (dissolved)	mg/l	0.0004	ISO 17025	0.002	0.0038	0.0108

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC35 _{HS+EH, 2D, AL, #1, #2}	mg/l	0.01	NONE	< 0.01	< 0.01	-
TPH - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	-
TPH - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	-
TPH - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	-
TPH - Aliphatic >EC10 - EC12	mg/l	0.01	NONE	< 0.01	< 0.01	-
TPH - Aliphatic >EC12 - EC16	mg/l	0.01	NONE	< 0.01	< 0.01	-
TPH - Aliphatic >EC16 - EC21	mg/l	0.01	NONE	< 0.01	< 0.01	-
TPH - Aliphatic >EC21 - EC35	mg/l	0.01	NONE	< 0.01	< 0.01	-

TPH - Aromatic >EC5 - EC35 _{HS+EH, 2D, AR, #1, #2}	mg/l	0.01	NONE	< 0.01	0.54	-
TPH - Aromatic >EC5 - EC7 _{HS, 1D, AR}	mg/l	0.001	NONE	< 0.0010	< 0.0010	-
TPH - Aromatic >EC7 - EC8 _{HS, 1D, AR}	mg/l	0.001	NONE	< 0.0010	0.0013	-
TPH - Aromatic >EC8 - EC10 _{HS, 1D, AR}	mg/l	0.001	NONE	< 0.0010	0.0029	-
TPH - Aromatic >EC10 - EC12	mg/l	0.01	NONE	< 0.01	0.27	-
TPH - Aromatic >EC12 - EC16	mg/l	0.01	NONE	< 0.01	0.17	-
TPH - Aromatic >EC16 - EC21	mg/l	0.01	NONE	< 0.01	0.09	-
TPH - Aromatic >EC21 - EC35	mg/l	0.01	NONE	< 0.01	< 0.01	-

TPH (EC10 - EC40) _{EH, 2D, TOTAL, #1, #2}	mg/l	0.01	NONE	-	-	< 0.01
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VOCs

Methyl-t-butyl ether (MTBE)	mg/l	0.003	NONE	< 0.003	< 0.003	-
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001
Toluene	mg/l	0.001	NONE	< 0.001	0.001	< 0.001
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001
P & m-Xylene	mg/l	0.001	NONE	< 0.001	0.001	< 0.001
O-Xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-009808

Project / Site name: Cadent Hinckley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
466925	MW25-32	None Supplied	0.1	Brown gravelly sand with stones
466926	MW25-32	None Supplied	1.9	Brown clay
466927	MW25-32	None Supplied	6.2	Brown sand
466928	DUP-16	None Supplied	None Supplied	Brown sand
466929	MW25-30B	None Supplied	5.4	Brown sandy clay
466930	MW25-33	None Supplied	1.1	Brown clay and sand with gravel
466931	MW25-33	None Supplied	4	Brown clay and sand with gravel
466932	MW25-33	None Supplied	6	Non Soil. ⁹
466933	MW25-34	None Supplied	0.4	Brown clay and sand with stones
466934	MW25-34	None Supplied	1.3	Brown sand with stones
466935	MW25-15C	None Supplied	0.7	Brown loam and sand with clinker and gravel
466936	MW25-15C	None Supplied	7.65	Brown sand
466937	MW25-15C	None Supplied	8.8	Brown sand
466938	DUP-17	None Supplied	None Supplied	Brown sand

Analytical Report Number : 25-009808

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in leachate	Determination of elemental sulphur in leachate by extraction in dichloromethane followed by GC-MS	In-house method: Sample is extracted in dichloromethane prior to analysis by GC-MS	L021B	W	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Phenols, speciated, in soil, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	D	MCERTS
Electrical conductivity at 20°C of leachate	Determination of electrical conductivity in leachate by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Dissolved Organic Carbon in leachate	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS

Analytical Report Number : 25-009808

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chloride in leachate	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
Exchangeable Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Thiocyanate in leachate	Determination of thiocyanate in water by discrete analyser (colorimetry)	In-house method based on SMWW 4500-CN-M	L082B	W	ISO 17025
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer)	In-house method	L082B	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
pH at 20°C in leachate (automated)	Determination of pH in leachate by electrometric measurement	In-house method	L099-PL	W	ISO 17025
BTEX and/or Volatile organic compounds in leachate	Determination of volatile organic compounds in leachate by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in leachate	SVOCs and PAHs in leachate	In-house method	L102B		NONE

Analytical Report Number : 25-009808

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Complex cyanide in leachate	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Free cyanide in leachate	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Total cyanide in leachate	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Ammonium as NH4 in leachate	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Sulphide in leachate	Determination of sulphide in leachate by ion selective electrode	In-house method	L029-PL	W	NONE
Phenols, speciated, in leachate, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	W	NONE
Total petroleum hydrocarbons with carbon banding by GC-MS/GC-MS HS in leachate	Determination of total petroleum hydrocarbons in leachate by GC-MS/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L070B/L088-PL	W	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate	In-house method	L009B	D	MCERTS
Suspended Solids in leachate	Determination of Settleable Solids by gravimetry	In-house method	L004B	W	NONE
Total petroleum hydrocarbons with carbon banding by GCxGC-FID	Determination of total petroleum hydrocarbons in leachate by GC x GC FID with carbon banding aliphatic and aromatic C10-C35	In-house method	L101B	W	NONE

Analytical Report Number : 25-009808
Project / Site name: Cadent Hinckley

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons in leachate	Determination of total petroleum hydrocarbons in leachate by GC x GC FID	In-house method	L101B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\$\$ - Result was reported from high dilution. The result should be interpreted with caution.

\$% - Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.

&+ - Result is above calibration range after the maximum dilution has been applied. The result should be considered the minimum value. The actual result could be significantly higher. This result is not accredited.

*g - Unaccredited sample matrix.

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
labdata@advisian.com
inrid.laubscher@worlev.com

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 : 25-010164

Replaces Analytical Report Number: 25-010164, issue no. 1
Additional analysis undertaken.
TPH CWG added to sample 468707 as per clients request

Project / Site name:	Cadent Hinckley	Samples received on:	27/02/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	28/02/2025
Your order number:	415001-00017_00401	Analysis completed by:	18/03/2025
Report Issue Number:	2	Report issued on:	18/03/2025
Samples Analysed:	9 soil samples - 2 leachate samples		

Signed:



Matthew O'Connell
Key Account 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
	air	- once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-010164
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	468700	468701	468702	468703	468704
Sample Reference	MW25-36	MW25-36	MW25-36	DUP-18	MW25-34
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	2.90	4.60	None Supplied	5.40
Date Sampled	26/02/2025	26/02/2025	26/02/2025	26/02/2025	26/02/2025
Time Taken	1201	1430	1455	None Supplied	1113
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	52.2	52.5	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	16	19	20	15
Total mass of sample received	kg	0.1	NONE	0.5	0.5	0.5	0.6	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	MMI	-	-	-	-
Analysis completed	N/A	N/A	N/A	05/03/2025	-	-	-	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.5	7.8	7.9	8.2	8.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	64	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	61	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	3	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1900	650	220	180	250
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	966	324	110	90.2	124
Sulphide	mg/kg	1	MCERTS	1.3	110	8.6	10	59
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	8.7	66	54	53	36
Elemental Sulphur	mg/kg	5	MCERTS	24	380	10	12	160
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5	6.7	4.2	4.4	2.3
Organic Matter (automated)	%	0.1	MCERTS	3.5	3.4	1.7	1.4	0.5 [†]
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	2	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	5.8	5.5	1.7	1.4	< 0.2 [†]

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
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Analytical Report Number: 25-010164
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	468700	468701	468702	468703	468704
Sample Reference	MW25-36	MW25-36	MW25-36	DUP-18	MW25-34
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	2.90	4.60	None Supplied	5.40
Date Sampled	26/02/2025	26/02/2025	26/02/2025	26/02/2025	26/02/2025
Time Taken	1201	1430	1455	None Supplied	1113
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.16	5.1	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.44	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.25	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.52	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.07	1.8	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.91	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.07	3.5	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	3.4	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.4	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.05	1.9	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	1.3	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.47	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.85	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.4	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.11	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.48	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	22.7	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	22	8.8	8.1	4.4
Boron (water soluble)	mg/kg	0.2	MCERTS	3.2	1.1	1.1	0.7	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	34	40	24	21	5.7
Copper (aqua regia extractable)	mg/kg	1	MCERTS	45	66	28	24	9.1
Lead (aqua regia extractable)	mg/kg	1	MCERTS	29	32	15	14	6
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	68	28	24	6.5
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.7	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	110	61	58	25

Analytical Report Number: 25-010164
 Project / Site name: Cadent Hinckley
 Your Order No: 415001-00017_00401

Lab Sample Number	468700	468701	468702	468703	468704
Sample Reference	MW25-36	MW25-36	MW25-36	DUP-18	MW25-34
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	2.90	4.60	None Supplied	5.40
Date Sampled	26/02/2025	26/02/2025	26/02/2025	26/02/2025	26/02/2025
Time Taken	1201	1430	1455	None Supplied	1113
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	-	0.29	-	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	-	35	-	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	-	60	-	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	74	-	-	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	-	210	-	-	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	-	380	-	-	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	0.013	-	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	-	0.014	-	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	-	0.097	-	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	-	7.3	-	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	-	15	-	-	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	36	-	-	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	-	110	-	-	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	-	170	-	-	< 10

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	18	-	< 10	< 10	-
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VOCs

Benzene	µg/kg	5	MCERTS	-	12	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	10	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	13	-	-	< 8.0
o-Xylene	µg/kg	5	MCERTS	-	8.4	-	-	< 5.0

Chloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	-	< 0.005	-	-	< 0.005
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	< 0.0070	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Benzene	mg/kg	0.005	MCERTS	< 0.005	0.012	< 0.005	< 0.005	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	< 0.0060	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	< 0.010	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-

Analytical Report Number: 25-010164
 Project / Site name: Cadent Hinckley
 Your Order No: 415001-00017_00401

Lab Sample Number				468700	468701	468702	468703	468704
Sample Reference				MW25-36	MW25-36	MW25-36	DUP-18	MW25-34
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.20	2.90	4.60	None Supplied	5.40
Date Sampled				26/02/2025	26/02/2025	26/02/2025	26/02/2025	26/02/2025
Time Taken				1201	1430	1455	None Supplied	1113
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	< 0.010	-	-	-
Toluene	mg/kg	0.005	MCERTS	< 0.005	0.01	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	< 0.0060	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008	0.012	< 0.008	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	< 0.005	0.008	< 0.005	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	< 0.0050	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	0.028	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	< 0.0080	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	< 0.0050	-	-	-

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	-	-
Total PCBs	mg/kg	0.007	MCERTS	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-010164
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number	468705	468706	468707	468708
Sample Reference	MW25-34	MW25-35	MW25-35	MW25-35
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	8.10	0.30	1.00	1.50
Date Sampled	26/02/2025	27/02/2025	27/02/2025	27/02/2025
Time Taken	1440	0940	0946	1003
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	24.4	< 0.1
Moisture Content	%	0.01	NONE	14	13	9	14
Total mass of sample received	kg	0.1	NONE	0.6	0.5	0.5	0.5

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	MMI	-
Analysis completed	N/A	N/A	N/A	-	-	05/03/2025	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.1	7.7	6.8	7
Total Cyanide	mg/kg	1	MCERTS	1.5	47	280	2.8
Complex Cyanide	mg/kg	1	MCERTS	1.5	47	280	2.8
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	100	3400	1700	3200
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	52	1700	856	1580
Sulphide	mg/kg	1	MCERTS	14	< 1.0	3.5	1.8
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	21	110	37	17
Elemental Sulphur	mg/kg	5	MCERTS	340	12	33	11
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	12	< 0.5	< 0.5	< 0.5
Organic Matter (automated)	%	0.1	MCERTS	0.6	1.5	7.1	1.5
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	0.0086
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.6	2.4	8.5	2.4

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40	< 0.40	< 0.40	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4	< 1.4	< 1.4	< 1.4
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Analytical Report Number: 25-010164
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				468705	468706	468707	468708
Sample Reference				MW25-34	MW25-35	MW25-35	MW25-35
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				8.10	0.30	1.00	1.50
Date Sampled				26/02/2025	27/02/2025	27/02/2025	27/02/2025
Time Taken				1440	0940	0946	1003
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	22	0.13	20	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	7.4	0.18	19	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.82	< 0.05	3.7	< 0.05
Fluorene	mg/kg	0.05	MCERTS	8.8	0.1	11	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	10	1.1	130	< 0.05
Anthracene	mg/kg	0.05	MCERTS	3.5	0.29	33	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.1	2	130	< 0.05
Pyrene	mg/kg	0.05	MCERTS	3.4	1.8	110	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1	0.96	56	< 0.05
Chrysene	mg/kg	0.05	MCERTS	1.1	1	53	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.47	1.3	47	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.14	0.54	23	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.49	1.2	39	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.15	0.72	21	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.17	5.3	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.17	0.86	18	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	61.9	12.4	727	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.2	17	33	13
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	3.9	3.5	2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	1
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	8.7	33	31	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	6.4	37	100	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	6.3	49	26	21
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.6	38	36	56
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.3	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	28	200	58	610

Analytical Report Number: 25-010164
 Project / Site name: Cadent Hinckley
 Your Order No: 415001-00017_00401

Lab Sample Number	468705	468706	468707	468708
Sample Reference	MW25-34	MW25-35	MW25-35	MW25-35
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	8.10	0.30	1.00	1.50
Date Sampled	26/02/2025	27/02/2025	27/02/2025	27/02/2025
Time Taken	1440	0940	0946	1003
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS,1D,AL}	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS,1D,AL}	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS,1D,AL}	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH,CU,1D,AL}	mg/kg	1	MCERTS	< 1.0	-	17	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH,CU,1D,AL}	mg/kg	2	MCERTS	6.6	-	27	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	< 8.0	-	34	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	< 8.0	-	75	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH,CU+HS,1D,AL}	mg/kg	10	NONE	< 10	-	150	-

TPHCWG - Aromatic >EC5 - EC7 _{HS,1D,AR}	mg/kg	0.01	MCERTS	0.26	-	0.033	-
TPHCWG - Aromatic >EC7 - EC8 _{HS,1D,AR}	mg/kg	0.01	MCERTS	3.5	-	0.011	-
TPHCWG - Aromatic >EC8 - EC10 _{HS,1D,AR}	mg/kg	0.02	MCERTS	9.9	-	< 0.020	-
TPHCWG - Aromatic >EC10 - EC12 _{EH,CU,1D,AR}	mg/kg	1	MCERTS	21	-	23	-
TPHCWG - Aromatic >EC12 - EC16 _{EH,CU,1D,AR}	mg/kg	2	MCERTS	100	-	180	-
TPHCWG - Aromatic >EC16 - EC21 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	58	-	510	-
TPHCWG - Aromatic >EC21 - EC35 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	27	-	310	-
TPHCWG - Aromatic >EC5 - EC35 _{EH,CU+HS,1D,AR}	mg/kg	10	NONE	220	-	1000	-

TPH (EC10 - EC40) _{EH,CU,1D,TOTAL}	mg/kg	10	MCERTS	-	13	1200	< 10
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VOCs

Benzene	µg/kg	5	MCERTS	250	-	32	-
Toluene	µg/kg	5	MCERTS	3500	-	10	-
Ethylbenzene	µg/kg	5	MCERTS	3400	-	< 5.0	-
p & m-Xylene	µg/kg	8	MCERTS	3200	-	< 8.0	-
o-Xylene	µg/kg	5	MCERTS	1700	-	< 5.0	-

Chloromethane	mg/kg	0.005	MCERTS	-	-	-	-
Chloroethane	mg/kg	0.005	MCERTS	-	-	-	-
Bromomethane	mg/kg	0.005	MCERTS	-	-	-	-
Vinyl Chloride	mg/kg	0.005	NONE	-	-	-	-
Trichlorofluoromethane	mg/kg	0.005	MCERTS	-	-	-	-
1,1-Dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	mg/kg	0.005	MCERTS	-	-	-	-
Trans 1,2-dichloroethylene	mg/kg	0.005	MCERTS	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.005	MCERTS	< 0.005	-	< 0.005	-
1,1-Dichloroethane	mg/kg	0.005	MCERTS	-	-	-	-
2,2-Dichloropropane	mg/kg	0.005	NONE	-	-	-	-
Chloroform	mg/kg	0.005	MCERTS	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dichloroethane	mg/kg	0.007	MCERTS	-	-	-	-
1,1-Dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-
Cis-1,2-dichloroethene	mg/kg	0.005	MCERTS	-	-	-	-
Benzene	mg/kg	0.005	MCERTS	0.25	< 0.005	0.032	< 0.005
Carbontetrachloride	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dichloropropane	mg/kg	0.006	MCERTS	-	-	-	-
Trichloroethene	mg/kg	0.01	MCERTS	-	-	-	-
Dibromomethane	mg/kg	0.005	MCERTS	-	-	-	-
Bromodichloromethane	mg/kg	0.005	MCERTS	-	-	-	-
Cis-1,3-dichloropropene	mg/kg	0.005	MCERTS	-	-	-	-

Analytical Report Number: 25-010164
 Project / Site name: Cadent Hinckley
 Your Order No: 415001-00017_00401

Lab Sample Number				468705	468706	468707	468708
Sample Reference				MW25-34	MW25-35	MW25-35	MW25-35
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				8.10	0.30	1.00	1.50
Date Sampled				26/02/2025	27/02/2025	27/02/2025	27/02/2025
Time Taken				1440	0940	0946	1003
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Trans-1,3-dichloropropene	mg/kg	0.01	MCERTS	-	-	-	-
Toluene	mg/kg	0.005	MCERTS	3.5	< 0.005	0.01	< 0.005
1,1,2-Trichloroethane	mg/kg	0.006	MCERTS	-	-	-	-
1,3-Dichloropropane	mg/kg	0.005	MCERTS	-	-	-	-
Dibromochloromethane	mg/kg	0.005	MCERTS	-	-	-	-
Tetrachloroethene	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dibromoethane	mg/kg	0.005	MCERTS	-	-	-	-
Chlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	0.005	MCERTS	-	-	-	-
Ethylbenzene	mg/kg	0.005	MCERTS	3.4	< 0.005	< 0.005	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	3.2	< 0.008	< 0.008	< 0.008
Styrene	mg/kg	0.005	MCERTS	-	-	-	-
Bromoform	mg/kg	0.005	MCERTS	-	-	-	-
o-Xylene	mg/kg	0.005	MCERTS	1.7	< 0.005	< 0.005	< 0.005
Isopropylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005	NONE	-	-	-	-
Bromobenzene	mg/kg	0.005	MCERTS	-	-	-	-
n-Propylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
2-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-
4-Chlorotoluene	mg/kg	0.005	MCERTS	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
tert-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
sec-Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-
p-Isopropyltoluene	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-
Butylbenzene	mg/kg	0.005	MCERTS	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/kg	0.008	MCERTS	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-
Hexachlorobutadiene	mg/kg	0.005	MCERTS	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.005	MCERTS	-	-	-	-

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-
Total PCBs	mg/kg	0.007	MCERTS	-	< 0.007	< 0.007	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-010164
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017_00401

Lab Sample Number				468701	468707			
Sample Reference				MW25-36	MW25-35			
Sample Number				None Supplied	None Supplied			
Water Matrix				N/A	N/A			
Depth (m)				2.90	1.00			
Date Sampled				26/02/2025	27/02/2025			
Time Taken				1430	0946			
Analytical Parameter (Leachate Analysis)				Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (automated)	pH Units	N/A	ISO 17025	7.8	6.5
Electrical Conductivity	µS/cm	10	ISO 17025	140	310
Total Cyanide	mg/l	0.01	ISO 17025	0.2	0.2
Complex Cyanide	mg/l	0.01	ISO 17025	0.1977	0.2038
Free Cyanide	mg/l	0.01	ISO 17025	< 0.010	< 0.010
Thiocyanate as SCN	mg/l	0.2	ISO 17025	< 0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	ISO 17025	37.4	108
Elemental Sulphur	mg/l	20	NONE	< 20	< 20
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005
Chloride	mg/l	0.15	ISO 17025	10	5.2
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	0.61	0.045
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	5.1	3.7
Total Suspended Solids	mg/l	2	NONE	2.7	< 2.0

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Ethylphenol & Dimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Trimethylphenol (2,3,5-)	mg/l	0.0005	NONE	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	< 0.00016
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Analytical Report Number: 25-010164
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017_00401

Lab Sample Number				468701	468707			
Sample Reference				MW25-36	MW25-35			
Sample Number				None Supplied	None Supplied			
Water Matrix				N/A	N/A			
Depth (m)				2.90	1.00			
Date Sampled				26/02/2025	27/02/2025			
Time Taken				1430	0946			
Analytical Parameter (Leachate Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.001	ISO 17025	< 0.001	< 0.001
Cadmium (dissolved)	mg/l	0.00008	ISO 17025	< 0.00008	< 0.00008
Chromium (hexavalent)	mg/l	0.005	ISO 17025	< 0.005	< 0.005
Chromium (dissolved)	mg/l	0.0004	ISO 17025	0.0005	0.0012
Copper (dissolved)	mg/l	0.0007	ISO 17025	0.0095	0.0016
Iron (dissolved)	mg/l	0.004	ISO 17025	0.19	0.15
Lead (dissolved)	mg/l	0.001	ISO 17025	< 0.001	< 0.001
Mercury (dissolved)	mg/l	0.0005	ISO 17025	0.00159	< 0.00050
Nickel (dissolved)	mg/l	0.0003	ISO 17025	0.0109	0.0107
Selenium (dissolved)	mg/l	0.004	ISO 17025	0.005	< 0.004
Zinc (dissolved)	mg/l	0.0004	ISO 17025	0.0028	0.0213

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC35 _{HS+EH, 2D, AL, #1, #2}	mg/l	0.01	NONE	< 0.01	-
TPH - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aliphatic >EC10 - EC12	mg/l	0.01	NONE	< 0.01	-
TPH - Aliphatic >EC12 - EC16	mg/l	0.01	NONE	< 0.01	-
TPH - Aliphatic >EC16 - EC21	mg/l	0.01	NONE	< 0.01	-
TPH - Aliphatic >EC21 - EC35	mg/l	0.01	NONE	< 0.01	-

TPH - Aromatic >EC5 - EC35 _{HS+EH, 2D, AR, #1, #2}	mg/l	0.01	NONE	< 0.01	-
TPH - Aromatic >EC5 - EC7 _{HS, 1D, AR}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aromatic >EC7 - EC8 _{HS, 1D, AR}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aromatic >EC8 - EC10 _{HS, 1D, AR}	mg/l	0.001	NONE	< 0.0010	-
TPH - Aromatic >EC10 - EC12	mg/l	0.01	NONE	< 0.01	-
TPH - Aromatic >EC12 - EC16	mg/l	0.01	NONE	< 0.01	-
TPH - Aromatic >EC16 - EC21	mg/l	0.01	NONE	< 0.01	-
TPH - Aromatic >EC21 - EC35	mg/l	0.01	NONE	< 0.01	-

TPH (EC10 - EC40) _{EH, 2D, TOTAL, #1, #2}	mg/l	0.01	NONE	-	< 0.01
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VOCs

Methyl-t-butyl ether (MTBE)	mg/l	0.003	NONE	< 0.003	-
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001
P & m-Xylene	mg/l	0.001	NONE	< 0.001	< 0.001
O-Xylene	mg/l	0.001	NONE	< 0.001	< 0.001

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-010164

Project / Site name: Cadent Hinckley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
468700	MW25-36	None Supplied	0.2	Non Soil. ⁹⁹
468701	MW25-36	None Supplied	2.9	Non Soil. ⁹⁹
468702	MW25-36	None Supplied	4.6	Brown clay and sand
468703	DUP-18	None Supplied	None Supplied	Brown clay and sand
468704	MW25-34	None Supplied	5.4	Brown sand
468705	MW25-34	None Supplied	8.1	Brown sand
468706	MW25-35	None Supplied	0.3	Brown clay and sand with gravel
468707	MW25-35	None Supplied	1	Non Soil. ⁹⁹
468708	MW25-35	None Supplied	1.5	Brown clay

Analytical Report Number : 25-010164

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in leachate	Determination of elemental sulphur in leachate by extraction in dichloromethane followed by GC-MS	In-house method: Sample is extracted in dichloromethane prior to analysis by GC-MS	L021B	W	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
Phenols, speciated, in soil, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	D	MCERTS
Electrical conductivity at 20°C of leachate	Determination of electrical conductivity in leachate by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Dissolved Organic Carbon in leachate	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS

Analytical Report Number : 25-010164

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chloride in leachate	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
Exchangeable Ammonium as NH ₄ in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Thiocyanate in leachate	Determination of thiocyanate in water by discrete analyser (colorimetry)	In-house method based on SMWW 4500-CN-M	L082B	W	ISO 17025
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer)	In-house method	L082B	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
pH at 20°C in leachate (automated)	Determination of pH in leachate by electrometric measurement	In-house method	L099-PL	W	ISO 17025
BTEX and/or Volatile organic compounds in leachate	Determination of volatile organic compounds in leachate by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	NONE

Analytical Report Number : 25-010164

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated PAHs and/or Semi-volatile organic compounds in leachate	SVOCs and PAHs in leachate	In-house method	L102B		NONE
Complex cyanide in leachate	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Free cyanide in leachate	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Total cyanide in leachate	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Ammonium as NH4 in leachate	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Sulphide in leachate	Determination of sulphide in leachate by ion selective electrode	In-house method	L029-PL	W	NONE
Phenols, speciated, in leachate, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	W	NONE
Total petroleum hydrocarbons with carbon banding by GC-MS/GC-MS HS in leachate	Determination of total petroleum hydrocarbons in leachate by GC-MS/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L070B/L088-PL	W	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate	In-house method	L009B	D	MCERTS
Suspended Solids in leachate	Determination of Settleable Solids by gravimetry	In-house method	L004B	W	NONE
Total petroleum hydrocarbons with carbon banding by GCxGC-FID	Determination of total petroleum hydrocarbons in leachate by GC x GC FID with carbon banding aliphatic and aromatic C10-C35	In-house method	L101B	W	NONE

Analytical Report Number : 25-010164
Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons in leachate	Determination of total petroleum hydrocarbons in leachate by GC x GC FID	In-house method	L101B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*j - Due to sample matrix, results for TOC and Loss on Ignition do not agree.

*g - Unaccredited sample matrix.

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
ingrid.laubscher@worley.com
labdata@advisian.com

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 : 25-010440

Project / Site name:	Cadent Hinckley	Samples received on:	03/03/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	03/03/2025
Your order number:	415001 00017 00401	Analysis completed by:	10/03/2025
Report Issue Number:	1	Report issued on:	10/03/2025
Samples Analysed:	1 soil sample		

Signed:



Matthew O'Connell
Key Account 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
air - once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-010440
Project / Site name: Cadent Hinckley
Your Order No: 415001 00017 00401

Lab Sample Number				470089
Sample Reference				SKIP
Sample Number				SKIP/280225/12:40
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				28/02/2025
Time Taken				1240
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	11
Total mass of sample received	kg	0.1	NONE	0.5

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8
Total Cyanide	mg/kg	1	MCERTS	2.7
Complex Cyanide	mg/kg	1	MCERTS	2.7
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3300
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1640
Sulphide	mg/kg	1	MCERTS	4.7
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	7.9
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0
Ammonium - Exchangeable as NH ₄ ⁺	mg/kg	0.5	NONE	< 0.5
Organic Matter (automated)	%	0.1	MCERTS	1.3
Loss on Ignition @ 450°C	%	0.2	MCERTS	2.9

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	< 0.10
Phenol	mg/kg	0.1	MCERTS	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS	< 0.40

Total Phenols

Total Phenols (HPLC)	mg/kg	1.4	NONE	< 1.4
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Analytical Report Number: 25-010440
 Project / Site name: Cadent Hinckley
 Your Order No: 415001 00017 00401

Lab Sample Number				470089
Sample Reference				SKIP
Sample Number				SKIP/280225/12:40
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				28/02/2025
Time Taken				1240
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.58
Acenaphthylene	mg/kg	0.05	MCERTS	1.1
Acenaphthene	mg/kg	0.05	MCERTS	0.1
Fluorene	mg/kg	0.05	MCERTS	0.37
Phenanthrene	mg/kg	0.05	MCERTS	2.5
Anthracene	mg/kg	0.05	MCERTS	0.87
Fluoranthene	mg/kg	0.05	MCERTS	3.3
Pyrene	mg/kg	0.05	MCERTS	3.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.2
Chrysene	mg/kg	0.05	MCERTS	2.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.3
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.52
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.2

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	29.6
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31
Copper (aqua regia extractable)	mg/kg	1	MCERTS	36
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	87

Petroleum Hydrocarbons

TPH (EC10 - EC40) _{EH, CU, 1D, TOTAL}	mg/kg	10	MCERTS	51
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VOCs

Benzene	mg/kg	0.005	MCERTS	< 0.005
Toluene	mg/kg	0.005	MCERTS	< 0.005
Ethylbenzene	mg/kg	0.005	MCERTS	< 0.005
p & m-xylene	mg/kg	0.008	MCERTS	< 0.008
o-Xylene	mg/kg	0.005	MCERTS	< 0.005

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-010440

Project / Site name: Cadent Hinckley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
470089	SKIP	KIP/280225/12:4	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 25-010440

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Phenols, speciated, in soil, by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 25-010440
Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
Exchangeable Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer)	In-house method	L082B	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
ingrid.laubscher@worley.com
labdata@advisian.com

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 : 25-006728

Project / Site name:	Cadent Hinckley	Samples received on:	11/02/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	13/02/2025
Your order number:	415001-00017_00401	Analysis completed by:	18/02/2025
Report Issue Number:	1	Report issued on:	18/02/2025
Samples Analysed:	1 soil sample - 1 2stage sample		

Signed:



Joanna Wawrzeczko
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-006728
 Project / Site name: Cadent Hinckley
 Your Order No: 415001-00017_00401

Lab Sample Number				451494
Sample Reference				MW25-10
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				2.50
Date Sampled				07/02/2025
Time Taken				1432
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	18
Total mass of sample received	kg	0.1	NONE	0.6

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	8.2
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	1.5
Loss on Ignition @ 450°C	%	0.2	MCERTS	3.5
Acid Neutralisation Capacity	mmol/kg +/-	-9999	NONE	17

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Environmental Science

i2 Analytical

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

Telephone: 01923 225404

Fax: 01923 237404

email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results

Report No:	25-006728						
Location	Cadent Hinckley						
Lab Reference (Sample Number)	451494						
Sampling Date	07/02/2025						
Sample ID	MW25-10						
Depth (m)	2.50						
Solid Waste Analysis							
TOC (%)**	1.5				3%	5%	6%
Loss on Ignition (%) **	3.5				--	--	10%
BTEX (µg/kg)**	-				6000	--	--
Sum of PCBs (mg/kg)**	-				1	--	--
Mineral Oil (mg/kg) EH ID CU AL	-				500	--	--
Total PAH (WAC-17) (mg/kg)	-				100	--	--
pH (units)**	8.2				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	17				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.023	0.020		0.20	0.5	2	25
Barium *	0.040	0.036		0.36	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	< 0.00060	0.0021		0.019	0.5	10	70
Copper *	0.034	0.015		0.17	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	0.075	0.012		0.20	0.5	10	30
Nickel *	0.0074	0.0029		0.034	0.4	10	40
Lead *	< 0.0017	0.0032		0.028	0.5	10	50
Antimony *	0.030	0.019		0.21	0.06	0.7	5
Selenium *	0.0053	0.0057		0.057	0.1	0.5	7
Zinc *	0.0060	0.0049		0.050	4	50	200
Chloride *	76	18		250	800	15000	25000
Fluoride*	0.12	0.45		4.1	10	150	500
Sulphate *	520	160		2100	1000	20000	50000
TDS*	660	220		2800	4000	60000	100000
Phenol Index (Monohydric Phenols) *	0.24	< 0.13		0.54	1	-	-
DOC	48.7	16		204	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.6						
Dry Matter (%)	82						
Moisture (%)	18						
Stage 1							
Volume Eluate L2 (litres)	0.313						
Filtered Eluate VE1 (litres)	0.22						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							

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

Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.
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 : 25-006728

Project / Site name: Cadent Hinckley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
451494	MW25-10	None Supplied	2.5	Brown clay and sand with gravel and vegetation

Analytical Report Number : 25-006728

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031B	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1 ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033B	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037B	W	NONE
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Preparation WAC leachate		In-house method	L043B	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025

Analytical Report Number : 25-006728

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

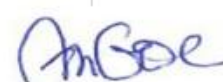
e: ingrid.laubscher@worley.com
leanne.carr@worley.com

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 : 25-007875

Project / Site name:	Cadent Hinckley	Samples received on:	18/02/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	19/02/2025
Your order number:	415001-00017_00401	Analysis completed by:	24/02/2025
Report Issue Number:	1	Report issued on:	25/02/2025
Samples Analysed:	2 soil samples - 2 2stage samples		



Signed: _____

Anna Goc
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
air	- once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-007875

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017_00401

Lab Sample Number				457471	457472
Sample Reference				MW25-13A	MW25-17
Sample Number				None Supplied	None Supplied
Water Matrix				N/A	N/A
Depth (m)				2.70	0.80
Date Sampled				11/02/2025	13/02/2025
Time Taken				1545	1549
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	33
Moisture Content	%	0.01	NONE	15	10
Total mass of sample received	kg	0.1	NONE	0.6	0.6

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	8.4	7.7
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	1.4	1.3
Loss on Ignition @ 450°C	%	0.2	MCERTS	3	3.9
Acid Neutralisation Capacity	mmol/kg	-9999	NONE	19	3.9

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

i2 Analytical

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

Telephone: 01923 225404

Fax: 01923 237404

email: reception@i2analytical.com

Waste Acceptance Criteria Analytical Results

Report No:	25-007875			
				Client: ADVISIAN
Location	Cadent Hinckley			
Lab Reference (Sample Number)	457471			Landfill Waste Acceptance Criteria
Sampling Date	11/02/2025			Limits
Sample ID	MW25-13A			
Depth (m)	2.70			Inert Waste Landfill
				Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill
				Hazardous Waste Landfill
Solid Waste Analysis				
TOC (%)**	1.4			3%
Loss on Ignition (%) **	3.0			5%
BTEX (µg/kg)**	-			6%
Sum of PCBs (mg/kg)**	-			10%
Mineral Oil (mg/kg) EH, LD, CU, AL	-			6000
Total PAH (WAC-17) (mg/kg)	-			1
pH (units)**	8.4			500
Acid Neutralisation Capacity (mmol / kg)	19			100
				--
				To be evaluated
				To be evaluated
Eluate Analysis				
	2:1	8:1	Cumulative 10:1	Limit values for compliance leaching test
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)
Arsenic *	0.0052	0.014	0.13	0.5
Barium *	0.044	0.15	1.4	2
Cadmium *	< 0.00010	< 0.00010	< 0.0010	25
Chromium *	< 0.00060	< 0.00060	< 0.0060	0.5
Copper *	0.021	0.0030	0.049	20
Mercury *	< 0.00070	< 0.0007	< 0.0070	100
Molybdenum *	0.15	0.038	0.49	0.5
Nickel *	0.0035	0.0033	0.034	10
Lead *	< 0.0017	0.0023	0.021	10
Antimony *	0.015	0.011	0.11	0.5
Selenium *	< 0.0050	< 0.0050	< 0.050	0.7
Zinc *	0.010	0.0042	0.048	5
Chloride *	34	8.7	110	0.1
Fluoride*	1.4	0.78	8.4	0.5
Sulphate *	770	120	1900	10
TDS*	750	380	4200	1000
Phenol Index (Monohydric Phenols) *	1.1	0.22	3.1	4000
DOC	33.3	36	360	60000
				100000
				1
				-
				-
Leach Test Information				
Stone Content (%)	< 0.1			
Sample Mass (kg)	0.6			
Dry Matter (%)	85			
Moisture (%)	15			
Stage 1				
Volume Eluate L2 (litres)	0.313			
Filtered Eluate VE1 (litres)	0.18			
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)				
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited				
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.				
Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.				
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.				

Iss No 25-007875-1-Cadent Hinckley 00401_FRM



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

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 25-007875

Project / Site name: Cadent Hinckley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
457471	MW25-13A	None Supplied	2.7	Brown clay and sand with gravel and vegetation
457472	MW25-17	None Supplied	0.8	Brown loam and sand with rubble and stones

Analytical Report Number : 25-007875

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031B	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1 ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033B	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037B	W	NONE
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Preparation WAC leachate		In-house method	L043B	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025

Analytical Report Number : 25-007875

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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
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FID	Flame Ionisation Detector
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#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

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The result for sum should be interpreted with caution

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
ingrid.laubscher@worley.com

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 : 25-008927

Project / Site name:	Cadent Hinckley	Samples received on:	21/02/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	24/02/2025
Your order number:	415001-00017_00401	Analysis completed by:	28/02/2025
Report Issue Number:	1	Report issued on:	28/02/2025
Samples Analysed:	1 soil sample - 1 2stage sample		

Signed:



Dominika Liana
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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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: 25-008927
Project / Site name: Cadent Hinckley
Your Order No: 415001-00017_00401

Lab Sample Number				462116
Sample Reference				MW25-25
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				2.40
Date Sampled				19/02/2025
Time Taken				1059
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	4.6
Total mass of sample received	kg	0.1	NONE	0.5

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	8.4
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	0.1
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.4
Acid Neutralisation Capacity	+/- mmol/kg	-9999	NONE	1.7

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



i2 Analytical

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

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

Waste Acceptance Criteria Analytical Results							
Report No:	25-008927						
					Client: ADVISIAN		
Location	Cadent Hinckley						
Lab Reference (Sample Number)	462116				Landfill Waste Acceptance Criteria		
Sampling Date	19/02/2025				Limits		
Sample ID	MW25-25				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	2.40						
Solid Waste Analysis							
TOC (%)**	0.1				3%	5%	6%
Loss on Ignition (%) **	0.4				--	--	10%
BTEX (µg/kg)**	-				6000	--	--
Sum of PCBs (mg/kg)**	-				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	-				500	--	--
Total PAH (WAC-17) (mg/kg)	-				100	--	--
pH (units)**	8.4				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	1.7				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic *	0.0040	0.0066		0.062	0.5	2	25
Barium *	0.024	0.018		0.18	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	0.0016	0.0020		0.019	0.5	10	70
Copper *	0.0098	0.0035		0.044	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	0.0063	< 0.0014		0.017	0.5	10	30
Nickel *	0.0012	0.0012		0.012	0.4	10	40
Lead *	< 0.0017	< 0.0017		< 0.017	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.013	0.0034		0.047	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
Fluoride*	0.29	0.11		1.3	10	150	500
Sulphate *	13	8.2		88	1000	20000	50000
TDS*	52	38		400	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	6.47	9.3		88.4	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.5						
Dry Matter (%)	95						
Moisture (%)	4.6						
Stage 1							
Volume Eluate L2 (litres)	0.341						
Filtered Eluate VE1 (litres)	0.26						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		

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

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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 : 25-008927
Project / Site name: Cadent Hinckley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
462116	MW25-25	None Supplied	2.4	Brown sand

Analytical Report Number : 25-008927

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031B	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033B	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037B	W	NONE
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Preparation WAC leachate		In-house method	L043B	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025



Analytical Report Number : 25-008927
Project / Site name: Cadent Hinckley

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' 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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
ingrid.laubscher@worley.com

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 : 25-008978

Project / Site name:	Cadent Hickley	Samples received on:	24/02/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	24/02/2025
Your order number:	415001-00017-00401	Analysis completed by:	28/02/2025
Report Issue Number:	1	Report issued on:	28/02/2025
Samples Analysed:	1 soil sample - 1 2stage sample		

Signed:



Dominika Liana
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-008978
Project / Site name: Cadent Hickley
Your Order No: 415001-00017-00401

Lab Sample Number				462423
Sample Reference				MW25-23B
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				4.70
Date Sampled				18/02/2025
Time Taken				1210
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	15
Total mass of sample received	kg	0.1	NONE	0.5

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	7.9
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	0.3
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.5
Acid Neutralisation Capacity	+/- mmol/kg	-9999	NONE	13

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



i2 Analytical

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

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

Waste Acceptance Criteria Analytical Results							
Report No:	25-008978						
					Client: ADVISIAN		
Location	Cadent Hickley						
Lab Reference (Sample Number)	462423				Landfill Waste Acceptance Criteria		
Sampling Date	18/02/2025				Limits		
Sample ID	MW25-23B				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	4.70						
Solid Waste Analysis							
TOC (%)**	0.3				3%	5%	6%
Loss on Ignition (%) **	0.5				--	--	10%
BTEX (µg/kg)**	-				6000	--	--
Sum of PCBs (mg/kg)**	-				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	-				500	--	--
Total PAH (WAC-17) (mg/kg)	-				100	--	--
pH (units)**	7.9				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	13				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic *	0.0047	0.0030		0.032	0.5	2	25
Barium *	0.041	0.023		0.26	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	0.00066	0.0016		0.015	0.5	10	70
Copper *	0.024	0.0040		0.068	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	0.011	0.0027		0.040	0.5	10	30
Nickel *	0.0030	0.0027		0.028	0.4	10	40
Lead *	< 0.0017	< 0.0017		< 0.017	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.013	0.0060		0.070	4	50	200
Chloride *	26	< 4.0		65	800	15000	25000
Fluoride*	0.44	0.17		2.1	10	150	500
Sulphate *	110	9.1		240	1000	20000	50000
TDS*	110	28		390	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	11.5	12		121	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.5						
Dry Matter (%)	85						
Moisture (%)	15						
Stage 1							
Volume Eluate L2 (litres)	0.321						
Filtered Eluate VE1 (litres)	0.25						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		

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

Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.

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 : 25-008978
Project / Site name: Cadent Hickley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
462423	MW25-23B	None Supplied	4.7	Brown sand

Analytical Report Number : 25-008978

Project / Site name: Cadent Hickley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031B	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033B	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037B	W	NONE
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Preparation WAC leachate		In-house method	L043B	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025

Analytical Report Number : 25-008978
Project / Site name: Cadent Hickley

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' 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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

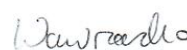
e: leanne.carr@worley.com
labdata@advisian.com
inrid.laubscher@worlev.com

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 : 25-016183

Project / Site name:	Cadent Hinckley	Samples received on:	27/02/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	27/02/2025
Your order number:	415001 00017 00401	Analysis completed by:	07/04/2025
Report Issue Number:	1	Report issued on:	07/04/2025
Samples Analysed:	1 soil sample - 1 2stage sample		



Signed:

Joanna Wawrzeczko
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-016183
 Project / Site name: Cadent Hinckley
 Your Order No: 415001 00017 00401

Lab Sample Number				499489
Sample Reference				MW25-33
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				4.00
Date Sampled				24/02/2025
Time Taken				1540
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	8.3
Total mass of sample received	kg	0.1	NONE	0.8

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	7.9
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	< 0.1
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.6
Acid Neutralisation Capacity	mmol/kg +/-	-9999	NONE	3.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Environmental Science

i2 Analytical

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

Telephone: 01923 225404

Fax: 01923 237404

email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results

Report No:	25-016183						
Location	Cadent Hinckley						
Lab Reference (Sample Number)	499489						
Sampling Date	24/02/2025						
Sample ID	MW25-33						
Depth (m)	4.00						
Solid Waste Analysis							
TOC (%)**	< 0.1				3%	5%	6%
Loss on Ignition (%) **	0.6				--	--	10%
BTEX (µg/kg)**	-				6000	--	--
Sum of PCBs (mg/kg)**	-				1	--	--
Mineral Oil (mg/kg) EH_ID_CU_AL	-				500	--	--
Total PAH (WAC-17) (mg/kg)	-				100	--	--
pH (units)**	7.9				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	3.5				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0066	0.0037		0.041	0.5	2	25
Barium *	0.046	0.061		0.59	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	< 0.00060	0.0025		0.022	0.5	10	70
Copper *	0.0098	< 0.00070		0.014	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	0.0063	0.0016		0.022	0.5	10	30
Nickel *	0.0011	0.00093		0.0095	0.4	10	40
Lead *	< 0.0017	< 0.0017		< 0.017	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.0063	0.0022		0.027	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
Fluoride*	0.21	0.092		1.1	10	150	500
Sulphate *	69	6.2		140	1000	20000	50000
TDS*	130	36		480	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	6.27	6.2		62.4	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.8						
Dry Matter (%)	92						
Moisture (%)	8.3						
Stage 1							
Volume Eluate L2 (litres)	0.334						
Filtered Eluate VE1 (litres)	0.22						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited			

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

Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.
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 : 25-016183

Project / Site name: Cadent Hinckley

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
499489	MW25-33	None Supplied	4	Brown clay and sand with gravel

Analytical Report Number : 25-016183

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031B	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1 ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033B	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037B	W	NONE
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039B	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039B	W	ISO 17025
Preparation WAC leachate		In-house method	L043B	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Analytical Report Number : 25-016183

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Worley Parsons
2nd Floor
Bull Wharf
Redcliff Street
Bristol
United Kingdom
BS1 6QR



4225



Attention : Brooke Davison
Date : 1st April, 2025
Your reference : 415001-00017_00401
Our reference : Test Report 25/4497 Batch 1 Schedule A
Location : Brick Kiln Street, Hinckley
Date samples received : 21st March, 2025
Status : Final Report
Issue : 202504011146

One sample was received for analysis on 21st March, 2025 and was scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 0.217 kg of CO2

Scope 1&2&3 emissions - 0.513 kg of CO2

Authorised By:



Simon Gomery BSc

Senior Technical Account Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Worley Parsons
Reference: 415001-00017_00401
Location: Brick Kiln Street, Hinckley
Contact: Brooke Davison
EMT Job No: 25/4497

Report : Product

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Sample No.	1-2										Please see attached notes for all abbreviations and acronyms		
Sample ID	MW2S-23B												
Depth													
COC No / misc													
Containers	V												
Sample Date	19/03/2025												
Sample Type	Product												
Batch Number	1												
Date of Receipt	21/03/2025										LOD/LOR	Units	Method No.
Whole Oil Trace #	See Attached											None	TM1/PM0
Density @20°C	1.0778										<0.0000	g/cm3	TM11/PM0
TPH CWG													
Aliphatics													
>C5-C6 (EH_CU_1D_AL) #	<0.1 ⁺										<0.1	%	TM1/PM0
>C6-C8 (EH_CU_1D_AL) #	0.2 ⁺										<0.1	%	TM1/PM0
>C8-C10 (EH_CU_1D_AL) #	0.9 ⁺										<0.1	%	TM1/PM0
>C10-C12 (EH_CU_1D_AL) #	0.9 ⁺										<0.1	%	TM1/PM0
>C12-C16 (EH_CU_1D_AL) #	1.0 ⁺										<0.1	%	TM1/PM0
>C16-C21 (EH_CU_1D_AL) #	0.5 ⁺										<0.1	%	TM1/PM0
>C21-C35 (EH_CU_1D_AL) #	0.4 ⁺										<0.1	%	TM1/PM0
Aromatics													
>EC6-EC8 (EH_CU_1D_AR) #	2.0 ⁺										<0.1	%	TM1/PM0
>EC8-EC10 (EH_CU_1D_AR) #	6.6 ⁺										<0.1	%	TM1/PM0
>EC10-EC12 (EH_CU_1D_AR) #	18.9 ⁺										<0.1	%	TM1/PM0
>EC12-EC16 (EH_CU_1D_AR) #	14.8 ⁺										<0.1	%	TM1/PM0
>EC16-EC21 (EH_CU_1D_AR) #	15.0 ⁺										<0.1	%	TM1/PM0
>EC21-EC35 (EH_CU_1D_AR) #	30.1 ⁺										<0.1	%	TM1/PM0

Client Name: Worley Parsons
Reference: 415001-00017_00401
Location: Brick Kiln Street, Hinckley
Contact: Brooke Davison

EMT Job No.: 25/4497
EMT Sample No.: 1
Sample Identity: MW2S-23B
Depth:

Description: Dark brown coloured oil
Carbon Range: 6-40+
Boiling Point Range (°C): 69-525+

% Diesel: -
% Petrol: -
Estimated % Weathering of Petrol: -

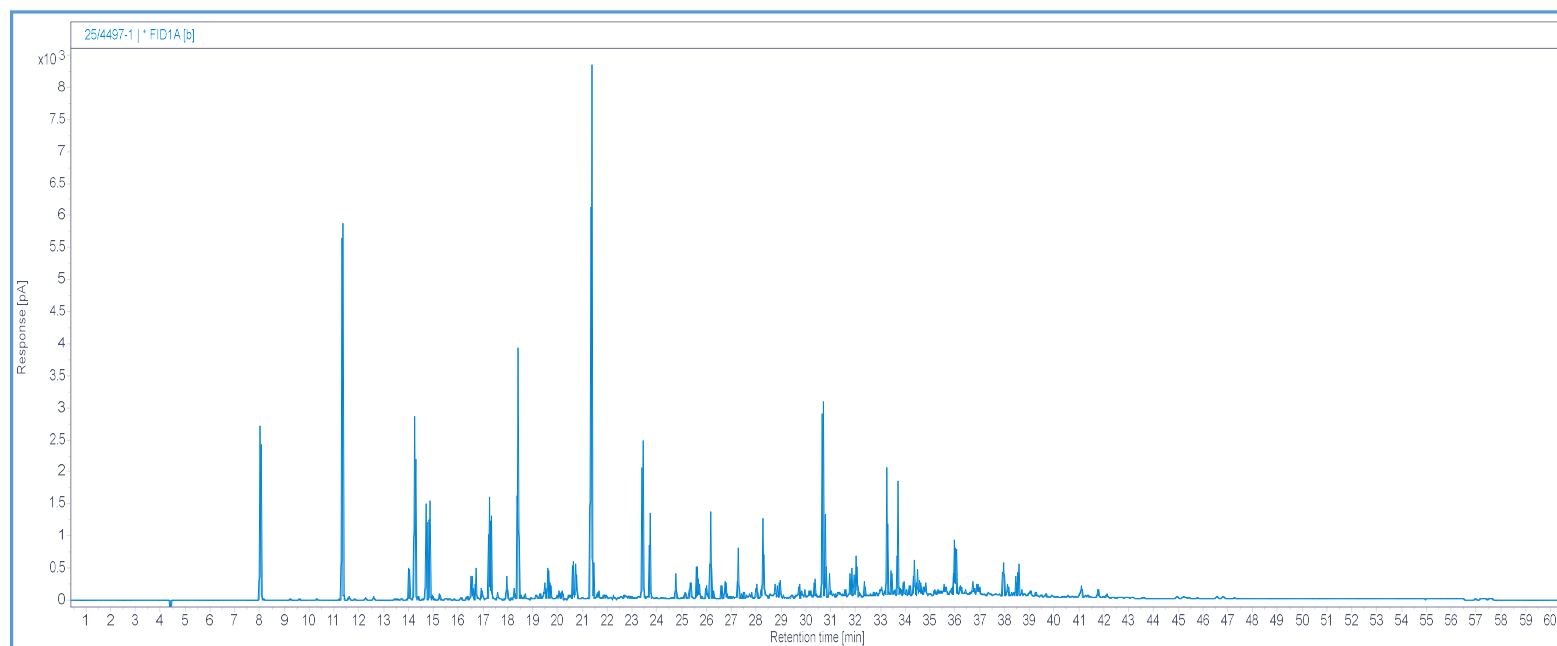
Pristane/Phytane Ratio: n/a
nC₁₇/Pristane Ratio: n/a

Toluene/nC₈ ratio of Petrol: -
Age of Petrol (years) (schmidt et al 2002): -

Age of Diesel (+/- 2 years)*: Not possible as relevant markers are either not present or values are above the permitted range

Interpretation: Coal tar

Chromatogram:



*The age of release estimated in this report is based on the nC₁₇/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996). Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory is not aware.

Client Name:	Worley Parsons
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EMT Job No.: 25/4497

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REPORTS FROM THE SOUTH AFRICA LABORATORY

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Measurement Uncertainty

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NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
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+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
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*	Analysis subcontracted to an Element Materials Technology approved laboratory.
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

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

EMT Job No: 25/4497

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM1	Modified USEPA 8015B v2:1996 method for the determination of carbon banding in oil and product samples by GC-FID.	PM0	No preparation is required.			AR	
TM1	Modified USEPA 8015B v2:1996 method for the determination of carbon banding in oil and product samples by GC-FID.	PM0	No preparation is required.	Yes		AR	
TM11	Determination of density by a meter.	PM0	No preparation is required.			AR	

Worley Parsons
2nd Floor
Bull Wharf
Redcliff Street
Bristol
United Kingdom
BS1 6QR



Attention : Brooke Davison
Date : 1st April, 2025
Your reference : 415001-00017_00401
Our reference : Test Report 25/4497 Batch 1 Schedule B
Location : Brick Kiln Street, Hinckley
Date samples received : 21st March, 2025
Status : Final Report
Issue : 202504011634

One sample was received for analysis on 21st March, 2025 and was scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 0.145 kg of CO2

Scope 1&2&3 emissions - 0.342 kg of CO2

Authorised By:



Simon Gomery BSc

Senior Technical Account Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Worley Parsons
Reference: 415001-00017_00401
Location: Brick Kiln Street, Hinckley
Contact: Brooke Davison
EMT Job No: 25/4497

Report : Product

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HN0₃

[illegible]

Matrix : Product

[illegible]

Client Name:	Worley Parsons
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EMT Job No: 25/4497

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Subcontracted	See attached subcontractor report for accreditation status and provider.						



SGS United Kingdom Ltd
Ellesmere Port
CH65 3EN
United Kingdom
Tel: 0151 3506669

Make:		Sample No:		8121794			
Model:		Location:		ELEMENT ENVIRONMENTAL LABS DEESIDE			
Serial No:		25/4497-2		Client:		ELEMENT ENVIRONMENTAL LABS DEESIDE	
System:		OTHER		Kit Ref/Bottle No:			
Brand:		NOT GIVEN		Job No.:		GB0510929890	
Grade:				Sampled:			
Unique No.:		6401650		Received:		31/03/25	
Diagnosis		Key:	Normal	Caution	Serious	Diagnostician: Sean George	

Sample is too thick to obtain a viscosity result.

Results	Current Sample	Historical Samples
Sample No	8121794	
Status		
Sampled		
Fluid Age		
Unit Age		
Received	31/03/25	
Fluid Condition		
Appearance	- LM-12	N/A

Worley Consulting
5 Seaward Place
G41 1HH

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

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

e: leanne.carr@worley.com
brooke.davison@worley.com
inrid.laubscher@worlev.com

Analytical Report Number : 25-013752

Replaces Analytical Report Number: 25-013752, issue no. 1
Additional analysis undertaken.
VOCs added to sample 486603 as per clients request

Project / Site name:	Cadent Hinckley	Samples received on:	18/03/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	19/03/2025
Your order number:	415001-00017 00401	Analysis completed by:	03/04/2025
Report Issue Number:	2	Report issued on:	03/04/2025
Samples Analysed:	25 water samples		

Signed:



Matthew O'Connell
Key Account 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
air - once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486584	486585	486586	486587	486588
Sample Reference				CBH102	CBH104	CBH108	CBH112	DUP-1
Sample Number				CBH102/17032025/ 1340	CBH104/17032025/ 1403	CBH108/17032025/ 1535	CBH112/17032025/ 1625	DUP/17032025/105 9
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
Time Taken				1340	1403	1535	1625	1059
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					

General Inorganics

pH (L099)	pH Units	N/A	NONE	7	7.2	7.1	7.1	7.3
Electrical Conductivity at 20°C	µS/cm	10	NONE	2100	3800	5600	3000	1200
Total Cyanide	mg/l	0.01	NONE	0.45	0.23	1.2	0.48	< 0.01
Complex Cyanide	mg/l	0.01	NONE	0.45	0.23	1.2	0.48	< 0.01
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	< 0.2	0.2	0.5	0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	NONE	547	690	1220	461	217
Elemental Sulphur	mg/l	0.02	NONE	0.04	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	NONE	340	930	1700 ^{SS}	690	140
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	1.1	0.11	18	11	0.21
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	6.62	6.65	10.3	7.6	2.33
Total Organic Carbon (TOC)	mg/l	0.1	NONE	6.94	6.95	10.6	7.72	2.42
Alkalinity as CaCO ₃	mgCaCO ₃ / l	3	NONE	290	510	530	430	330
Total Suspended Solids (L004B)	mg/l	2	NONE	82	69	26	16	730
Hardness - Total	mgCaCO ₃ / l	1	NONE	629	1090	1460	561	569

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	0.35	0.29	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	0.35	0.29	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	mg/l	0.00001	NONE	0.00008	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	0.0001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	0.00007	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	mg/l	0.00001	NONE	0.00008	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	486584	486585	486586	486587	486588
Sample Reference	CBH102	CBH104	CBH108	CBH112	DUP-1
Sample Number	CBH102/17032025/ 1340	CBH104/17032025/ 1403	CBH108/17032025/ 1535	CBH112/17032025/ 1625	DUP/17032025/105 9
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
Time Taken	1340	1403	1535	1625	1059
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	0.00033	< 0.00016	< 0.00016	< 0.00016	< 0.00016
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.00095	0.00063	0.00072	0.00035	0.0031
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00004	0.00028	0.00021	0.00008	0.00003
Chromium (dissolved)	mg/l	0.0002	NONE	0.00049	0.0005	0.00048	0.00044	0.00032
Copper (dissolved)	mg/l	0.0005	NONE	0.003	0.006	0.0057	0.0055	0.003
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0027	0.0068	0.0042	0.0036	0.0039
Selenium (dissolved)	mg/l	0.0006	NONE	0.0007	0.0013	0.0016	0.0043	< 0.0006
Zinc (dissolved)	mg/l	0.0005	NONE	0.0175	0.0499	0.0142	0.0058	0.007

Calcium (dissolved)	mg/l	0.012	NONE	220	370	470	170	150
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.21	0.11	0.46	0.22	0.009

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aliphatic >EC10 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 HS+EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 EH 2D AR #1 #2	mg/l	0.01	NONE	0.05	< 0.01	0.03	< 0.01	< 0.01
TPH - Aromatic >EC12 - EC16 EH 2D AR #1 #2	mg/l	0.01	NONE	0.05	< 0.01	0.04	< 0.01	< 0.01
TPH - Aromatic >EC16 - EC21 EH 2D AR #1 #2	mg/l	0.01	NONE	0.07	< 0.01	0.05	< 0.01	< 0.01
TPH - Aromatic >EC21 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	0.26	< 0.01	0.2	< 0.01	< 0.01
Total TPH Aromatic >EC10 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	0.43	< 0.01	0.31	< 0.01	< 0.01
TPH - Aromatic >EC5 - EC35 HS+EH 2D AR #1 #2	mg/l	0.01	NONE	0.43	< 0.01	0.31	< 0.01	< 0.01

TPH (EC10 - EC40) EH 2D TOTAL #1 #2	mg/l	0.01	NONE	0.55	< 0.01	0.34	< 0.01	< 0.01
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TPH Total >C5 - C35 Aliphatic & Aromatic HS+EH 1D TOTAL #5	mg/l	0.01	NONE	0.43	< 0.01	0.31	< 0.01	< 0.01
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486584	486585	486586	486587	486588
Sample Reference				CBH102	CBH104	CBH108	CBH112	DUP-1
Sample Number				CBH102/17032025/ 1340	CBH104/17032025/ 1403	CBH108/17032025/ 1535	CBH112/17032025/ 1625	DUP/17032025/105 9
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
Time Taken				1340	1403	1535	1625	1059
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Chloromethane	mg/l	0.003	NONE	-	-	-	-	-
Chloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromomethane	mg/l	0.003	NONE	-	-	-	-	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Chloroform	mg/l	0.003	NONE	-	-	-	-	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbontetrachloride	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Trichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Dibromomethane	mg/l	0.003	NONE	-	-	-	-	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	-	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	-	-
Chlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	mg/l	0.003	NONE	-	-	-	-	-
Bromoform	mg/l	0.003	NONE	-	-	-	-	-
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromobenzene	mg/l	0.003	NONE	-	-	-	-	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	-	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486584	486585	486586	486587	486588
Sample Reference				CBH102	CBH104	CBH108	CBH112	DUP-1
Sample Number				CBH102/17032025/ 1340	CBH104/17032025/ 1403	CBH108/17032025/ 1535	CBH112/17032025/ 1625	DUP/17032025/105 9
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
Time Taken				1340	1403	1535	1625	1059
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 28	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 52	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 101	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 118	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 138	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 153	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 180	mg/l	0.00002	NONE	-	-	-	-	-
Total ICES-7 PCBs	mg/l	0.00014	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486589	486590	486591	486592	486593
Sample Reference				DUP-2	DUP-3	DUP-4	MW25-01	MW25-02
Sample Number				DUP/17032025/124 2	DUP/17032025/150 5	DUP/17032025/153 5	MW25-01/17032025/1325	MW25-02/17032025/1043
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
Time Taken				1242	1505	1535	1325	1043
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.1	7.4	7.1	7.5	7.5
Electrical Conductivity at 20°C	µS/cm	10	NONE	1700	950	5600	1600	840
Total Cyanide	mg/l	0.01	NONE	0.41	< 0.01	1.2	0.03	< 0.01
Complex Cyanide	mg/l	0.01	NONE	0.41	< 0.01	1.2	0.03	< 0.01
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	0.2	< 0.2	0.4	< 0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	NONE	282	118	1330	262	67.4
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	NONE	240	88	1700 ^{SS}	210	93
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	3.4	< 0.015	18	2.4	0.2
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	3.35	1.88	10.3	6.3	2.08
Total Organic Carbon (TOC)	mg/l	0.1	NONE	3.45	1.92	10.5	6.4	2.22
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	400	290	540	370	280
Total Suspended Solids (L004B)	mg/l	2	NONE	71	750	59	180	77
Hardness - Total	mgCaCO ₃ /l	1	NONE	486	414	1450	428	321

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	0.36	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	0.36	< 0.0035	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	486589	486590	486591	486592	486593
Sample Reference	DUP-2	DUP-3	DUP-4	MW25-01	MW25-02
Sample Number	DUP/17032025/124 2	DUP/17032025/150 5	DUP/17032025/153 5	MW25-01/17032025/1325	MW25-02/17032025/1043
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
Time Taken	1242	1505	1535	1325	1043
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.00059	0.0011	0.0007	0.0012	0.0012
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00002	0.00004	0.00023	0.00005	< 0.00002
Chromium (dissolved)	mg/l	0.0002	NONE	< 0.00020	0.00036	0.00068	0.00025	< 0.00020
Copper (dissolved)	mg/l	0.0005	NONE	0.0028	0.0021	0.017	0.0051	0.0015
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0055	0.0036	0.0044	0.0054	0.0014
Selenium (dissolved)	mg/l	0.0006	NONE	0.0008	0.0006	0.0017	0.0009	< 0.0006
Zinc (dissolved)	mg/l	0.0005	NONE	0.0031	0.0026	0.0132	0.0027	0.0016

Calcium (dissolved)	mg/l	0.012	NONE	150	130	480	130	99
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.19	0.008	0.45	0.042	0.017

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aliphatic >EC10 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 HS+EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC12 - EC16 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC16 - EC21 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC21 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aromatic >EC10 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC5 - EC35 HS+EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH (EC10 - EC40) EH 2D TOTAL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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TPH Total >C5 - C35 Aliphatic & Aromatic HS+EH 1D TOTAL #5	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486589	486590	486591	486592	486593
Sample Reference				DUP-2	DUP-3	DUP-4	MW25-01	MW25-02
Sample Number				DUP/17032025/124 2	DUP/17032025/150 5	DUP/17032025/153 5	MW25-01/17032025/1325	MW25-02/17032025/1043
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
Time Taken				1242	1505	1535	1325	1043
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Chloromethane	mg/l	0.003	NONE	-	-	-	-	-
Chloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromomethane	mg/l	0.003	NONE	-	-	-	-	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Chloroform	mg/l	0.003	NONE	-	-	-	-	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbontetrachloride	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Trichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Dibromomethane	mg/l	0.003	NONE	-	-	-	-	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	-	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	-	-
Chlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	mg/l	0.003	NONE	-	-	-	-	-
Bromoform	mg/l	0.003	NONE	-	-	-	-	-
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromobenzene	mg/l	0.003	NONE	-	-	-	-	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	-	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486589	486590	486591	486592	486593
Sample Reference				DUP-2	DUP-3	DUP-4	MW25-01	MW25-02
Sample Number				DUP/17032025/124 2	DUP/17032025/150 5	DUP/17032025/153 5	MW25-01/17032025/1325	MW25-02/17032025/1043
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
Time Taken				1242	1505	1535	1325	1043
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 28	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 52	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 101	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 118	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 138	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 153	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 180	mg/l	0.00002	NONE	-	-	-	-	-
Total ICES-7 PCBs	mg/l	0.00014	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	486594	486595	486596	486597	486598
Sample Reference	MW25-03	MW25-04A	MW25-05A	MW25-06	MW25-08
Sample Number	MW25-03/17032025/1059	MW25-04A/17032025/1320	MW25-05A/18032025/0948	MW25-06/17032025/1216	MW25-08/17032025/1210
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	17/03/2025	17/03/2025	18/03/2025	17/03/2025	17/03/2025
Time Taken	1059	1320	0948	1216	1210
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.3	7.3	7.2	7.3	7.1
Electrical Conductivity at 20°C	µS/cm	10	NONE	1200	2000	1500	1100	3300
Total Cyanide	mg/l	0.01	NONE	< 0.01	0.04	0.03	< 0.01	0.79
Complex Cyanide	mg/l	0.01	NONE	< 0.01	0.04	0.03	< 0.01	0.79
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	1.2
Sulphate as SO ₄	mg/l	0.045	NONE	220	338	169	208	1580
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	NONE	140	360	280	61	330
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	0.24	7.1	0.59	0.068	36
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	2.71	5.59	2.74	2.23	51.4
Total Organic Carbon (TOC)	mg/l	0.1	NONE	5.24	5.86	2.8	2.28	53.1
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	340	340	360	400	450
Total Suspended Solids (L004B)	mg/l	2	NONE	220	56	360	280	340
Hardness - Total	mgCaCO ₃ /l	1	NONE	520	550	543	489	1380

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00028
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00019
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00015
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00019
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00004	< 0.00001	0.00067
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00027
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.0001	< 0.00001	0.0011
Pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00011	< 0.00001	0.00098
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00005	< 0.00001	0.00044
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00004	< 0.00001	0.00042
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00026
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.0003

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	486594	486595	486596	486597	486598
Sample Reference	MW25-03	MW25-04A	MW25-05A	MW25-06	MW25-08
Sample Number	MW25-03/17032025/1059	MW25-04A/17032025/1320	MW25-05A/18032025/0948	MW25-06/17032025/1216	MW25-08/17032025/1210
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	17/03/2025	17/03/2025	18/03/2025	17/03/2025	17/03/2025
Time Taken	1059	1320	0948	1216	1210
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	< 0.00016	0.00034	< 0.00016	0.0053
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.0032	0.00057	0.0019	0.0014	0.0044
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00003	0.00004	0.00007	< 0.00002	< 0.00002
Chromium (dissolved)	mg/l	0.0002	NONE	0.00096	< 0.00020	0.0018	0.00022	0.00086
Copper (dissolved)	mg/l	0.0005	NONE	0.0031	0.0033	0.0058	0.0027	0.0006
Lead (dissolved)	mg/l	0.0002	NONE	0.0003	< 0.0002	0.0007	< 0.0002	0.0003
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0041	0.0055	0.0064	0.0031	0.0034
Selenium (dissolved)	mg/l	0.0006	NONE	< 0.0006	0.0008	0.001	< 0.0006	0.0051
Zinc (dissolved)	mg/l	0.0005	NONE	0.0064	0.0048	0.0068	0.0034	0.0021

Calcium (dissolved)	mg/l	0.012	NONE	140	170	170	150	460
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.062	0.028	0.14	0.006	1.6

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.03
TPH - Aliphatic >EC16 - EC21 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.03
TPH - Aliphatic >EC21 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.18
Total TPH Aliphatic >EC10 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.24
TPH - Aliphatic >EC5 - EC35 HS+EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.24

TPH - Aromatic >EC5 - EC7 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.04
TPH - Aromatic >EC12 - EC16 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.08
TPH - Aromatic >EC16 - EC21 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.05
TPH - Aromatic >EC21 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.39
Total TPH Aromatic >EC10 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.56
TPH - Aromatic >EC5 - EC35 HS+EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.56

TPH (EC10 - EC40) EH 2D TOTAL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.85
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TPH Total >C5 - C35 Aliphatic & Aromatic HS+EH 1D TOTAL #5	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.8
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486594	486595	486596	486597	486598
Sample Reference				MW25-03	MW25-04A	MW25-05A	MW25-06	MW25-08
Sample Number				MW25-03/17032025/1059	MW25-04A/17032025/1320	MW25-05A/18032025/0948	MW25-06/17032025/1216	MW25-08/17032025/1210
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				17/03/2025	17/03/2025	18/03/2025	17/03/2025	17/03/2025
Time Taken				1059	1320	0948	1216	1210
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Chloromethane	mg/l	0.003	NONE	-	-	-	-	-
Chloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromomethane	mg/l	0.003	NONE	-	-	-	-	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Chloroform	mg/l	0.003	NONE	-	-	-	-	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbontetrachloride	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Trichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Dibromomethane	mg/l	0.003	NONE	-	-	-	-	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	-	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	-	-
Chlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	mg/l	0.003	NONE	-	-	-	-	-
Bromoform	mg/l	0.003	NONE	-	-	-	-	-
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromobenzene	mg/l	0.003	NONE	-	-	-	-	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	-	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-

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Lab Sample Number				486594	486595	486596	486597	486598
Sample Reference				MW25-03	MW25-04A	MW25-05A	MW25-06	MW25-08
Sample Number				MW25-03/17032025/1059	MW25-04A/17032025/1320	MW25-05A/18032025/0948	MW25-06/17032025/1216	MW25-08/17032025/1210
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				17/03/2025	17/03/2025	18/03/2025	17/03/2025	17/03/2025
Time Taken				1059	1320	0948	1216	1210
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 28	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 52	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 101	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 118	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 138	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 153	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 180	mg/l	0.00002	NONE	-	-	-	-	-

Total ICES-7 PCBs	mg/l	0.00014	NONE	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Lab Sample Number				486599	486600	486601	486602	486603
Sample Reference				MW25-11	MW25-12	MW25-14	MW25-15C	MW25-17
Sample Number				MW25-11/18032025/1040	MW25-12/18032025/1115	MW25-14/18032025/1050	MW25-15C/18032025/1130	MW25-17/17032025/1600
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	17/03/2025
Time Taken				1040	1115	1050	1130	1600
Analytical Parameter (Water Analysis)				Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.5	7.1	7.4	7.3	10.4
Electrical Conductivity at 20°C	µS/cm	10	NONE	2000	2100	3400	2700	7100
Total Cyanide	mg/l	0.01	NONE	0.74	0.31	4.5	1.1	3.3
Complex Cyanide	mg/l	0.01	NONE	0.74	0.31	4.4	1.1	3.3
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	0.03	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	0.3	< 0.2	4.1	0.4	1.3
Sulphate as SO ₄	mg/l	0.045	NONE	851	211	1730	874	1630
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	2.3
Chloride	mg/l	0.15	NONE	200	510	350	460	1900 ^{SS}
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	0.095	7	46	7.4	14
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	4.29	3.57	22.8	5.12	43.9
Total Organic Carbon (TOC)	mg/l	0.1	NONE	4.64	3.85	23.1	5.23	44.1
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	240	250	95	280	120
Total Suspended Solids (L004B)	mg/l	2	NONE	35	150	190	450	38
Hardness - Total	mgCaCO ₃ /l	1	NONE	833	300	1640	978	1520

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	0.11	0.16
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035	0.11	0.16
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	0.00038	< 0.00001	< 0.00001	0.19
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.0013
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00068	< 0.00001	0.009
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00082	< 0.00001	0.0056
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.0012	< 0.00001	0.0059
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00041	< 0.00001	0.0012
Pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00045	< 0.00001	0.00067
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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Lab Sample Number	486599	486600	486601	486602	486603
Sample Reference	MW25-11	MW25-12	MW25-14	MW25-15C	MW25-17
Sample Number	MW25-11/18032025/1040	MW25-12/18032025/1115	MW25-14/18032025/1050	MW25-15C/18032025/1130	MW25-17/17032025/1600
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	18/03/2025	18/03/2025	18/03/2025	17/03/2025
Time Taken	1040	1115	1050	1130	1600
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	0.00038	0.0036	< 0.00016	0.21
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.0007	0.00036	0.0091	0.00074	0.059
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00006	0.00005	0.00002	0.00018	0.00003
Chromium (dissolved)	mg/l	0.0002	NONE	0.00027	0.00023	0.0015	0.00059	0.00093
Copper (dissolved)	mg/l	0.0005	NONE	0.0059	0.0019	0.0021	0.0035	0.0008
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	0.0007	0.0004	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00106
Nickel (dissolved)	mg/l	0.0005	NONE	0.0049	0.0042	0.014	0.0034	0.023
Selenium (dissolved)	mg/l	0.0006	NONE	0.0006	< 0.0006	0.015	0.0051	0.0055
Zinc (dissolved)	mg/l	0.0005	NONE	0.0047	0.0059	0.005	0.008	0.0016

Calcium (dissolved)	mg/l	0.012	NONE	310	98	570	340	610
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.31	0.2	1.9	0.5	1.7

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aliphatic >EC10 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 HS+EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.04
TPH - Aromatic >EC7 - EC8 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.013
TPH - Aromatic >EC8 - EC10 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	0.075	< 0.0010	0.07
TPH - Aromatic >EC10 - EC12 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	0.64	< 0.01	1.6
TPH - Aromatic >EC12 - EC16 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	0.43	< 0.01	0.78
TPH - Aromatic >EC16 - EC21 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	0.18	< 0.01	0.69
TPH - Aromatic >EC21 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	0.29	< 0.01	1.15
Total TPH Aromatic >EC10 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	1.54	< 0.01	4.23
TPH - Aromatic >EC5 - EC35 HS+EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	1.61	< 0.01	4.35

TPH (EC10 - EC40) EH 2D TOTAL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	1.54	< 0.01	4.26
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TPH Total >C5 - C35 Aliphatic & Aromatic HS+EH 1D TOTAL #5	mg/l	0.01	NONE	< 0.01	< 0.01	1.61	< 0.01	4.35
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.039
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.012
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	0.007	< 0.001	0.01

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Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486599	486600	486601	486602	486603
Sample Reference				MW25-11	MW25-12	MW25-14	MW25-15C	MW25-17
Sample Number				MW25-11/18032025/1040	MW25-12/18032025/1115	MW25-14/18032025/1050	MW25-15C/18032025/1130	MW25-17/17032025/1600
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	17/03/2025
Time Taken				1040	1115	1050	1130	1600
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	0.042	< 0.001	0.016
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	0.018	< 0.001	0.01

Chloromethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Chloroethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Bromomethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Chloroform	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.039
Carbontetrachloride	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Trichloroethene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Dibromomethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.012
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Chlorobenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	0.007	< 0.001	0.01
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	0.042	< 0.001	0.016
Styrene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Bromoform	mg/l	0.003	NONE	-	-	-	-	< 0.0030
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	0.018	< 0.001	0.01
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Bromobenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	0.0231
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486599	486600	486601	486602	486603
Sample Reference				MW25-11	MW25-12	MW25-14	MW25-15C	MW25-17
Sample Number				MW25-11/18032025/1040	MW25-12/18032025/1115	MW25-14/18032025/1050	MW25-15C/18032025/1130	MW25-17/17032025/1600
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	17/03/2025
Time Taken				1040	1115	1050	1130	1600
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	-	0.0053
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	0.011
Butylbenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	-	< 0.0030
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	< 0.0030

PCBs by GC-MS

PCB Congener 28	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 52	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 101	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 118	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 138	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 153	mg/l	0.00002	NONE	-	-	-	-	-
PCB Congener 180	mg/l	0.00002	NONE	-	-	-	-	-

Total ICES-7 PCBs	mg/l	0.00014	NONE	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	486604	486605	486606	486607	486608
Sample Reference	MW25-18	MW25-28A	MW25-35	MW25-36	Trip Blank
Sample Number	MW25-18/18032025/1010	MW25-28/17032025/1505	MW25-35/18032025/0933	MW25-36/17032025/1242	TripBlank/261124
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	17/03/2025	18/03/2025	17/03/2025	17/03/2025
Time Taken	1010	1505	0933	1242	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.4	7.5	7.3	7.1	6
Electrical Conductivity at 20°C	µS/cm	10	NONE	2000	960	2400	1800	< 10
Total Cyanide	mg/l	0.01	NONE	0.46	< 0.01	0.17	0.34	< 0.01
Complex Cyanide	mg/l	0.01	NONE	0.46	< 0.01	0.17	0.34	< 0.01
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	NONE	473	124	383	364	1.41
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	NONE	260	88	610	240	0.16
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	0.96	< 0.015	2.7	3.4	< 0.015
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	6.37	1.71	2.85	3.37	0.88
Total Organic Carbon (TOC)	mg/l	0.1	NONE	6.63	1.78	2.88	3.6	0.9
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	290	300	320	360	13
Total Suspended Solids (L004B)	mg/l	2	NONE	75	270	120	56	5.4
Hardness - Total	mgCaCO ₃ /l	1	NONE	665	434	619	653	5.2

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.0022	< 0.00001	< 0.00001
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00028	< 0.00001	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00013	< 0.00001	< 0.00001
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00024	< 0.00001	< 0.00001
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00032	< 0.00001	< 0.00001
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00016	< 0.00001	< 0.00001
Pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00013	< 0.00001	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	486604	486605	486606	486607	486608
Sample Reference	MW25-18	MW25-28A	MW25-35	MW25-36	Trip Blank
Sample Number	MW25-18/18032025/1010	MW25-28/17032025/1505	MW25-35/18032025/0933	MW25-36/17032025/1242	TripBlank/261124
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	17/03/2025	18/03/2025	17/03/2025	17/03/2025
Time Taken	1010	1505	0933	1242	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	< 0.00016	0.0035	< 0.00016	< 0.00016
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.0028	0.0012	0.00039	0.00054	< 0.00015
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00012	0.00006	0.00004	0.00002	< 0.00002
Chromium (dissolved)	mg/l	0.0002	NONE	0.00074	0.00034	< 0.00020	< 0.00020	< 0.00020
Copper (dissolved)	mg/l	0.0005	NONE	0.0083	0.0022	0.0033	0.0023	0.0015
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.006	0.004	0.0031	0.0058	< 0.0005
Selenium (dissolved)	mg/l	0.0006	NONE	0.0078	0.0009	0.0011	0.001	< 0.0006
Zinc (dissolved)	mg/l	0.0005	NONE	0.0052	0.0022	0.008	0.0049	0.0019

Calcium (dissolved)	mg/l	0.012	NONE	230	140	190	200	1
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.21	0.016	0.11	0.18	< 0.004

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 HS 1D AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aliphatic >EC10 - EC35 EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 HS+EH 2D AL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 HS 1D AR	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC12 - EC16 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC16 - EC21 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC21 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aromatic >EC10 - EC35 EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC5 - EC35 HS+EH 2D AR #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH (EC10 - EC40) EH 2D TOTAL #1 #2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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TPH Total >C5 - C35 Aliphatic & Aromatic HS+EH 1D TOTAL #5	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486604	486605	486606	486607	486608
Sample Reference				MW25-18	MW25-28A	MW25-35	MW25-36	Trip Blank
Sample Number				MW25-18/18032025/1010	MW25-28/17032025/1505	MW25-35/18032025/0933	MW25-36/17032025/1242	TripBlank/261124
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	17/03/2025	18/03/2025	17/03/2025	17/03/2025
Time Taken				1010	1505	0933	1242	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Chloromethane	mg/l	0.003	NONE	-	-	-	-	-
Chloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromomethane	mg/l	0.003	NONE	-	-	-	-	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Chloroform	mg/l	0.003	NONE	-	-	-	-	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbontetrachloride	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Trichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Dibromomethane	mg/l	0.003	NONE	-	-	-	-	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	-	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	-	-
Chlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	mg/l	0.003	NONE	-	-	-	-	-
Bromoform	mg/l	0.003	NONE	-	-	-	-	-
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromobenzene	mg/l	0.003	NONE	-	-	-	-	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	-	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-

Analytical Report Number: 25-013752
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				486604	486605	486606	486607	486608
Sample Reference				MW25-18	MW25-28A	MW25-35	MW25-36	Trip Blank
Sample Number				MW25-18/18032025/1010	MW25-28/17032025/1505	MW25-35/18032025/0933	MW25-36/17032025/1242	TripBlank/261124
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	17/03/2025	18/03/2025	17/03/2025	17/03/2025
Time Taken				1010	1505	0933	1242	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 28	mg/l	0.00002	NONE	-	-	< 0.00002	-	-
PCB Congener 52	mg/l	0.00002	NONE	-	-	< 0.00002	-	-
PCB Congener 101	mg/l	0.00002	NONE	-	-	< 0.00002	-	-
PCB Congener 118	mg/l	0.00002	NONE	-	-	< 0.00002	-	-
PCB Congener 138	mg/l	0.00002	NONE	-	-	< 0.00002	-	-
PCB Congener 153	mg/l	0.00002	NONE	-	-	< 0.00002	-	-
PCB Congener 180	mg/l	0.00002	NONE	-	-	< 0.00002	-	-
Total ICES-7 PCBs	mg/l	0.00014	NONE	-	-	< 0.00014	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-013752

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Suspended Solids in water	Determined gravimetrically with GFC filtration papers. Accredited matrices: SW, PW, GW, PrW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004B	W	NONE
Elemental Sulphur in water	Determination of elemental sulphur in waters by extraction in dichloromethane followed by GC-MS	In-house method: Sample is extracted in dichloromethane prior to analysis by GC-MS	L021B	W	NONE
PCB's By GC-MS in water	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L028B	W	NONE
Electrical Conductivity at 20°C in water	Determination of electrical conductivity in water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE	In-house method	L031B	W	NONE
Dissolved Organic Carbon in water	Determination of dissolved organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Total Organic Carbon in water	Determination of total organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Total Hardness of water	Determination of total hardness of water by calculation from calcium and magnesium. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045B	W	NONE
BTEX and/or 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 USEPA 8260	L073B	W	NONE
Alkalinity of water (discrete analyser)	Determination of alkalinity of water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on MEWAM & USEPA Method 310.2	L082B	W	NONE
Chloride in water	Determination of chloride in water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house based on MEWAM Method ISBN 0117516260	L082B	W	NONE
Thiocyanate in water	Determination of thiocyanate in water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW	In-house method based on SMWW 4500-CN-M	L082B	W	NONE
Total Petroleum Hydrocarbons in water by HS-GC-MS	Determination of total petroleum hydrocarbons in water by headspace GC-MS. Accredited matrices: SW, PW, GW	In-house method	L088-PL	W	NONE
pH of water at 20°C (automated)	Determination of pH of water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE, LL	In-house method	L099-PL	W	NONE
Total Petroleum Hydrocarbons with carbon banding in water by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GCxGC FID with carbon banding aliphatic and aromatic C10-C35. Accredited matrices: SW, PW, GW	In-house method	L101B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds (including PAHs) in water by extraction in dichloromethane followed by GC-MS. Accredited matrices (PAHs): SW, PW, GW	In-house method based on USEPA 8270	L102B	W	NONE
Total Petroleum Hydrocarbons in water by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GCxGC-FID. Accredited matrices: SW, PW, GW	In-house method	L101B	W	NONE

Analytical Report Number : 25-013752

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Complex Cyanide in water	Determination of complex cyanide in water by calculation. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Free cyanide in water	Determination of free cyanide in water by distillation followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Total cyanide in water	Determination of total cyanide in water by distillation followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Ammonium as NH4 in water	Determination of ammonium/ammonia/ammoniacal nitrogen by the colorimetric salicylate/nitroprusside method using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5-diphenylcarbazide, followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method by continuous flow analyser	L080-PL	W	NONE
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited matrices: SW, PW, GW, PrW, DI PrW, FSE, LL	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	NONE
Sulphide in water	Determination of sulphide in water by ion selective electrode	In-house method	L029-PL	W	NONE
Phenols, speciated, in water by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	W	NONE
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited matrices: SW, PW, GW, 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	L012B	W	NONE

Analytical Report Number : 25-013752

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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, PW, GW, FSE, LL; PrW, DI PrW (Al, Cu, Fe, Zn)	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\$\$ - Result was reported from high dilution. The result should be interpreted with caution.

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
brooke.davison@worley.com
inrid.laubscher@worlev.com

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 : 25-013862

Replaces Analytical Report Number: 25-013862, issue no. 1

Additional analysis undertaken.

VOCs added to samples 487181, 487186 & 487191 and SVOCs added to samples 487181 & 487186 as per clients request

Project / Site name:	Cadent Hinckley	Samples received on:	19/03/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	19/03/2025
Your order number:	415001 00017 00401	Analysis completed by:	04/04/2025
Report Issue Number:	2	Report issued on:	07/04/2025
Samples Analysed:	14 water samples		

Signed:



Matthew O'Connell
Key Account 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
air	- once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.

Some records may be kept for longer according to other legal/best practice requirements.

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: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	487178	487179	487180	487181	487182
Sample Reference	MW25-07	MW25-09C	MW25-16A-D	MW25-16A-S	MW25-19A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	1240	1200	1315	1515	1243
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.2	7.6	7.5	7.6	7.3
Electrical Conductivity at 20°C	µS/cm	10	NONE	2100	2500	6900	4700	1800
Total Cyanide	mg/l	0.01	NONE	0.57	1.5	0.48	0.51	< 0.01
Complex Cyanide	mg/l	0.01	NONE	0.57	1.5	0.47	0.51	< 0.01
Free Cyanide	mg/l	0.01	NONE	< 0.01	0.02	0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	0.3	0.6	0.9	1.7	< 0.2
Sulphate as SO ₄	mg/l	0.045	NONE	913	1280	71	445	114
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	0.013	< 0.005
Chloride	mg/l	0.15	NONE	180	170	1900 ^{§§}	1400 ^{§§}	470
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	2.7	3.1	600 ^{§§}	88	3.3
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	4.74	7.99	29.1	53.8	3.24
Total Organic Carbon (TOC)	mg/l	0.1	NONE	5.25	8.16	30.5	172	3.26
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	370	450	760	590	310
Total Suspended Solids (L004B)	mg/l	2	NONE	110	54	200	3400	16
Hardness - Total	mgCaCO ₃ /l	1	NONE	1110	1330	372	483	326

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	0.26	0.11	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	0.88	0.79	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	0.41	0.89	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	1.5	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	1.4	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	6.6	3.4	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	2.4	2.4	< 0.0005

Phenols by GC-MS

4-Chlorophenol	mg/l	0.0001	NONE	-	-	-	-	-
3,5-Dimethylphenol	mg/l	0.0001	NONE	-	-	-	-	-

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	13	7.6	< 0.0035
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Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	487178	487179	487180	487181	487182
Sample Reference	MW25-07	MW25-09C	MW25-16A-D	MW25-16A-S	MW25-19A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	1240	1200	1315	1515	1243
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	0.015	4.9	2.3	0.00049
Acenaphthylene	mg/l	0.00001	NONE	0.00004	0.0009	0.19	0.56	0.00004
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	0.01	0.017	0.12	< 0.00001
Fluorene	mg/l	0.00001	NONE	< 0.00001	0.00064	0.039	0.39	< 0.00001
Phenanthrene	mg/l	0.00001	NONE	0.00004	0.0004	0.052	1.1	< 0.00001
Anthracene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.012	0.36	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	0.00085	0.018	0.81	< 0.00001
Pyrene	mg/l	0.00001	NONE	0.00008	0.00062	0.013	0.62	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.004	0.29	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.0033	0.25	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	<0.00020 [§]	0.28	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	<0.00020 [§]	0.13	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.0036	0.27	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.0017	0.12	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.00028	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.002	0.13	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	0.00016	0.028	5.2	7.7	0.00053
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.00061	0.0084	0.0094	0.018	0.0054
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00017	< 0.00002	< 0.00002	< 0.00002	0.00005
Chromium (dissolved)	mg/l	0.0002	NONE	0.00032	0.0031	0.00025	0.0024	0.00068
Copper (dissolved)	mg/l	0.0005	NONE	0.0044	0.0013	0.0011	0.0008	0.0025
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	< 0.0002	0.0004	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.013	0.0009	0.0041	0.0068	0.0059
Selenium (dissolved)	mg/l	0.0006	NONE	0.0022	< 0.0006	0.0027	0.003	0.0018
Zinc (dissolved)	mg/l	0.0005	NONE	0.0071	0.0038	0.0017	0.0046	0.0032

Calcium (dissolved)	mg/l	0.012	NONE	390	470	73	140	110
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.33	0.63	0.37	1	0.009

Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	487178	487179	487180	487181	487182
Sample Reference	MW25-07	MW25-09C	MW25-16A-D	MW25-16A-S	MW25-19A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	1240	1200	1315	1515	1243
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 _{EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	<0.20 [§]	<0.40 [§]	< 0.01
TPH - Aliphatic >EC12 - EC16 _{EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	<0.20 [§]	<0.40 [§]	< 0.01
TPH - Aliphatic >EC16 - EC21 _{EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	<0.20 [§]	<0.40 [§]	< 0.01
TPH - Aliphatic >EC21 - EC35 _{EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	<0.20 [§]	<0.40 [§]	< 0.01
TPH - Aliphatic >EC5 - EC35 _{HS+EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	0.01	4.7 ^{§%}	1.7	< 0.0010
TPH - Aromatic >EC7 - EC8 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	< 0.0010	0.81	0.4	< 0.0010
TPH - Aromatic >EC8 - EC10 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	0.0078	1.5	1.4	< 0.0010
TPH - Aromatic >EC10 - EC12 _{EH 2D AR #1 #2}	mg/l	0.01	NONE	< 0.01	0.29	20.9	25	< 0.01
TPH - Aromatic >EC12 - EC16 _{EH 2D AR #1 #2}	mg/l	0.01	NONE	< 0.01	0.34	5.82	11.1	< 0.01
TPH - Aromatic >EC16 - EC21 _{EH 2D AR #1 #2}	mg/l	0.01	NONE	< 0.01	0.21	1.63	6.69	< 0.01
TPH - Aromatic >EC21 - EC35 _{EH 2D AR #1 #2}	mg/l	0.01	NONE	< 0.01	0.24	1.28	8	< 0.01
TPH - Aromatic >EC5 - EC35 _{HS+EH 2D AR #1 #2}	mg/l	0.01	NONE	< 0.01	1.1	36.6	54.2	< 0.01

TPH (EC10 - EC40) _{EH 2D TOTAL #1 #2}	mg/l	0.01	NONE	< 0.01	1.08	29.9	51.4	< 0.01
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TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH 1D TOTAL MS}	mg/l	0.01	NONE	< 0.01	1.1	36.6	54.2	< 0.01
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VOCs

Chloromethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Chloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Bromomethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Chloroform	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Benzene	mg/l	0.001	NONE	< 0.001	0.008	4.7 ^{§%}	1.7	< 0.001
Carbon tetrachloride	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Trichloroethene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Dibromomethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	0.81	0.4	< 0.001
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	< 0.0030	-

Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number				487178	487179	487180	487181	487182
Sample Reference				MW25-07	MW25-09C	MW25-16A-D	MW25-16A-S	MW25-19A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				1240	1200	1315	1515	1243
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Chlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	0.09	0.098	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	0.002	0.94	0.77	< 0.001
Styrene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Bromoform	mg/l	0.003	NONE	-	-	-	< 0.0030	-
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	0.47	0.5	< 0.001
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Bromobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	0.261	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Butylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	< 0.0030	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030	-

SVOCs

3+4-Methylphenol	mg/l	0.0001	NONE	-	-	-	< 0.0001	-
Aniline	mg/l	0.00005	NONE	-	-	-	0.16	-
Phenol	mg/l	0.00005	NONE	-	-	-	0.13	-
2-Chlorophenol	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Bis(2-chloroethyl)ether	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
1,3-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
1,2-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
1,4-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Bis(2-chloroisopropyl)ether	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2-Methylphenol	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Hexachloroethane	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Nitrobenzene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
4-Methylphenol	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Isophorone	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2-Nitrophenol	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2,4-Dimethylphenol	mg/l	0.00005	NONE	-	-	-	1.2 %	-
Bis(2-chloroethoxy)methane	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
1,2,4-Trichlorobenzene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2,4-Dichlorophenol	mg/l	0.00005	NONE	-	-	-	< 0.00005	-

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Your Order No: 415001 00017 00401

Lab Sample Number				487178	487179	487180	487181	487182
Sample Reference				MW25-07	MW25-09C	MW25-16A-D	MW25-16A-S	MW25-19A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				1240	1200	1315	1515	1243
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
4-Chloroaniline	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Hexachlorobutadiene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
4-Chloro-3-methylphenol	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2,4,6-Trichlorophenol	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2,4,5-Trichlorophenol	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2-Methylnaphthalene	mg/l	0.00005	NONE	-	-	-	1.2 ^{§%}	-
2-Chloronaphthalene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Dimethylphthalate	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2,6-Dinitrotoluene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
2,4-Dinitrotoluene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Dibenzofuran	mg/l	0.00005	NONE	-	-	-	0.43 ^{§%}	-
4-Chlorophenyl phenyl ether	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Diethyl phthalate	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
4-Nitroaniline	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Azobenzene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Bromophenyl phenyl ether	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Hexachlorobenzene	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Carbazole	mg/l	0.00005	NONE	-	-	-	0.25	-
Dibutyl phthalate	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Anthraquinone	mg/l	0.00005	NONE	-	-	-	< 0.00005	-
Butyl benzyl phthalate	mg/l	0.00005	NONE	-	-	-	< 0.00005	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Lab Sample Number	487183	487184	487185	487186	487187
Sample Reference	MW25-21	MW25-22	MW25-23B	MW25-27	MW25-29
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	1330	1155	1640	1610	1545
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.5	11.2	7.7	7.9	7.3
Electrical Conductivity at 20°C	µS/cm	10	NONE	2400	1900	1300	5400	1800
Total Cyanide	mg/l	0.01	NONE	< 0.01	1.4	0.12	0.24	0.17
Complex Cyanide	mg/l	0.01	NONE	< 0.01	1.4	0.12	0.24	0.17
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	< 0.2	1.8	1	9.3	0.3
Sulphate as SO ₄	mg/l	0.045	NONE	83.4	435	65.3	713	306
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	3.6	< 0.005	0.006	< 0.005
Chloride	mg/l	0.15	NONE	750	330	200	700	170
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	< 0.015	6.9	79	640 ^{§§}	76
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	2.44	33.5	38.4	207	15.8
Total Organic Carbon (TOC)	mg/l	0.1	NONE	2.46	34.2	38.9	253	19.1
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	230	180	420	1000	560
Total Suspended Solids (L004B)	mg/l	2	NONE	8.6	2.6	190	100	150
Hardness - Total	mgCaCO ₃ /l	1	NONE	201	259	270	245	496

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	10	0.15
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	2.8	49	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	2.2	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	9.5	0.31
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	17	60	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	8.3	< 0.0005	< 0.0005

Phenols by GC-MS

4-Chlorophenol	mg/l	0.0001	NONE	-	-	Simulated	-	-
3,5-Dimethylphenol	mg/l	0.0001	NONE	-	-	Simulated	-	-

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	30	130	0.46
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Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	487183	487184	487185	487186	487187
Sample Reference	MW25-21	MW25-22	MW25-23B	MW25-27	MW25-29
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	1330	1155	1640	1610	1545
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	0.00032	0.075	2.3	4.1	0.06
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	0.00043	0.15	0.043	0.0013
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	0.014	0.016	0.013	0.0083
Fluorene	mg/l	0.00001	NONE	< 0.00001	0.0069	0.056	0.007	0.0015
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	0.011	0.058	0.0056	0.00087
Anthracene	mg/l	0.00001	NONE	< 0.00001	0.0025	0.022	0.0012	<0.00010 ^a
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	0.0024	0.013	0.0018	<0.00010 ^a
Pyrene	mg/l	0.00001	NONE	< 0.00001	0.0015	0.0091	0.0013	<0.00010 ^a
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	0.00018	<0.00020 ^a	0.00078	<0.00010 ^a
Chrysene	mg/l	0.00001	NONE	< 0.00001	0.0001	<0.00020 ^a	0.00041	<0.00010 ^a
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	<0.00020 ^a	<0.00040 ^a	<0.00010 ^a
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	<0.00020 ^a	<0.00040 ^a	<0.00010 ^a
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	<0.00020 ^a	<0.00040 ^a	<0.00010 ^a
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00066	<0.00040 ^a	<0.00010 ^a
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	<0.00040 ^a	<0.00010 ^a
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.00068 ^a	<0.00040 ^a	<0.00010 ^a

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	0.00032	0.11	2.6	4.1	0.072
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.00071	0.027	0.0045	0.012	0.0012
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00009	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Chromium (dissolved)	mg/l	0.0002	NONE	0.00041	0.00071	0.00034	0.0064	0.00033
Copper (dissolved)	mg/l	0.0005	NONE	0.0031	0.0013	0.0009	0.005	0.001
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	0.0002	< 0.0002	0.0003	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	0.00029	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0012	0.016	0.0044	0.0037	0.0011
Selenium (dissolved)	mg/l	0.0006	NONE	0.0023	0.0048	0.0053	0.0065	0.0015
Zinc (dissolved)	mg/l	0.0005	NONE	0.0063	0.0009	0.0022	0.0188	0.0026

Calcium (dissolved)	mg/l	0.012	NONE	66	100	74	55	150
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	U/S ^a U/S ^a	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.006	0.69	0.17	2.4	0.14

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Lab Sample Number	487183	487184	487185	487186	487187
Sample Reference	MW25-21	MW25-22	MW25-23B	MW25-27	MW25-29
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	1330	1155	1640	1610	1545
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	< 0.01	<0.20 [§]	<0.40 [§]	<0.10 [§]
TPH - Aliphatic >EC12 - EC16 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	< 0.01	<0.20 [§]	<0.40 [§]	<0.10 [§]
TPH - Aliphatic >EC16 - EC21 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	< 0.01	<0.20 [§]	<0.40 [§]	<0.10 [§]
TPH - Aliphatic >EC21 - EC35 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	< 0.01	<0.20 [§]	<0.40 [§]	<0.10 [§]
TPH - Aliphatic >EC5 - EC35 _{HS+EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	0.023	22 [§] %	3.4 [§] %	1.8
TPH - Aromatic >EC7 - EC8 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	0.0043	14 [§] %	1.5	0.037
TPH - Aromatic >EC8 - EC10 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	0.023	4.5	1.4	0.11
TPH - Aromatic >EC10 - EC12 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	< 0.01	1.03	22.2	139	4.94
TPH - Aromatic >EC12 - EC16 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	< 0.01	0.55	12.8	23.9	4.78
TPH - Aromatic >EC16 - EC21 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	< 0.01	0.39	3.52	0.74	0.19
TPH - Aromatic >EC21 - EC35 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	< 0.01	0.4	1.09	2.36	0.54
TPH - Aromatic >EC5 - EC35 _{HS+EH 2D AR #1, #2}	mg/l	0.01	NONE	< 0.01	2.42	79.8	172	12.4

TPH (EC10 - EC40) _{EH 2D TOTAL #1, #2}	mg/l	0.01	NONE	< 0.01	2.36	39.6	166	10.4
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TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH 1D TOTAL MS}	mg/l	0.01	NONE	< 0.01	2.42	79.8	172	12.4
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VOCs

Chloromethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Chloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Bromomethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Chloroform	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Benzene	mg/l	0.001	NONE	< 0.001	0.023	22 [§] %	3.4 [§] %	1.8
Carbon tetrachloride	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Trichloroethene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Dibromomethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Toluene	mg/l	0.001	NONE	< 0.001	0.004	14 [§] %	1.5	0.036
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-

Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number				487183	487184	487185	487186	487187
Sample Reference				MW25-21	MW25-22	MW25-23B	MW25-27	MW25-29
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				1330	1155	1640	1610	1545
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Dibromochloromethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Chlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	0.005	0.28	0.15	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	0.006	2.7	0.76	0.041
Styrene	mg/l	0.003	NONE	-	-	1.54	< 0.0030	-
Bromoform	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
o-xylene	mg/l	0.001	NONE	< 0.001	0.005	1.5	0.49	0.07
Isopropylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Bromobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	0.0521	< 0.0030	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	0.111	0.177	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Butylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-

SVOCs

3+4-Methylphenol	mg/l	0.0001	NONE	-	-	< 0.0001	13	-
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Aniline	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
Phenol	mg/l	0.00005	NONE	-	-	0.06	7.8 ^{9%}	-
2-Chlorophenol	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
Bis(2-chloroethyl)ether	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
1,3-Dichlorobenzene	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
1,2-Dichlorobenzene	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
1,4-Dichlorobenzene	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
Bis(2-chloroisopropyl)ether	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
2-Methylphenol	mg/l	0.00005	NONE	-	-	< 0.00005	18 ^{9%}	-
Hexachloroethane	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
Nitrobenzene	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
4-Methylphenol	mg/l	0.00005	NONE	-	-	< 0.00005	13 ^{9%}	-
Isophorone	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
2-Nitrophenol	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
2,4-Dimethylphenol	mg/l	0.00005	NONE	-	-	6.9 ^{9%}	17 ^{9%}	-
Bis(2-chloroethoxy)methane	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
1,2,4-Trichlorobenzene	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-
2,4-Dichlorophenol	mg/l	0.00005	NONE	-	-	<0.00100 ⁸	< 0.00005	-

Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number				487183	487184	487185	487186	487187
Sample Reference				MW25-21	MW25-22	MW25-23B	MW25-27	MW25-29
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				1330	1155	1640	1610	1545
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
4-Chloroaniline	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Hexachlorobutadiene	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
4-Chloro-3-methylphenol	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
2,4,6-Trichlorophenol	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
2,4,5-Trichlorophenol	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
2-Methylnaphthalene	mg/l	0.00005	NONE	-	-	0.29 ^{§%}	0.12	-
2-Chloronaphthalene	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Dimethylphthalate	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
2,6-Dinitrotoluene	mg/l	0.00005	NONE	-	-	< 0.00005	< 0.00005	-
2,4-Dinitrotoluene	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Dibenzofuran	mg/l	0.00005	NONE	-	-	0.049	0.0079	-
4-Chlorophenyl phenyl ether	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Diethyl phthalate	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
4-Nitroaniline	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Azobenzene	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Bromophenyl phenyl ether	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Hexachlorobenzene	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Carbazole	mg/l	0.00005	NONE	-	-	0.2	0.0054	-
Dibutyl phthalate	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Anthraquinone	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-
Butyl benzyl phthalate	mg/l	0.00005	NONE	-	-	<0.00100 [®]	< 0.00005	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	487188	487189	487190	487191
Sample Reference	MW25-30B	MW25-31A	MW25-32	MW25-33
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	0940	1556	1520	1645
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status	

General Inorganics

pH (L099)	pH Units	N/A	NONE	9.6	7.3	8.1	7.6
Electrical Conductivity at 20°C	µS/cm	10	NONE	1200	1000	2800	1000
Total Cyanide	mg/l	0.01	NONE	4.3	0.04	0.05	0.66
Complex Cyanide	mg/l	0.01	NONE	4.3	0.04	0.05	0.66
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	0.9	< 0.2	0.2	0.3
Sulphate as SO ₄	mg/l	0.045	NONE	583	207	1560	378
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	NONE	73	59	84	27
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	5.1	0.94	240 ^{§§}	0.33
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	14.3	4.09	7.09	9.61
Total Organic Carbon (TOC)	mg/l	0.1	NONE	14.4	4.2	7.46	9.65
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	50	340	190	180
Total Suspended Solids (L004B)	mg/l	2	NONE	16	460	540	220
Hardness - Total	mgCaCO ₃ /l	1	NONE	391	496	569	408

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	0.62	< 0.0005	< 0.0005	0.22
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Phenols by GC-MS

4-Chlorophenol	mg/l	0.0001	NONE	-	-	-	-
3,5-Dimethylphenol	mg/l	0.0001	NONE	-	-	-	-

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	0.62	< 0.0035	< 0.0035	0.22
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Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	487188	487189	487190	487191
Sample Reference	MW25-30B	MW25-31A	MW25-32	MW25-33
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	0940	1556	1520	1645
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	0.27	< 0.00001	0.00028	0.011
Acenaphthylene	mg/l	0.00001	NONE	0.03	< 0.00001	< 0.00001	0.053
Acenaphthene	mg/l	0.00001	NONE	0.0077	< 0.00001	< 0.00001	0.035
Fluorene	mg/l	0.00001	NONE	0.013	< 0.00001	< 0.00001	0.029
Phenanthrene	mg/l	0.00001	NONE	0.0088	< 0.00001	0.00003	0.026
Anthracene	mg/l	0.00001	NONE	0.0031	< 0.00001	< 0.00001	0.0068
Fluoranthene	mg/l	0.00001	NONE	0.0014	< 0.00001	< 0.00001	0.0033
Pyrene	mg/l	0.00001	NONE	0.0013	< 0.00001	< 0.00001	0.0026
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	0.00034
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	0.00022
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	0.33	< 0.00016	0.00031	0.17
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.029	0.00078	0.0013	0.0024
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00003	< 0.00002	< 0.00002	< 0.00002
Chromium (dissolved)	mg/l	0.0002	NONE	0.00036	0.00038	< 0.00020	< 0.00020
Copper (dissolved)	mg/l	0.0005	NONE	0.0016	0.0013	0.0025	0.0015
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	0.00007	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0033	0.0019	0.0014	0.0022
Selenium (dissolved)	mg/l	0.0006	NONE	0.0087	< 0.0006	0.0012	0.0025
Zinc (dissolved)	mg/l	0.0005	NONE	0.0006	0.0031	0.0011	0.0015

Calcium (dissolved)	mg/l	0.012	NONE	150	130	150	130
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	2	0.032	0.047	1.3

Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number	487188	487189	487190	487191
Sample Reference	MW25-30B	MW25-31A	MW25-32	MW25-33
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken	0940	1556	1520	1645
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	0.061
TPH - Aliphatic >EC8 - EC10 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	0.03
TPH - Aliphatic >EC10 - EC12 _{EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	<0.10 [§]
TPH - Aliphatic >EC12 - EC16 _{EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	<0.10 [§]
TPH - Aliphatic >EC16 - EC21 _{EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	<0.10 [§]
TPH - Aliphatic >EC21 - EC35 _{EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01 [#]	< 0.01	< 0.01 [#]	<0.10 ^{# §}
TPH - Aliphatic >EC5 - EC35 _{HS+EH 2D AL #1 #2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	0.09

TPH - Aromatic >EC5 - EC7 _{HS 1D AR}	mg/l	0.001	NONE	0.44	< 0.0010	< 0.0010	0.14
TPH - Aromatic >EC7 - EC8 _{HS 1D AR}	mg/l	0.001	NONE	0.29	< 0.0010	< 0.0010	0.076
TPH - Aromatic >EC8 - EC10 _{HS 1D AR}	mg/l	0.001	NONE	0.38	< 0.0010	< 0.0010	0.22
TPH - Aromatic >EC10 - EC12 _{EH 2D AR #1 #2}	mg/l	0.01	NONE	2.02	< 0.01	< 0.01	1.65
TPH - Aromatic >EC12 - EC16 _{EH 2D AR #1 #2}	mg/l	0.01	NONE	0.93	< 0.01	< 0.01	2.31
TPH - Aromatic >EC16 - EC21 _{EH 2D AR #1 #2}	mg/l	0.01	NONE	0.18	< 0.01	< 0.01	0.45
TPH - Aromatic >EC21 - EC35 _{EH 2D AR #1 #2}	mg/l	0.01	NONE	0.22	< 0.01	< 0.01	0.66
TPH - Aromatic >EC5 - EC35 _{HS+EH 2D AR #1 #2}	mg/l	0.01	NONE	4.45	< 0.01	< 0.01	5.51

TPH (EC10 - EC40) _{EH 2D TOTAL #1 #2}	mg/l	0.01	NONE	3.34	< 0.01	< 0.01	5.07
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TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH 1D TOTAL MS}	mg/l	0.01	NONE	4.45	< 0.01	< 0.01	5.6
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VOCs

Chloromethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Chloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Bromomethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	< 0.0030
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	< 0.0030
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	< 0.0030
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	< 0.0030
Chloroform	mg/l	0.003	NONE	-	-	-	< 0.0030
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	< 0.0030
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	< 0.0030
Benzene	mg/l	0.001	NONE	0.43	< 0.001	< 0.001	0.13
Carbon tetrachloride	mg/l	0.003	NONE	-	-	-	< 0.0030
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	< 0.0030
Trichloroethene	mg/l	0.003	NONE	-	-	-	< 0.0030
Dibromomethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	< 0.0030
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	< 0.0030
Toluene	mg/l	0.001	NONE	0.29	< 0.001	< 0.001	0.056
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	< 0.0030

Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number				487188	487189	487190	487191
Sample Reference				MW25-30B	MW25-31A	MW25-32	MW25-33
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				19/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				0940	1556	1520	1645
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Chlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Ethylbenzene	mg/l	0.001	NONE	0.1	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	NONE	0.16	< 0.001	< 0.001	0.13
Styrene	mg/l	0.003	NONE	-	-	-	< 0.0030
Bromoform	mg/l	0.003	NONE	-	-	-	< 0.0030
o-xylene	mg/l	0.001	NONE	0.1	< 0.001	< 0.001	0.087
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	< 0.0030
Bromobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	< 0.0030
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	0.0601
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
Butylbenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	< 0.0030
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	< 0.0030
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	< 0.0030

SVOCs

3+4-Methylphenol	mg/l	0.0001	NONE	-	-	-	-
Aniline	mg/l	0.00005	NONE	-	-	-	-
Phenol	mg/l	0.00005	NONE	-	-	-	-
2-Chlorophenol	mg/l	0.00005	NONE	-	-	-	-
Bis(2-chloroethyl)ether	mg/l	0.00005	NONE	-	-	-	-
1,3-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/l	0.00005	NONE	-	-	-	-
2-Methylphenol	mg/l	0.00005	NONE	-	-	-	-
Hexachloroethane	mg/l	0.00005	NONE	-	-	-	-
Nitrobenzene	mg/l	0.00005	NONE	-	-	-	-
4-Methylphenol	mg/l	0.00005	NONE	-	-	-	-
Isophorone	mg/l	0.00005	NONE	-	-	-	-
2-Nitrophenol	mg/l	0.00005	NONE	-	-	-	-
2,4-Dimethylphenol	mg/l	0.00005	NONE	-	-	-	-
Bis(2-chloroethoxy)methane	mg/l	0.00005	NONE	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.00005	NONE	-	-	-	-
2,4-Dichlorophenol	mg/l	0.00005	NONE	-	-	-	-

Analytical Report Number: 25-013862
Project / Site name: Cadent Hinckley

Your Order No: 415001 00017 00401

Lab Sample Number				487188	487189	487190	487191
Sample Reference				MW25-30B	MW25-31A	MW25-32	MW25-33
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				19/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				0940	1556	1520	1645
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status				
4-Chloroaniline	mg/l	0.00005	NONE	-	-	-	-
Hexachlorobutadiene	mg/l	0.00005	NONE	-	-	-	-
4-Chloro-3-methylphenol	mg/l	0.00005	NONE	-	-	-	-
2,4,6-Trichlorophenol	mg/l	0.00005	NONE	-	-	-	-
2,4,5-Trichlorophenol	mg/l	0.00005	NONE	-	-	-	-
2-Methylnaphthalene	mg/l	0.00005	NONE	-	-	-	-
2-Chloronaphthalene	mg/l	0.00005	NONE	-	-	-	-
Dimethylphthalate	mg/l	0.00005	NONE	-	-	-	-
2,6-Dinitrotoluene	mg/l	0.00005	NONE	-	-	-	-
2,4-Dinitrotoluene	mg/l	0.00005	NONE	-	-	-	-
Dibenzofuran	mg/l	0.00005	NONE	-	-	-	-
4-Chlorophenyl phenyl ether	mg/l	0.00005	NONE	-	-	-	-
Diethyl phthalate	mg/l	0.00005	NONE	-	-	-	-
4-Nitroaniline	mg/l	0.00005	NONE	-	-	-	-
Azobenzene	mg/l	0.00005	NONE	-	-	-	-
Bromophenyl phenyl ether	mg/l	0.00005	NONE	-	-	-	-
Hexachlorobenzene	mg/l	0.00005	NONE	-	-	-	-
Carbazole	mg/l	0.00005	NONE	-	-	-	-
Dibutyl phthalate	mg/l	0.00005	NONE	-	-	-	-
Anthraquinone	mg/l	0.00005	NONE	-	-	-	-
Butyl benzyl phthalate	mg/l	0.00005	NONE	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-013862

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Suspended Solids in water	Determined gravimetrically with GFC filtration papers. Accredited matrices: SW, PW, GW, PrW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004B	W	NONE
Elemental Sulphur in water	Determination of elemental sulphur in waters by extraction in dichloromethane followed by GC-MS	In-house method: Sample is extracted in dichloromethane prior to analysis by GC-MS	L021B	W	NONE
Electrical Conductivity at 20°C in water	Determination of electrical conductivity in water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE	In-house method	L031B	W	NONE
Dissolved Organic Carbon in water	Determination of dissolved organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Total Organic Carbon in water	Determination of total organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Total Hardness of water	Determination of total hardness of water by calculation from calcium and magnesium. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045B	W	NONE
BTEX and/or 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 USEPA 8260	L073B	W	NONE
Alkalinity of water (discrete analyser)	Determination of alkalinity of water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on MEWAM & USEPA Method 310.2	L082B	W	NONE
Chloride in water	Determination of chloride in water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house based on MEWAM Method ISBN 0117516260	L082B	W	NONE
Thiocyanate in water	Determination of thiocyanate in water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW	In-house method based on SMWW 4500-CN-M	L082B	W	NONE
pH of water at 20°C (automated)	Determination of pH of water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE, LL	In-house method	L099-PL	W	NONE
Total Petroleum Hydrocarbons in water by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GCxGC-FID. Accredited matrices: SW, PW, GW	In-house method	L101B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds (including PAHs) in water by extraction in dichloromethane followed by GC-MS. Accredited matrices (PAHs): SW, PW, GW	In-house method based on USEPA 8270	L102B	W	NONE
Phenols in water by GC-MS	Determination of phenols in water by GC-MS	In-house method	L102B	W	NONE
Total Petroleum Hydrocarbons with carbon banding in water by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GCxGC FID with carbon banding aliphatic and aromatic C10-C35. Accredited matrices: SW, PW, GW	In-house method	L101B	W	NONE
Complex Cyanide in water	Determination of complex cyanide in water by calculation. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE

Analytical Report Number : 25-013862

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Free cyanide in water	Determination of free cyanide in water by distillation followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Total cyanide in water	Determination of total cyanide in water by distillation followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Ammonium as NH4 in water	Determination of ammonium/ammonia/ammoniacal nitrogen by the colorimetric salicylate/nitroprusside method using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5-diphenylcarbazide, followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method by continuous flow analyser	L080-PL	W	NONE
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited matrices: SW, PW, GW, PrW, DI PrW, FSE, LL	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	NONE
Sulphide in water	Determination of sulphide in water by ion selective electrode	In-house method	L029-PL	W	NONE
Phenols, speciated, in water by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	W	NONE
Total Petroleum Hydrocarbons in water by HS-GC-MS	Determination of total petroleum hydrocarbons in water by headspace GC-MS. Accredited matrices: SW, PW, GW	In-house method	L088-PL	W	NONE
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited matrices: SW, PW, GW, 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	L012B	W	NONE

Analytical Report Number : 25-013862

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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, PW, GW, FSE, LL; PrW, DI PrW (Al, Cu, Fe, Zn)	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\$\$ - Result was reported from high dilution. The result should be interpreted with caution.

\$% - Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.

& - Sample required dilution above the concentration range for the procedure due to matrix effect/ analyte concentration. The method limit of detection has been raised in line with the dilution. The result should be considered deviating and should be interpreted with caution. The result is not accredited.

*U/S j - Unsuitable for analysis due to high discrepancy between Hexavalent Chromium and dissolved Chromium results caused by methods difference.

- Quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.

Worley Consulting
5 Seaward Place
G41 1HH

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

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

e: leanne.carr@worley.com
brooke.davison@worley.com
inrid.laubscher@worlev.com

Analytical Report Number : 25-014175

Replaces Analytical Report Number: 25-014175, issue no. 1
Additional analysis undertaken.
VOCs added to samples 488450 & 488455 as per clients request

Project / Site name:	Cadent Hinckley	Samples received on:	20/03/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	20/03/2025
Your order number:	415001-00017 00401	Analysis completed by:	03/04/2025
Report Issue Number:	2	Report issued on:	03/04/2025
Samples Analysed:	9 water samples		

Signed:



Matthew O'Connell
Key Account 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
air - once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-014175
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	488449	488450	488451	488452	488455
Sample Reference	CBH124	CBH126	CBH129	CBH130	MW25-10
Sample Number	CBH124/19032025/1444	CBH126/19032025/1530	CBH129/19032025/1632	CBH130/19032025/1616	MW25-10/19032025/1018
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Time Taken	1444	1530	1632	1616	1018
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	NONE	7	7.1	7.1	7	9.9
Electrical Conductivity at 20°C	µS/cm	10	NONE	2400	1600	1400	1200	2000
Total Cyanide	mg/l	0.01	NONE	< 0.01	0.1	0.01	< 0.01	7.9
Complex Cyanide	mg/l	0.01	NONE	< 0.01	0.1	0.01	< 0.01	7.9
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	0.03
Thiocyanate as SCN	mg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	6.2
Sulphate as SO ₄	mg/l	0.045	NONE	699	29.9	448	199	568
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	0.006
Chloride	mg/l	0.15	NONE	330	180	52	73	350
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	42	30	0.015	0.057	26
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	4.95	22.2	3.55	4.76	98.6
Total Organic Carbon (TOC)	mg/l	0.1	NONE	5.09	24.2	3.78	4.86	100
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	340	650	380	400	120
Total Suspended Solids (L004B)	mg/l	2	NONE	12	34	160	26	250
Hardness - Total	mgCaCO ₃ /l	1	NONE	1190	673	674	601	615

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	0.29	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	0.11	0.21	< 0.0005	< 0.0005	0.49
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	0.11	0.49	< 0.0035	< 0.0035	0.49
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Analytical Report Number: 25-014175
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	488449	488450	488451	488452	488455
Sample Reference	CBH124	CBH126	CBH129	CBH130	MW25-10
Sample Number	CBH124/19032025/1444	CBH126/19032025/1530	CBH129/19032025/1632	CBH130/19032025/1616	MW25-10/19032025/1018
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Time Taken	1444	1530	1632	1616	1018
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	1.7 % ⁹⁶
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	0.025	< 0.00001	< 0.00001	0.11
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	0.013	0.00012	< 0.00001	0.013
Fluorene	mg/l	0.00001	NONE	< 0.00001	0.0027	< 0.00001	< 0.00001	0.025
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	0.00071	< 0.00001	< 0.00001	0.022
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.0063
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.0033
Pyrene	mg/l	0.00001	NONE	< 0.00001	0.00019	< 0.00001	< 0.00001	0.0036
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00081
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00064
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00043
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00012 ⁸
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00010 ⁸
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00018

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	0.042	< 0.00016	< 0.00016	1.9
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.0011	0.014	0.00079	0.00078	0.07
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00073	< 0.00002	0.00006	0.00004	0.0001
Chromium (dissolved)	mg/l	0.0002	NONE	< 0.00020	0.00026	0.00024	< 0.00020	0.0011
Copper (dissolved)	mg/l	0.0005	NONE	0.0029	0.0005	0.0027	0.0021	0.0061
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0012
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00024
Nickel (dissolved)	mg/l	0.0005	NONE	0.0057	0.0027	0.0056	0.0023	0.015
Selenium (dissolved)	mg/l	0.0006	NONE	0.0063	0.0023	< 0.0006	< 0.0006	0.0063
Zinc (dissolved)	mg/l	0.0005	NONE	0.0239	0.0012	0.0028	0.002	0.0019

Calcium (dissolved)	mg/l	0.012	NONE	320	220	180	190	250
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.005	2.9	0.014	0.11	4.4

Analytical Report Number: 25-014175
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	488449	488450	488451	488452	488455
Sample Reference	CBH124	CBH126	CBH129	CBH130	MW25-10
Sample Number	CBH124/19032025/1444	CBH126/19032025/1530	CBH129/19032025/1632	CBH130/19032025/1616	MW25-10/19032025/1018
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Time Taken	1444	1530	1632	1616	1018
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS 1D AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	0.07	< 0.01	< 0.01	<0.10 ^a
TPH - Aliphatic >EC12 - EC16 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	0.05	< 0.01	< 0.01	<0.10 ^a
TPH - Aliphatic >EC16 - EC21 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	0.02	< 0.01	< 0.01	<0.10 ^a
TPH - Aliphatic >EC21 - EC35 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	0.02	< 0.01	< 0.01	<0.10 ^a
Total TPH Aliphatic >EC10 - EC35 _{EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	0.16	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 _{HS+EH 2D AL #1, #2}	mg/l	0.01	NONE	< 0.01	0.16	< 0.01	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	1.9	< 0.0010	< 0.0010	0.44
TPH - Aromatic >EC7 - EC8 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	0.025	< 0.0010	< 0.0010	0.26
TPH - Aromatic >EC8 - EC10 _{HS 1D AR}	mg/l	0.001	NONE	< 0.0010	0.16	< 0.0010	< 0.0010	0.18
TPH - Aromatic >EC10 - EC12 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	0.05	9.63	< 0.01	< 0.01	3.1
TPH - Aromatic >EC12 - EC16 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	0.04	3.59	< 0.01	< 0.01	1.16
TPH - Aromatic >EC16 - EC21 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	< 0.01	0.61	< 0.01	< 0.01	0.3
TPH - Aromatic >EC21 - EC35 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	< 0.01	0.37	< 0.01	< 0.01	0.6
Total TPH Aromatic >EC10 - EC35 _{EH 2D AR #1, #2}	mg/l	0.01	NONE	0.1	14.2	< 0.01	< 0.01	5.17
TPH - Aromatic >EC5 - EC35 _{HS+EH 2D AR #1, #2}	mg/l	0.01	NONE	0.1	16.3	< 0.01	< 0.01	6.05

TPH (EC10 - EC40) _{EH 2D TOTAL #1, #2}	mg/l	0.01	NONE	0.1	14.4	< 0.01	< 0.01	5.23
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TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH 1D TOTAL MS}	mg/l	0.01	NONE	0.1	16.4	< 0.01	< 0.01	6.05
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VOCs

Chloromethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Chloroethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Bromomethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Vinyl Chloride	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Trichlorofluoromethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,1-Dichloroethene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
2,2-Dichloropropane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Chloroform	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,2-Dichloroethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,1-Dichloropropene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Benzene	mg/l	0.001	NONE	< 0.001	1.9	< 0.001	< 0.001	0.43
Carbontetrachloride	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,2-Dichloropropane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Trichloroethene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Dibromomethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Bromodichloromethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030

Analytical Report Number: 25-014175
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				488449	488450	488451	488452	488455
Sample Reference				CBH124	CBH126	CBH129	CBH130	MW25-10
Sample Number				CBH124/19032025/ 1444	CBH126/19032025/ 1530	CBH129/19032025/ 1632	CBH130/19032025/ 1616	MW25- 10/19032025/1018
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Time Taken				1444	1530	1632	1616	1018
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Toluene	mg/l	0.001	NONE	< 0.001	0.024	< 0.001	< 0.001	0.26
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,3-Dichloropropane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Dibromochloromethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Tetrachloroethene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,2-Dibromoethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Chlorobenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	0.037
p & m-xylene	mg/l	0.001	NONE	< 0.001	0.077	< 0.001	< 0.001	0.063
Styrene	mg/l	0.003	NONE	-	< 0.0030	-	-	0.052
Bromoform	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
o-xylene	mg/l	0.001	NONE	< 0.001	0.08	< 0.001	< 0.001	0.057
Isopropylbenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Bromobenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
n-Propylbenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
2-Chlorotoluene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
4-Chlorotoluene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
tert-Butylbenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	0.137	-	-	< 0.0030
sec-Butylbenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
p-Isopropyltoluene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Butylbenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
Hexachlorobutadiene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	< 0.0030	-	-	< 0.0030

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-014175
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	488456	488460	488464	488471
Sample Reference	MW25-13A	MW25-20	MW25-25	MW25-34
Sample Number	MW25-13A/19032025/1135	MW25-20/19032025/1205	MW25-25/19032025/1255	MW25-34/19032025/1058
Water Matrix	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Time Taken	1135	1205	1255	1058
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status	

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.9	7.3	7.4	7.4
Electrical Conductivity at 20°C	µS/cm	10	NONE	1400	1500	2100	1200
Total Cyanide	mg/l	0.01	NONE	0.36	0.07	0.19	0.06
Complex Cyanide	mg/l	0.01	NONE	0.36	0.07	0.19	0.06
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	0.2	0.5	0.3	< 0.2
Sulphate as SO ₄	mg/l	0.045	NONE	446	322	193	147
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	NONE	82	81	190	140
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	4.7	44	77	3.6
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	11.5	21.7	24.6	7.06
Total Organic Carbon (TOC)	mg/l	0.1	NONE	12.1	23.3	25.2	7.12
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	280	440	650	350
Total Suspended Solids (L004B)	mg/l	2	NONE	250	390	250	46
Hardness - Total	mgCaCO ₃ /l	1	NONE	573	304	431	347

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	0.27	0.56	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	0.27	0.56	< 0.0035	< 0.0035
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Analytical Report Number: 25-014175
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	488456	488460	488464	488471
Sample Reference	MW25-13A	MW25-20	MW25-25	MW25-34
Sample Number	MW25-13A/19032025/1135	MW25-20/19032025/1205	MW25-25/19032025/1255	MW25-34/19032025/1058
Water Matrix	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Time Taken	1135	1205	1255	1058
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	0.57	0.005	0.14 ^{§%}
Acenaphthylene	mg/l	0.00001	NONE	0.0011	0.029	0.051	0.02
Acenaphthene	mg/l	0.00001	NONE	0.0048	0.0054	0.011	0.0068
Fluorene	mg/l	0.00001	NONE	0.00073	0.0054	0.018	0.0048
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	0.004	0.028	0.0033
Anthracene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.006	0.00084
Fluoranthene	mg/l	0.00001	NONE	0.00072	0.0013	0.0071	0.00041
Pyrene	mg/l	0.00001	NONE	0.00093	0.00096	0.005	0.00045
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	0.00037	0.0013	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	0.00022	0.0012	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	<0.00010 [§]	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	<0.00010 [§]	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.00036 [§]	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	<0.00010 [§]	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	<0.00010 [§]	0.00039	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	0.0082	0.62	0.14	0.17
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.011	0.0047	0.014	0.013
Cadmium (dissolved)	mg/l	0.00002	NONE	< 0.00002	0.00003	0.00002	< 0.00002
Chromium (dissolved)	mg/l	0.0002	NONE	0.00025	0.0011	0.00056	< 0.00020
Copper (dissolved)	mg/l	0.0005	NONE	0.0016	0.0016	0.004	< 0.0005
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	0.0008	< 0.0002	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	0.00006	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0017	0.0064	0.003	0.0027
Selenium (dissolved)	mg/l	0.0006	NONE	0.0014	0.0065	0.0049	0.0012
Zinc (dissolved)	mg/l	0.0005	NONE	0.0024	0.0031	0.003	0.003

Calcium (dissolved)	mg/l	0.012	NONE	140	92	130	110
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.25	1.2	0.73	0.11

Analytical Report Number: 25-014175
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number	488456	488460	488464	488471
Sample Reference	MW25-13A	MW25-20	MW25-25	MW25-34
Sample Number	MW25-13A/19032025/1135	MW25-20/19032025/1205	MW25-25/19032025/1255	MW25-34/19032025/1058
Water Matrix	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Time Taken	1135	1205	1255	1058
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 HS_1D_AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 HS_1D_AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 HS_1D_AL	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 EH_2D_AL_#1_#2	mg/l	0.01	NONE	< 0.01	<0.10 ^h	<0.10 ^h	< 0.01
TPH - Aliphatic >EC12 - EC16 EH_2D_AL_#1_#2	mg/l	0.01	NONE	< 0.01	<0.10 ^h	<0.10 ^h	< 0.01
TPH - Aliphatic >EC16 - EC21 EH_2D_AL_#1_#2	mg/l	0.01	NONE	< 0.01	<0.10 ^h	<0.10 ^h	< 0.01
TPH - Aliphatic >EC21 - EC35 EH_2D_AL_#1_#2	mg/l	0.01	NONE	< 0.01	<0.10 ^h	<0.10 ^h	< 0.01
Total TPH Aliphatic >EC10 - EC35 EH_2D_AL_#1_#2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 HS+EH_2D_AL_#1_#2	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 HS_1D_AR	mg/l	0.001	NONE	0.0026	0.73	0.13	0.11
TPH - Aromatic >EC7 - EC8 HS_1D_AR	mg/l	0.001	NONE	< 0.0010	0.23	0.027	0.097
TPH - Aromatic >EC8 - EC10 HS_1D_AR	mg/l	0.001	NONE	0.0068	0.29	0.014	0.034
TPH - Aromatic >EC10 - EC12 EH_2D_AR_#1_#2	mg/l	0.01	NONE	0.26	8.12	1.88	1.41
TPH - Aromatic >EC12 - EC16 EH_2D_AR_#1_#2	mg/l	0.01	NONE	0.46	3.89	1.63	0.38
TPH - Aromatic >EC16 - EC21 EH_2D_AR_#1_#2	mg/l	0.01	NONE	0.21	0.47	0.74	0.01
TPH - Aromatic >EC21 - EC35 EH_2D_AR_#1_#2	mg/l	0.01	NONE	0.36	0.61	0.83	< 0.01
Total TPH Aromatic >EC10 - EC35 EH_2D_AR_#1_#2	mg/l	0.01	NONE	1.29	13.1	5.08	1.81
TPH - Aromatic >EC5 - EC35 HS+EH_2D_AR_#1_#2	mg/l	0.01	NONE	1.3	14.3	5.25	2.05

TPH (EC10 - EC40) EH_2D_TOTAL_#1_#2	mg/l	0.01	NONE	1.32	13.2	5.14	1.81
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TPH Total >C5 - C35 Aliphatic & Aromatic HS+EH_1D_TOTAL_MS	mg/l	0.01	NONE	1.3	14.3	5.25	2.05
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VOCs

Chloromethane	mg/l	0.003	NONE	-	-	-	-
Chloroethane	mg/l	0.003	NONE	-	-	-	-
Bromomethane	mg/l	0.003	NONE	-	-	-	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	< 0.003	< 0.003	< 0.003	< 0.003
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-
Chloroform	mg/l	0.003	NONE	-	-	-	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	-
Benzene	mg/l	0.001	NONE	0.001	0.74	0.12	0.1
Carbontetrachloride	mg/l	0.003	NONE	-	-	-	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-
Trichloroethene	mg/l	0.003	NONE	-	-	-	-
Dibromomethane	mg/l	0.003	NONE	-	-	-	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-

Analytical Report Number: 25-014175
Project / Site name: Cadent Hinckley

Your Order No: 415001-00017 00401

Lab Sample Number				488456	488460	488464	488471
Sample Reference				MW25-13A	MW25-20	MW25-25	MW25-34
Sample Number				MW25-13A/19032025/1135	MW25-20/19032025/1205	MW25-25/19032025/1255	MW25-34/19032025/1058
Water Matrix				Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				19/03/2025	19/03/2025	19/03/2025	19/03/2025
Time Taken				1135	1205	1255	1058
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-
Toluene	mg/l	0.001	NONE	< 0.001	0.23	0.027	0.098
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	-
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	-
Chlorobenzene	mg/l	0.003	NONE	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	0.027	< 0.001	0.014
p & m-xylene	mg/l	0.001	NONE	< 0.001	0.15	< 0.001	0.015
Styrene	mg/l	0.003	NONE	-	-	-	-
Bromoform	mg/l	0.003	NONE	-	-	-	-
o-xylene	mg/l	0.001	NONE	0.005	0.1	< 0.001	0.016
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-
Bromobenzene	mg/l	0.003	NONE	-	-	-	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	-
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-
Butylbenzene	mg/l	0.003	NONE	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-014175

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Suspended Solids in water	Determined gravimetrically with GFC filtration papers. Accredited matrices: SW, PW, GW, PrW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004B	W	NONE
Elemental Sulphur in water	Determination of elemental sulphur in waters by extraction in dichloromethane followed by GC-MS	In-house method: Sample is extracted in dichloromethane prior to analysis by GC-MS	L021B	W	NONE
Electrical Conductivity at 20°C in water	Determination of electrical conductivity in water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE	In-house method	L031B	W	NONE
Dissolved Organic Carbon in water	Determination of dissolved organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Total Organic Carbon in water	Determination of total organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Total Hardness of water	Determination of total hardness of water by calculation from calcium and magnesium. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045B	W	NONE
Alkalinity of water (discrete analyser)	Determination of alkalinity of water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on MEWAM & USEPA Method 310.2	L082B	W	NONE
Chloride in water	Determination of chloride in water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house based on MEWAM Method ISBN 0117516260	L082B	W	NONE
Thiocyanate in water	Determination of thiocyanate in water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW	In-house method based on SMWW 4500-CN-M	L082B	W	NONE
pH of water at 20°C (automated)	Determination of pH of water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE, LL	In-house method	L099-PL	W	NONE
Total Petroleum Hydrocarbons in water by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GCxGC-FID. Accredited matrices: SW, PW, GW	In-house method	L101B	W	NONE
Total Petroleum Hydrocarbons with carbon banding in water by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GCxGC FID with carbon banding aliphatic and aromatic C10-C35. Accredited matrices: SW, PW, GW	In-house method	L101B	W	NONE
BTEX and/or 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 USEPA 8260	L073B	W	NONE

Analytical Report Number : 25-014175

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated PAHs and/or Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds (including PAHs) in water by extraction in dichloromethane followed by GC-MS. Accredited matrices (PAHs): SW, PW, GW	In-house method based on USEPA 8270	L102B	W	NONE
Complex Cyanide in water	Determination of complex cyanide in water by calculation. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Free cyanide in water	Determination of free cyanide in water by distillation followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Total cyanide in water	Determination of total cyanide in water by distillation followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Ammonium as NH4 in water	Determination of ammonium/ammonia/ammoniacal nitrogen by the colorimetric salicylate/nitroprusside method using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	NONE
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5-diphenylcarbazide, followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method by continuous flow analyser	L080-PL	W	NONE
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited matrices: SW, PW, GW, PrW, DI PrW, FSE, LL	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	NONE
Sulphide in water	Determination of sulphide in water by ion selective electrode	In-house method	L029-PL	W	NONE
Phenols, speciated, in water by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	W	NONE
Total Petroleum Hydrocarbons in water by HS-GC-MS	Determination of total petroleum hydrocarbons in water by headspace GC-MS. Accredited matrices: SW, PW, GW	In-house method	L088-PL	W	NONE
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited matrices: SW, PW, GW, 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	L012B	W	NONE

Analytical Report Number : 25-014175

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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, PW, GW, FSE, LL; PrW, DI PrW (Al, Cu, Fe, Zn)	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\$% - Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.

& - Sample required dilution above the concentration range for the procedure due to matrix effect/ analyte concentration. The method limit of detection has been raised in line with the dilution. The result should be considered deviating and should be interpreted with caution. The result is not accredited.



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Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
brooke.davison@worley.com
inrid.laubscher@worlev.com

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 : 25-014236

Project / Site name:	Cadent Hinckley	Samples received on:	20/03/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	20/03/2025
Your order number:	415001-00017_00401	Analysis completed by:	26/03/2025
Report Issue Number:	1	Report issued on:	27/03/2025
Samples Analysed:	2 water samples		

Signed:

Trevor Hill
Customer Service Advisor
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
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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.



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Environmental Science

Analytical Report Number: 25-014236

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017_00401

Lab Sample Number				488733	488734
Sample Reference				SW25-01	SW25-02
Sample Number				SW25-01/200325/0850	SW25-01/200325/0930
Water Matrix				Surface water	Surface water
Depth (m)				None Supplied	None Supplied
Date Sampled				20/03/2025	20/03/2025
Time Taken				0850	0930
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	ISO 17025	7.3	7.9
Electrical Conductivity at 20°C	µS/cm	10	ISO 17025	950	850
Total Cyanide	mg/l	0.01	ISO 17025	< 0.01	< 0.01
Complex Cyanide	mg/l	0.01	ISO 17025	< 0.01	< 0.01
Free Cyanide	mg/l	0.01	ISO 17025	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	ISO 17025	< 0.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	ISO 17025	157	140
Elemental Sulphur	mg/l	0.02	NONE	< 0.02	< 0.02
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005
Chloride	mg/l	0.15	ISO 17025	47	43
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	ISO 17025	0.8	1.1
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	3.5	3.48
Total Organic Carbon (TOC)	mg/l	0.1	ISO 17025	5.91	4.6
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	ISO 17025	320	300
Total Suspended Solids (L004B)	mg/l	2	ISO 17025	3300	1500
Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	522	462

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035
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Speciated PAHs

Naphthalene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Acenaphthylene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Acenaphthene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Fluorene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Phenanthrene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Anthracene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Pyrene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001



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Environmental Science

Analytical Report Number: 25-014236

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017_00401

Lab Sample Number				488733	488734
Sample Reference				SW25-01	SW25-02
Sample Number				SW25-01/200325/0850	SW25-01/200325/0930
Water Matrix				Surface water	Surface water
Depth (m)				None Supplied	None Supplied
Date Sampled				20/03/2025	20/03/2025
Time Taken				0850	0930
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	ISO 17025	< 0.00016	< 0.00016
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	ISO 17025	0.0012	0.00075
Cadmium (dissolved)	mg/l	0.00002	ISO 17025	< 0.00002	< 0.00002
Chromium (dissolved)	mg/l	0.0002	ISO 17025	< 0.00020	< 0.00020
Copper (dissolved)	mg/l	0.0005	ISO 17025	< 0.0005	0.0014
Lead (dissolved)	mg/l	0.0002	ISO 17025	< 0.0002	< 0.0002
Mercury (dissolved)	mg/l	0.00005	ISO 17025	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	ISO 17025	0.0017	0.0014
Selenium (dissolved)	mg/l	0.0006	ISO 17025	< 0.0006	< 0.0006
Zinc (dissolved)	mg/l	0.0005	ISO 17025	0.0012	0.0019

Calcium (dissolved)	mg/l	0.012	ISO 17025	170	150
Chromium (hexavalent)	mg/l	0.005	ISO 17025	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	ISO 17025	1.7	0.013

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 _{EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 _{EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 _{EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 _{HS+EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01

TPH - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 _{EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01
TPH - Aromatic >EC12 - EC16 _{EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01
TPH - Aromatic >EC16 - EC21 _{EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01
TPH - Aromatic >EC21 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01
TPH - Aromatic >EC5 - EC35 _{HS+EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01

TPH (EC10 - EC40) _{EH_2D_TOTAL_#1_#2}	µg/l	10	ISO 17025	< 10	< 10
TPH (EC10 - EC40) _{EH_2D_TOTAL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01

TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH_1D_TOTAL_MS}	mg/l	0.01	NONE	< 0.01	< 0.01
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Analytical Report Number: 25-014236

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017_00401

Lab Sample Number				488733	488734
Sample Reference				SW25-01	SW25-02
Sample Number				SW25-01/200325/0850	SW25-01/200325/0930
Water Matrix				Surface water	Surface water
Depth (m)				None Supplied	None Supplied
Date Sampled				20/03/2025	20/03/2025
Time Taken				0850	0930
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

VOCs

MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	ISO 17025	< 0.003	< 0.003
Benzene	mg/l	0.001	ISO 17025	< 0.001	< 0.001
Toluene	mg/l	0.001	ISO 17025	< 0.001	< 0.001
Ethylbenzene	mg/l	0.001	ISO 17025	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	ISO 17025	< 0.001	< 0.001
o-xylene	mg/l	0.001	ISO 17025	< 0.001	< 0.001

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



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Environmental Science

Analytical Report Number : 25-014236

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Suspended Solids in water	Determined gravimetrically with GFC filtration papers. Accredited matrices: SW, PW, GW, PrW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004B	W	ISO 17025
Elemental Sulphur in water	Determination of elemental sulphur in waters by extraction in dichloromethane followed by GC-MS	In-house method: Sample is extracted in dichloromethane prior to analysis by GC-MS	L021B	W	NONE
Electrical Conductivity at 20°C in water	Determination of electrical conductivity in water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE	In-house method	L031B	W	ISO 17025
Dissolved Organic Carbon in water	Determination of dissolved organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	ISO 17025
Total Organic Carbon in water	Determination of total organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	ISO 17025
Total Hardness of water	Determination of total hardness of water by calculation from calcium and magnesium. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045B	W	ISO 17025
Alkalinity of water (discrete analyser)	Determination of alkalinity of water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on MEWAM & USEPA Method 310.2	L082B	W	ISO 17025
Chloride in water	Determination of chloride in water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Thiocyanate in water	Determination of thiocyanate in water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW	In-house method based on SMWW 4500-CN-M	L082B	W	ISO 17025
pH of water at 20°C (automated)	Determination of pH of water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE, LL	In-house method	L099-PL	W	ISO 17025
Total Petroleum Hydrocarbons in water by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GCxGC-FID. Accredited matrices: SW, PW, GW	In-house method	L101B	W	ISO 17025
Total Petroleum Hydrocarbons with carbon banding in water by GCxGC-FID	Determination of total petroleum hydrocarbons in water by GCxGC FID with carbon banding aliphatic and aromatic C10-C35. Accredited matrices: SW, PW, GW	In-house method	L101B	W	ISO 17025
BTEX and/or 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 USEPA 8260	L073B	W	ISO 17025
Speciated PAHs and/or Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds (including PAHs) in water by extraction in dichloromethane followed by GC-MS. Accredited matrices (PAHs): SW, PW, GW	In-house method based on USEPA 8270	L102B	W	ISO 17025
Complex Cyanide in water	Determination of complex cyanide in water by calculation. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Free cyanide in water	Determination of free cyanide in water by distillation followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025



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**Analytical Report Number : 25-014236****Project / Site name: Cadent Hinckley****Water matrix abbreviations:****Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)****Final Sewage Effluent (FSE) Landfill Leachate (LL)**

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total cyanide in water	Determination of total cyanide in water by distillation followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Ammonium as NH ₄ in water	Determination of ammonium/ammonia/ammoniacal nitrogen by the colorimetric salicylate/nitroprusside method using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5-diphenylcarbazide, followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method by continuous flow analyser	L080-PL	W	ISO 17025
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited matrices: SW, PW, GW, PrW, DI PrW, FSE, LL	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode	In-house method	L029-PL	W	NONE
Phenols, speciated, in water by HPLC	Determination of speciated phenols by HPLC	In-house method based on Blue Book Method	L030-PL	W	NONE
Total Petroleum Hydrocarbons in water by HS-GC-MS	Determination of total petroleum hydrocarbons in water by headspace GC-MS. Accredited matrices: SW, PW, GW	In-house method	L088-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, PW, GW, 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	L012B	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited matrices: SW, PW, GW, FSE, LL; PrW, DI PrW (Al, Cu, Fe, Zn)	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).****For method numbers ending in 'PL' or 'B' 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 30°C.****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.**

Analytical Report Number : 25-014236

Project / Site name: Cadent Hinckley

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



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Environmental Science

Worley Consulting
Studio 1NW
The Quorum
Bond Street
Bristol
BS1 3AE

t: 01179105123

e: leanne.carr@worley.com
brooke.davison@worley.com
inard.laubscher@worlev.com

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 : 25-017701

Replaces Analytical Report Number: 25-017701, issue no. 1
Result Correction

Accreditation for Total TPH Aliphatic >EC10 - EC35 in mg/l corrected by laboratory.

Project / Site name:	Cadent Hinckley	Samples received on:	08/04/2025
Your job number:	00401	Samples instructed on/ Analysis started on:	08/04/2025
Your order number:	415001-00017-00401	Analysis completed by:	18/04/2025
Report Issue Number:	2	Report issued on:	08/05/2025
Samples Analysed:	26 water samples		

Signed:

Joanna Wawrzeczko
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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.



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Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506865	506866	506867	506868
Sample Reference				CBH102	CBH104	CBH108	CBH112
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Ground water	Ground water	Ground water	Ground water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/04/2025	08/04/2025	08/04/2025	08/04/2025
Time Taken				0835	0908	0935	1010
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status				

General Inorganics

pH (L099)	pH Units	N/A	ISO 17025	7	7.1	7	6.9
Electrical Conductivity at 20°C	µS/cm	10	ISO 17025	1600	3600	5300	3000
Total Cyanide	mg/l	0.01	ISO 17025	0.27	0.21	1.1	0.44
Complex Cyanide	mg/l	0.01	ISO 17025	0.27	0.21	1.1	0.44
Free Cyanide	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	ISO 17025	0.3	0.3	0.4	< 0.2
Sulphate as SO ₄	mg/l	0.045	ISO 17025	237	594	1070	424
Sulphide	mg/l	0.005	NONE	0.057	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	ISO 17025	250	900	1500	730 ^{§§}
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	ISO 17025	3.9	0.19	23	18
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	40	6.35	9.82	6.58
Total Organic Carbon (TOC)	mg/l	0.1	ISO 17025	44.2	7.15	9.87	6.84
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	ISO 17025	370	480	540	440
Total Suspended Solids (L004B)	mg/l	2	ISO 17025	150	360	40	16
Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	432	1300	1810	1000

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035	< 0.0035
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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506865	506866	506867	506868
Sample Reference				CBH102	CBH104	CBH108	CBH112
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Ground water	Ground water	Ground water	Ground water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/04/2025	08/04/2025	08/04/2025	08/04/2025
Time Taken				0835	0908	0935	1010
Analytical Parameter (Water Analysis)				Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	ISO 17025	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	ISO 17025	< 0.00016	< 0.00016	< 0.00016	< 0.00016
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	ISO 17025	0.006	0.00079	0.00071	0.00036
Cadmium (dissolved)	mg/l	0.00002	ISO 17025	0.00003	0.0005	0.00026	0.00008
Chromium (dissolved)	mg/l	0.0002	ISO 17025	0.0018	< 0.00020	0.00063	0.00052
Copper (dissolved)	mg/l	0.0005	ISO 17025	0.0046	0.006	0.0064	0.01
Lead (dissolved)	mg/l	0.0002	ISO 17025	0.0007	< 0.0002	< 0.0002	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	ISO 17025	0.0047	0.0082	0.0048	0.0039
Selenium (dissolved)	mg/l	0.0006	ISO 17025	0.0008	0.001	0.001	0.0033
Zinc (dissolved)	mg/l	0.0005	ISO 17025	0.0166	0.0447	0.0104	0.0025

Calcium (dissolved)	mg/l	0.012	ISO 17025	150	420	590	310
Chromium (hexavalent)	mg/l	0.005	ISO 17025	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	ISO 17025	0.99	0.32	0.45	0.17



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506865	506866	506867	506868
Sample Reference				CBH102	CBH104	CBH108	CBH112
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Ground water	Ground water	Ground water	Ground water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/04/2025	08/04/2025	08/04/2025	08/04/2025
Time Taken				0835	0908	0935	1010
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status				

Petroleum Hydrocarbons

Total TPH Aliphatic >EC10 - EC35 _{EH_2D_AL_#1_#2}	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 _{EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 _{EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 _{EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aliphatic >EC10 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 _{HS+EH_2D_AL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01

Total TPH Aromatic >EC10 - EC35 _{EH_2D_AR_#1_#2}	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 _{EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC12 - EC16 _{EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC16 - EC21 _{EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC21 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aromatic >EC10 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC5 - EC35 _{HS+EH_2D_AR_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01

TPH (EC10 - EC40) _{EH_2D_TOTAL_#1_#2}	mg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
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TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH_1D_TOTAL_MS}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
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VOCs

Benzene	mg/l	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/l	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/l	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
o-xylene	mg/l	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506869	506870	506871	506872	506873
Sample Reference				DUP-1	DUP-2	DUP-3	DUP-4	MW25-01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	08/04/2025	07/04/2025
Time Taken				1117	1318	1411	0935	1410
Analytical Parameter (Water Analysis)				Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.2	7.4	7.5	7.1	7.5
Electrical Conductivity at 20°C	µS/cm	10	NONE	1100	810	1500	5400	1600
Total Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	0.02	1.2	0.02
Complex Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	0.02	1.2	0.02
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	0.5	0.3
Sulphate as SO ₄	mg/l	0.045	NONE	220	69	246	1140	252
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	NONE	65	89	210	1500 ^{SS}	210
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	0.073	0.21	3.8	23	4
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	2.03	2.36	9.29	9.56	8.31
Total Organic Carbon (TOC)	mg/l	0.1	NONE	2.06	2.67	9.4	9.64	9.19
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	410	250	330	510	370
Total Suspended Solids (L004B)	mg/l	2	NONE	49	470	91	26	110
Hardness - Total	mgCaCO ₃ /l	1	NONE	498	304	397	1320	444

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506869	506870	506871	506872	506873
Sample Reference				DUP-1	DUP-2	DUP-3	DUP-4	MW25-01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	08/04/2025	07/04/2025
Time Taken				1117	1318	1411	0935	1410
Analytical Parameter (Water Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.0023	0.0017	0.0028	0.00068	0.0031
Cadmium (dissolved)	mg/l	0.00002	NONE	< 0.00002	< 0.00002	< 0.00002	0.00025	< 0.00002
Chromium (dissolved)	mg/l	0.0002	NONE	< 0.00020	< 0.00020	< 0.00020	0.001	0.0002
Copper (dissolved)	mg/l	0.0005	NONE	0.0012	0.0012	0.0023	0.006	0.002
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0029	0.0013	0.0049	0.0046	0.005
Selenium (dissolved)	mg/l	0.0006	NONE	< 0.0006	< 0.0006	0.0008	0.0013	0.0008
Zinc (dissolved)	mg/l	0.0005	NONE	0.0015	0.0014	0.001	0.0083	0.0009

Calcium (dissolved)	mg/l	0.012	NONE	150	91	120	410	130
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.019	0.008	0.021	0.45	0.017



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506869	506870	506871	506872	506873
Sample Reference				DUP-1	DUP-2	DUP-3	DUP-4	MW25-01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	08/04/2025	07/04/2025
Time Taken				1117	1318	1411	0935	1410
Analytical Parameter (Water Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

Total TPH Aliphatic >EC10 - EC35 _{EH_2D_AL_#1_#2}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aliphatic >EC10 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 _{HS+EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total TPH Aromatic >EC10 - EC35 _{EH_2D_AR_#1_#2}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC12 - EC16 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC16 - EC21 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC21 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aromatic >EC10 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aromatic >EC5 - EC35 _{HS+EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TPH (EC10 - EC40) _{EH_2D_TOTAL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH_1D_TOTAL_MS}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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VOCs

Chloromethane	mg/l	0.003	NONE	-	-	-	-	-
Chloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromomethane	mg/l	0.003	NONE	-	-	-	-	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Chloroform	mg/l	0.003	NONE	-	-	-	-	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbontetrachloride	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Trichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Dibromomethane	mg/l	0.003	NONE	-	-	-	-	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506869	506870	506871	506872	506873
Sample Reference				DUP-1	DUP-2	DUP-3	DUP-4	MW25-01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	08/04/2025	07/04/2025
Time Taken				1117	1318	1411	0935	1410
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	-	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	-	-
Chlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	mg/l	0.003	NONE	-	-	-	-	-
Bromoform	mg/l	0.003	NONE	-	-	-	-	-
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromobenzene	mg/l	0.003	NONE	-	-	-	-	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	-	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
3+4-Methylphenol	mg/l	0.0001	NONE	-	-	-	-	-
Aniline	mg/l	0.00005	NONE	-	-	-	-	-
Phenol	mg/l	0.00005	NONE	-	-	-	-	-
2-Chlorophenol	mg/l	0.00005	NONE	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/l	0.00005	NONE	-	-	-	-	-
1,3-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/l	0.00005	NONE	-	-	-	-	-
2-Methylphenol	mg/l	0.00005	NONE	-	-	-	-	-
Hexachloroethane	mg/l	0.00005	NONE	-	-	-	-	-
Nitrobenzene	mg/l	0.00005	NONE	-	-	-	-	-
4-Methylphenol	mg/l	0.00005	NONE	-	-	-	-	-
Isophorone	mg/l	0.00005	NONE	-	-	-	-	-
2-Nitrophenol	mg/l	0.00005	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/l	0.00005	NONE	-	-	-	-	-



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506869	506870	506871	506872	506873
Sample Reference				DUP-1	DUP-2	DUP-3	DUP-4	MW25-01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	08/04/2025	07/04/2025
Time Taken				1117	1318	1411	0935	1410
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Bis(2-chloroethoxy)methane	mg/l	0.00005	NONE	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
2,4-Dichlorophenol	mg/l	0.00005	NONE	-	-	-	-	-
4-Chloroaniline	mg/l	0.00005	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/l	0.00005	NONE	-	-	-	-	-
4-Chloro-3-methylphenol	mg/l	0.00005	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/l	0.00005	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/l	0.00005	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/l	0.00005	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/l	0.00005	NONE	-	-	-	-	-
Dimethylphthalate	mg/l	0.00005	NONE	-	-	-	-	-
2,6-Dinitrotoluene	mg/l	0.00005	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/l	0.00005	NONE	-	-	-	-	-
Dibenzofuran	mg/l	0.00005	NONE	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/l	0.00005	NONE	-	-	-	-	-
Diethyl phthalate	mg/l	0.00005	NONE	-	-	-	-	-
4-Nitroaniline	mg/l	0.00005	NONE	-	-	-	-	-
Azobenzene	mg/l	0.00005	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/l	0.00005	NONE	-	-	-	-	-
Hexachlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
Carbazole	mg/l	0.00005	NONE	-	-	-	-	-
Dibutyl phthalate	mg/l	0.00005	NONE	-	-	-	-	-
Anthraquinone	mg/l	0.00005	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/l	0.00005	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 28	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 52	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 101	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 118	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 138	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 153	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 180	µg/l	0.02	NONE	-	-	-	-	-
Total ICES-7 PCBs	µg/l	0.14	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506874	506875	506876	506877	506878
Sample Reference				MW25-02	MW25-03	MW25-04A	MW25-06	MW25-08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
Time Taken				1319	1216	1535	1118	1405
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.4	7.3	7.2	7.3	7
Electrical Conductivity at 20°C	µS/cm	10	NONE	810	1400	1900	1100	3700
Total Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	0.04	< 0.01	0.65
Complex Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	0.04	< 0.01	0.65
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	< 0.2	< 0.2	0.2	< 0.2	0.5
Sulphate as SO ₄	mg/l	0.045	NONE	68.8	229	326	213	1530
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloride	mg/l	0.15	NONE	90	180	350	63	440
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	0.18	0.15	5.7	0.078	46
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	2.05	2.27	4.31	1.96	11.5
Total Organic Carbon (TOC)	mg/l	0.1	NONE	2.14	2.39	4.47	2.19	11.5
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	290	300	300	380	550
Total Suspended Solids (L004B)	mg/l	2	NONE	140	720	110	23	470
Hardness - Total	mgCaCO ₃ /l	1	NONE	305	608	567	497	1630

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506874	506875	506876	506877	506878
Sample Reference				MW25-02	MW25-03	MW25-04A	MW25-06	MW25-08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
Time Taken				1319	1216	1535	1118	1405
Analytical Parameter (Water Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	0.0019	0.0021
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00014
Fluorene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00012
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00018
Anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.0001
Pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	< 0.00016	< 0.00016	< 0.00016	0.0019	0.0026
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.0023	0.0025	0.00083	0.0025	0.0032
Cadmium (dissolved)	mg/l	0.00002	NONE	< 0.00002	< 0.00002	0.00003	< 0.00002	< 0.00002
Chromium (dissolved)	mg/l	0.0002	NONE	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.00094
Copper (dissolved)	mg/l	0.0005	NONE	0.0015	0.0011	0.0024	0.0015	< 0.0005
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0014	0.0027	0.0053	0.0028	0.0063
Selenium (dissolved)	mg/l	0.0006	NONE	< 0.0006	< 0.0006	< 0.0006	< 0.0006	0.0052
Zinc (dissolved)	mg/l	0.0005	NONE	0.001	0.0013	0.0034	0.0013	0.0019

Calcium (dissolved)	mg/l	0.012	NONE	91	170	170	150	530
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	< 0.004	0.057	0.025	0.017	0.43



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506874	506875	506876	506877	506878
Sample Reference				MW25-02	MW25-03	MW25-04A	MW25-06	MW25-08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
Time Taken				1319	1216	1535	1118	1405
Analytical Parameter (Water Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

Total TPH Aliphatic >EC10 - EC35 _{EH_2D_AL_#1_#2}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aliphatic >EC10 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 _{HS+EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total TPH Aromatic >EC10 - EC35 _{EH_2D_AR_#1_#2}	µg/l	10	NONE	< 10	< 10	72	52	280
TPH - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	0.03	0.03	0.07
TPH - Aromatic >EC12 - EC16 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	0.03	0.02	0.12
TPH - Aromatic >EC16 - EC21 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	0.01	< 0.01	0.09
TPH - Aromatic >EC21 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aromatic >EC10 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	0.07	0.05	0.28
TPH - Aromatic >EC5 - EC35 _{HS+EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	0.07	0.05	0.28

TPH (EC10 - EC40) _{EH_2D_TOTAL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	0.07	< 0.01	0.28
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TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH_1D_TOTAL_MS}	mg/l	0.01	NONE	< 0.01	< 0.01	0.07	0.05	0.28
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VOCs

Chloromethane	mg/l	0.003	NONE	-	-	-	-	-
Chloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromomethane	mg/l	0.003	NONE	-	-	-	-	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	-	-	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	-	-	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Chloroform	mg/l	0.003	NONE	-	-	-	-	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Benzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Carbontetrachloride	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Trichloroethene	mg/l	0.003	NONE	-	-	-	-	-
Dibromomethane	mg/l	0.003	NONE	-	-	-	-	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	-	-	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506874	506875	506876	506877	506878
Sample Reference				MW25-02	MW25-03	MW25-04A	MW25-06	MW25-08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
Time Taken				1319	1216	1535	1118	1405
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	-	-	-
Toluene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	-	-	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	-	-	-
Dibromochloromethane	mg/l	0.003	NONE	-	-	-	-	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	-	-	-
Chlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	mg/l	0.003	NONE	-	-	-	-	-
Bromoform	mg/l	0.003	NONE	-	-	-	-	-
o-xylene	mg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	-	-	-
Bromobenzene	mg/l	0.003	NONE	-	-	-	-	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	-	-	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	-	-	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Butylbenzene	mg/l	0.003	NONE	-	-	-	-	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	-	-	-
3+4-Methylphenol	mg/l	0.0001	NONE	-	-	-	-	-
Aniline	mg/l	0.00005	NONE	-	-	-	-	-
Phenol	mg/l	0.00005	NONE	-	-	-	-	-
2-Chlorophenol	mg/l	0.00005	NONE	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/l	0.00005	NONE	-	-	-	-	-
1,3-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
1,4-Dichlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/l	0.00005	NONE	-	-	-	-	-
2-Methylphenol	mg/l	0.00005	NONE	-	-	-	-	-
Hexachloroethane	mg/l	0.00005	NONE	-	-	-	-	-
Nitrobenzene	mg/l	0.00005	NONE	-	-	-	-	-
4-Methylphenol	mg/l	0.00005	NONE	-	-	-	-	-
Isophorone	mg/l	0.00005	NONE	-	-	-	-	-
2-Nitrophenol	mg/l	0.00005	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/l	0.00005	NONE	-	-	-	-	-



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506874	506875	506876	506877	506878
Sample Reference				MW25-02	MW25-03	MW25-04A	MW25-06	MW25-08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
Time Taken				1319	1216	1535	1118	1405
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Bis(2-chloroethoxy)methane	mg/l	0.00005	NONE	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
2,4-Dichlorophenol	mg/l	0.00005	NONE	-	-	-	-	-
4-Chloroaniline	mg/l	0.00005	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/l	0.00005	NONE	-	-	-	-	-
4-Chloro-3-methylphenol	mg/l	0.00005	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/l	0.00005	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/l	0.00005	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/l	0.00005	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/l	0.00005	NONE	-	-	-	-	-
Dimethylphthalate	mg/l	0.00005	NONE	-	-	-	-	-
2,6-Dinitrotoluene	mg/l	0.00005	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/l	0.00005	NONE	-	-	-	-	-
Dibenzofuran	mg/l	0.00005	NONE	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/l	0.00005	NONE	-	-	-	-	-
Diethyl phthalate	mg/l	0.00005	NONE	-	-	-	-	-
4-Nitroaniline	mg/l	0.00005	NONE	-	-	-	-	-
Azobenzene	mg/l	0.00005	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/l	0.00005	NONE	-	-	-	-	-
Hexachlorobenzene	mg/l	0.00005	NONE	-	-	-	-	-
Carbazole	mg/l	0.00005	NONE	-	-	-	-	-
Dibutyl phthalate	mg/l	0.00005	NONE	-	-	-	-	-
Anthraquinone	mg/l	0.00005	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/l	0.00005	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 28	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 52	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 101	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 118	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 138	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 153	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 180	µg/l	0.02	NONE	-	-	-	-	-
Total ICES-7 PCBs	µg/l	0.14	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506879	506880	506881	506882	506883
Sample Reference				MW25-12	MW25-16A-D	MW25-16A-S	MW25-17	MW25-19A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/04/2025	08/04/2025	08/04/2025	07/04/2025	08/04/2025
Time Taken				1109	1105	1040	1611	0952
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					

General Inorganics

pH (L099)	pH Units	N/A	NONE	7.2	7.5	7.6	10.6	7.4
Electrical Conductivity at 20°C	µS/cm	10	NONE	2200	6200	4100	6100	1800
Total Cyanide	mg/l	0.01	NONE	0.22	0.43	0.75	2.6	< 0.01
Complex Cyanide	mg/l	0.01	NONE	0.22	0.43	0.75	2.6	< 0.01
Free Cyanide	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate as SCN	mg/l	0.2	NONE	< 0.2	0.8	1.6	2.2	< 0.2
Sulphate as SO ₄	mg/l	0.045	NONE	181	70.4	298	1520	117
Sulphide	mg/l	0.005	NONE	< 0.005	< 0.005	0.065	0.21	< 0.005
Chloride	mg/l	0.15	NONE	560	1800 ^{ss}	1300 ^{ss}	1800 ^{ss}	460
Ammoniacal Nitrogen as NH ₄ ⁺	mg/l	0.015	NONE	7.6	620 ^{ss}	84	12	5
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	2.89	31.7	34.1	42.1	2.53
Total Organic Carbon (TOC)	mg/l	0.1	NONE	3.18	31.7	34.4	47.1	2.63
Alkalinity as CaCO ₃	mgCaCO ₃ /l	3	NONE	240	700	570	90	260
Total Suspended Solids (L004B)	mg/l	2	NONE	49	52	11000 ^{ty}	23	40
Hardness - Total	mgCaCO ₃ /l	1	NONE	300	334	383	1180	328

Phenols by HPLC

Catechol	mg/l	0.0005	NONE	< 0.0005	0.27	0.13	0.3	< 0.0005
Resorcinol	mg/l	0.0005	NONE	< 0.0005	< 0.0005	0.24	0.084	< 0.0005
Cresols	mg/l	0.0005	NONE	< 0.0005	0.56	< 0.0005	< 0.0005	< 0.0005
Naphthols	mg/l	0.0005	NONE	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2-Isopropylphenol	mg/l	0.0005	NONE	< 0.0005	0.48	< 0.0005	< 0.0005	< 0.0005
Phenol	mg/l	0.0005	NONE	< 0.0005	1	0.85	0.28	< 0.0005
Total Xylenols & Ethylphenols	mg/l	0.0005	NONE	< 0.0005	3	< 0.0005	< 0.0005	< 0.0005
Trimethylphenol	mg/l	0.0005	NONE	< 0.0005	1.4	< 0.0005	< 0.0005	< 0.0005

Total Phenols

Total Phenols (HPLC)	mg/l	0.0035	NONE	< 0.0035	6.8	1.2	0.66	< 0.0035
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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506879	506880	506881	506882	506883
Sample Reference				MW25-12	MW25-16A-D	MW25-16A-S	MW25-17	MW25-19A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/04/2025	08/04/2025	08/04/2025	07/04/2025	08/04/2025
Time Taken				1109	1105	1040	1611	0952
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Speciated PAHs

Naphthalene	mg/l	0.00001	NONE	0.0013	3.5 % ^s	4.8 % ^s	0.11	0.00022
Acenaphthylene	mg/l	0.00001	NONE	< 0.00001	0.13	0.13	0.0014	< 0.00001
Acenaphthene	mg/l	0.00001	NONE	< 0.00001	0.014	0.03	0.012	< 0.00001
Fluorene	mg/l	0.00001	NONE	< 0.00001	0.029	0.062	0.0071	< 0.00001
Phenanthrene	mg/l	0.00001	NONE	< 0.00001	0.028	0.24	0.0077	< 0.00001
Anthracene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	0.022	0.0021	< 0.00001
Fluoranthene	mg/l	0.00001	NONE	< 0.00001	0.0037	0.035	0.0014	< 0.00001
Pyrene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	0.025	0.00087	< 0.00001
Benzo(a)anthracene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	0.0076	< 0.00001	< 0.00001
Chrysene	mg/l	0.00001	NONE	< 0.00001	< 0.00001	0.0066	< 0.00001	< 0.00001
Benzo(b)fluoranthene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	0.0068	< 0.00001	< 0.00001
Benzo(k)fluoranthene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	0.0027	< 0.00001	< 0.00001
Benzo(a)pyrene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	0.0066	< 0.00001	< 0.00001
Indeno(1,2,3-cd)pyrene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	0.0026	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	<0.0001 ^{&}	< 0.00001	< 0.00001
Benzo(ghi)perylene	mg/l	0.00001	NONE	< 0.00001	<0.0001 ^{&}	0.0031	< 0.00001	< 0.00001

Total PAH

Total EPA-16 PAHs	mg/l	0.00016	NONE	0.0013	3.7	5.4	0.14	0.00022
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Heavy Metals / Metalloids

Arsenic (dissolved)	mg/l	0.00015	NONE	0.00068	0.013	0.042	0.046	0.0038
Cadmium (dissolved)	mg/l	0.00002	NONE	0.00002	< 0.00002	< 0.00002	< 0.00002	0.00004
Chromium (dissolved)	mg/l	0.0002	NONE	< 0.00020	< 0.00020	0.00095	0.00097	< 0.00020
Copper (dissolved)	mg/l	0.0005	NONE	0.0013	0.0005	0.0007	< 0.0005	0.0025
Lead (dissolved)	mg/l	0.0002	NONE	< 0.0002	< 0.0002	0.0002	0.0006	< 0.0002
Mercury (dissolved)	mg/l	0.00005	NONE	< 0.00005	< 0.00005	< 0.00005	0.00199	< 0.00005
Nickel (dissolved)	mg/l	0.0005	NONE	0.0023	0.003	0.0088	0.018	0.0045
Selenium (dissolved)	mg/l	0.0006	NONE	< 0.0006	0.002	0.0019	0.0039	0.0019
Zinc (dissolved)	mg/l	0.0005	NONE	0.0025	0.0012	0.0023	0.0014	0.0015

Calcium (dissolved)	mg/l	0.012	NONE	99	69	-	-	110
Chromium (hexavalent)	mg/l	0.005	NONE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron (dissolved)	mg/l	0.004	NONE	0.13	0.25	0.41	1.2	0.004



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number	506879	506880	506881	506882	506883
Sample Reference	MW25-12	MW25-16A-D	MW25-16A-S	MW25-17	MW25-19A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	Other water	Other water	Other water	Other water	Other water
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	08/04/2025	08/04/2025	08/04/2025	07/04/2025	08/04/2025
Time Taken	1109	1105	1040	1611	0952
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

Total TPH Aliphatic >EC10 - EC35 _{EH_2D_AL_#1_#2}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/l	0.001	NONE	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
TPH - Aliphatic >EC10 - EC12 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC12 - EC16 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC16 - EC21 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC21 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total TPH Aliphatic >EC10 - EC35 _{EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH - Aliphatic >EC5 - EC35 _{HS+EH_2D_AL_#1_#2}	mg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total TPH Aromatic >EC10 - EC35 _{EH_2D_AR_#1_#2}	µg/l	10	NONE	< 10	20000	24000	4000	< 10
TPH - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	0.81	0.55	< 0.0010	< 0.0010
TPH - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	0.096	0.1	< 0.0010	< 0.0010
TPH - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/l	0.001	NONE	< 0.0010	0.16	0.57	< 0.0010	< 0.0010
TPH - Aromatic >EC10 - EC12 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	14	16.4	1.65	< 0.01
TPH - Aromatic >EC12 - EC16 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	3.85	5.46	0.78	< 0.01
TPH - Aromatic >EC16 - EC21 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	1.02	1.19	0.64	< 0.01
TPH - Aromatic >EC21 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	0.7	0.7	0.91	< 0.01
Total TPH Aromatic >EC10 - EC35 _{EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	19.6	23.8	3.98	< 0.01
TPH - Aromatic >EC5 - EC35 _{HS+EH_2D_AR_#1_#2}	mg/l	0.01	NONE	< 0.01	20.6	25	3.98	< 0.01

TPH (EC10 - EC40) _{EH_2D_TOTAL_#1_#2}	mg/l	0.01	NONE	< 0.01	19.6	23.8	3.98	< 0.01
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TPH Total >C5 - C35 Aliphatic & Aromatic _{HS+EH_1D_TOTAL_MS}	mg/l	0.01	NONE	< 0.01	20.6	25	3.98	< 0.01
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VOCs

Chloromethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Chloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Bromomethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Vinyl Chloride	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Trichlorofluoromethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1-Dichloroethene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Trans 1,2-dichloroethylene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
MTBE (Methyl Tertiary Butyl Ether)	mg/l	0.003	NONE	-	-	< 0.003	< 0.003	-
1,1-Dichloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
2,2-Dichloropropane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Chloroform	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1,1-Trichloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dichloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1-Dichloropropene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Cis-1,2-dichloroethene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Benzene	mg/l	0.001	NONE	< 0.001	0.82	0.55	< 0.001	< 0.001
Carbontetrachloride	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dichloropropane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Trichloroethene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Dibromomethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Bromodichloromethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Cis-1,3-dichloropropene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506879	506880	506881	506882	506883
Sample Reference				MW25-12	MW25-16A-D	MW25-16A-S	MW25-17	MW25-19A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/04/2025	08/04/2025	08/04/2025	07/04/2025	08/04/2025
Time Taken				1109	1105	1040	1611	0952
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Trans-1,3-dichloropropene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Toluene	mg/l	0.001	NONE	< 0.001	0.096	0.099	< 0.001	< 0.001
1,1,2-Trichloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,3-Dichloropropane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Dibromochloromethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Tetrachloroethene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dibromoethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Chlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1,1,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Ethylbenzene	mg/l	0.001	NONE	< 0.001	0.011	0.065	< 0.001	< 0.001
p & m-xylene	mg/l	0.001	NONE	< 0.001	0.091	0.27	< 0.001	< 0.001
Styrene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Bromoform	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
o-xylene	mg/l	0.001	NONE	< 0.001	0.055	0.21	< 0.001	< 0.001
Isopropylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,1,2,2-Tetrachloroethane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Bromobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
n-Propylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
2-Chlorotoluene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
4-Chlorotoluene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,3,5-Trimethylbenzene	mg/l	0.003	NONE	-	-	0.0312	< 0.0030	-
tert-Butylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2,4-Trimethylbenzene	mg/l	0.003	NONE	-	-	0.137	< 0.0030	-
sec-Butylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,3-Dichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
p-Isopropyltoluene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,4-Dichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Butylbenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2-Dibromo-3-chloropropane	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2,4-Trichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
Hexachlorobutadiene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
1,2,3-Trichlorobenzene	mg/l	0.003	NONE	-	-	< 0.0030	< 0.0030	-
3+4-Methylphenol	mg/l	0.0001	NONE	-	-	0.32	-	-
Aniline	mg/l	0.00005	NONE	-	-	0.19	-	-
Phenol	mg/l	0.00005	NONE	-	-	0.15	-	-
2-Chlorophenol	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Bis(2-chloroethyl)ether	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
1,3-Dichlorobenzene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
1,2-Dichlorobenzene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
1,4-Dichlorobenzene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Bis(2-chloroisopropyl)ether	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
2-Methylphenol	mg/l	0.00005	NONE	-	-	0.4	-	-
Hexachloroethane	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Nitrobenzene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
4-Methylphenol	mg/l	0.00005	NONE	-	-	0.32	-	-
Isophorone	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
2-Nitrophenol	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
2,4-Dimethylphenol	mg/l	0.00005	NONE	-	-	0.98	-	-



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Environmental Science

Analytical Report Number: 25-017701

Project / Site name: Cadent Hinckley

Your Order No: 415001-00017-00401

Lab Sample Number				506879	506880	506881	506882	506883
Sample Reference				MW25-12	MW25-16A-D	MW25-16A-S	MW25-17	MW25-19A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				Other water	Other water	Other water	Other water	Other water
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/04/2025	08/04/2025	08/04/2025	07/04/2025	08/04/2025
Time Taken				1109	1105	1040	1611	0952
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Bis(2-chloroethoxy)methane	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
1,2,4-Trichlorobenzene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
2,4-Dichlorophenol	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
4-Chloroaniline	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Hexachlorobutadiene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
4-Chloro-3-methylphenol	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
2,4,6-Trichlorophenol	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
2,4,5-Trichlorophenol	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
2-Methylnaphthalene	mg/l	0.00005	NONE	-	-	0.32	-	-
2-Chloronaphthalene	mg/l	0.00005	NONE	-	-	0.0018	-	-
Dimethylphthalate	mg/l	0.00005	NONE	-	-	0.001	-	-
2,6-Dinitrotoluene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
2,4-Dinitrotoluene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Dibenzofuran	mg/l	0.00005	NONE	-	-	0.1	-	-
4-Chlorophenyl phenyl ether	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Diethyl phthalate	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
4-Nitroaniline	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Azobenzene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Bromophenyl phenyl ether	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Hexachlorobenzene	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Carbazole	mg/l	0.00005	NONE	-	-	0.13	-	-
Dibutyl phthalate	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Anthraquinone	mg/l	0.00005	NONE	-	-	< 0.00005	-	-
Butyl benzyl phthalate	mg/l	0.00005	NONE	-	-	< 0.00005	-	-

PCBs by GC-MS

PCB Congener 28	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 52	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 101	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 118	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 138	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 153	µg/l	0.02	NONE	-	-	-	-	-
PCB Congener 180	µg/l	0.02	NONE	-	-	-	-	-
Total ICES-7 PCBs	µg/l	0.14	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected