

Cambridge Waste Water Treatment Plant Relocation Project
Anglian Water Services Limited

Appendix 14.4: Geoenvironmental Results – Waterbeach

Application Document Reference: 5.4.14.4
PINS Project Reference: WW010003
APFP Regulation No. 5(2)a

Determinand	Unit	LOD	Location ID												
			BH01 Date Sampled	BH02 13/01/22	BH03 12/01/22	BH04 17/01/22	BH05 21/01/22	BH05 21/01/22	BH06 19/01/22	BH06 19/01/22	BH07 24/01/22	BH08 25/01/22	BH08 25/01/2022	BH09 26/01/2022	
			Depth Strata	0.65 SUPT	2 Topsoil	0.75 SUPT	0.80 Peat	0.35 topsoil	2.1 SUPT	0.25 Topsoil	1.3 Chalk	0.10 - 0.20 MG	0.35 MG	0.8 SUPT	1.35 SUPT
			Pos Park 1% SOM	Commercial 1% SOM											
Asbestos Screen (S)	N/a	N/a	-	-	Not Detected	-	Not Detected	-	Not Detected	Not Detected	Not Detected	-	Not Detected	-	-
pH	pH Units	N/a	-	-	7.8	8.3	7.6	7.3	-	7.8	7.4	8.1	7.8	-	8.2
Total Cyanide	mg/kg	<2	18	85	<2	<2	<2	<2	-	6	<2	<2	<2	-	<2
TOC (Total Organic Carbon)	%	<0.1	-	-	0.3	0.7	0.4	2.6	-	10.7	2.7	2.2	1.5	-	0.3
Arsenic (As)	mg/kg	<2	170	640	7	3	17	17	-	<2	11	4	9	-	11
Cadmium (Cd)	mg/kg	<0.2	560	190	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	-	<0.2
Chromium (Cr)	mg/kg	<2	33000	8600	10	12	15	17	-	5	15	5	16	-	11
Chromium (hexavalent)	mg/kg	<2	220	33	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
Copper (Cu)	mg/kg	<4	44000	68000	<4	27	12	24	-	22	13	7	12	-	5
Lead (Pb)	mg/kg	<3	-	-	5	12	9	18	-	4	27	3	24	-	5
Mercury (Hg)	mg/kg	<1	26 (4.3)	35	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1
Nickel (Ni)	mg/kg	<3	800	890	8	54	26	32	-	14	15	8	16	-	13
Selenium (Se)	mg/kg	<2	1800	12000	<3	<3	<3	<3	-	<3	<3	<3	<3	-	<3
Zinc (Zn)	mg/kg	<3	170000	730000	18	52	38	73	-	44	41	11	47	-	22
Total Phenols (monohydric)	mg/kg	<2	440	440	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
TPH - Aliphatic >C3 - C40	mg/kg	<10	45000	160000	<10	<10	<10	<10	-	<10	<10	<10	<10	-	<10
TPH - Aromatic >C3 - C40	mg/kg	<10	7800	28000	<10	<10	<10	<10	-	<10	<10	<10	<10	-	<10
TPH - Aliphatic / Aromatic (C3 - C40) total	mg/kg	<42	-	-	<42	<42	<42	<42	-	<42	<42	<42	<42	-	<42
Naphthalene	mg/kg	<0.1	1200 (76)	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.18	<0.1	-	<0.1
Acenaphthylene	mg/kg	<0.1	29000	83000	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Acenaphthene	mg/kg	<0.1	29000	84000	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Fluorene	mg/kg	<0.1	20000	63000	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Phenanthrene	mg/kg	<0.1	6200	22000	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Anthracene	mg/kg	<0.1	150000	520000	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Fluoranthene	mg/kg	<0.1	6300	23000	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.12	-	<0.1
Pyrene	mg/kg	<0.1	15000	54000	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.11	-	<0.1
Benzo(a)anthracene	mg/kg	<0.1	49	170	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Chrysene	mg/kg	<0.1	93	350	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Benzo(b)fluoranthene	mg/kg	<0.1	13	44	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Benzo(k)fluoranthene	mg/kg	<0.1	370	1200	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Benzo(a)pyrene	mg/kg	<0.1	11	35	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	150	500	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	1.1	3.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	1400	3900	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Coronene	mg/kg	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1
Total Dily Waste PAHs	mg/kg	<1	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1
Total Dutch 10 PAHs	mg/kg	<1	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1
Total EPA-16 PAHs	mg/kg	<1.6	-	-	<1.6	<1.6	<1.6	<1.6	-	<1.6	<1.6	<1.6	<1.6	-	<1.6
Total WAC-17 PAHs	mg/kg	<1.7	-	-	<1.7	<1.7	<1.7	<1.7	-	<1.7	<1.7	<1.7	<1.7	-	<1.7
Aliphatic >C6 - C6	mg/kg	<0.01	95000	3200	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01
Aliphatic >C6 - C8	mg/kg	<0.05	150000	7800	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
Aliphatic >C8 - C10	mg/kg	<2	14000	2000	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
Aliphatic >C10 - C12	mg/kg	<2	21000	9700	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
Aliphatic >C12 - C16	mg/kg	<3	25000	59000	<3	<3	<3	<3	-	<3	<3	<3	<3	-	<3
Aliphatic >C16 - C35	mg/kg	<10	450000	160000	<10	<10	<10	<10	-	<10	<10	<10	<10	-	<10
Aliphatic >C35 - C44	mg/kg	<30	450000	160000	<30	<30	<30	<30	-	<30	<30	<30	<30	-	<30
Aliphatic (C5 - C44)	mg/kg	<30	450000	160000	<30	<30	<30	<30	-	<30	<30	<30	<30	-	<30
Aromatic >C5 - C7	mg/kg	<0.01	76000	26000	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01
Aromatic >C7 - C8	mg/kg	<0.05	87000	56000	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
Aromatic >C8 - C10	mg/kg	<2	7200	3500	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
Aromatic >C10 - C12	mg/kg	<2	9200	16000	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
Aromatic >C12 - C16	mg/kg	<2	10000	36000	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
Aromatic >C16 - C21	mg/kg	<3	7600	28000	<3	<3	<3	<3	-	<3	<3	<3	<3	-	<3
Aromatic >C21 - C35	mg/kg	<10	7800	28000	<10	<10	<10	<10	-	<10	<10	<10	<10	-	<10
Aromatic >C35 - C44	mg/kg	<30	7800	28000	<30	<30	<30	<30	-	<30	<30	<30	<30	-	<30
Aromatic >C5 - C44	mg/kg	<60	7800	28000	<60	<60	<60	<60	-	<60	<60	<60	<60	-	<60
Benzene	ug/kg	<2	90	27	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
Toluene	ug/kg	<5	87000 (569)	56000	<5	<5	<5	<5	-	<5	<5	<5	<5	-	<5
Ethylbenzene	ug/kg	<2	17000 (518)	5700	4	<2	<2	<2	-	<2	<2	<2	<2	-	<2
p & m-xylene	ug/kg	<2	17000	5900	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
o-xylene	ug/kg	<2	17000	6600	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2
MTBE	ug/kg	<5	98000	7500	<5	<5	<5	<5	-	<5	<5	<5	<5	-	<5

Get in touch

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Emailing at info@cwwtpr.com




Calling our Freephone information line on **0808 196 1661**



Writing to us at **Freepost: CWWTPR**



Visiting our website at 

You can view all our DCO application documents and updates on the application on The Planning Inspectorate website:

<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/cambridge-waste-water-treatment-plant-relocation/>