

Title	Water Quality		
Subject	Environment		
Description	Sampling of water quality specifications		
Publisher	not published		
Contributor	Environment Agency		
Date	2007 -2012		
Type	Sampling data		
Format	Excel spreadsheet		
Identifier	En03		
Source	Environment Agency		
Language	English		
Relation	Meteor Communications (Europe) Ltd, ODA		
Coverage	down stream of River Lee		
Rights	Environment Agency		

En 3: Water quality						
City						
	Number of sites monitored					
		Bathing water		Nutrients in freshwater		
		Concentration of intestinal enterococci (faecal streptococci)	Concentration of Escherischia coli	Concentration of nitrate	Concentration of orthophosphate	total phosphorus as microgram P/l
Rivers	River Lee (Canning Town) (TQ3920081500) (1)			10.24 (6.84 - 15.7)	1.36 (0.537 - 3.05)	-- (-- --)
	River Lee (Carpenters Road) (TQ3770084500) (1)			11.79 (8.15 - 17.4)	1.89 (0.56 - 3.15)	2.1 (0.646 - 3.49)
	Lea Navigation (Three Mills Lane) (TQ3820082800) (1)			8.64 (2.95 - 14.6)	1.67 (0.199 - 2.69)	-- (-- --)
	SWMP01 (E537058.98 N186065.4) (2)		37.2 (<1 - 201)	11.7 (8.4 - 15.4)		
	SWMP07 (E537655.67 N184569.58) (2)		61.7 (<1 - 690)	11.5 (8.3 - 15.1)		
	SWMP17 (E538094.86 N182960.31) (2)		4 (<1 - 32)	10.3 (4.7 - 14.1)		
	SWMP42 (E538361.47 N183141.79) (2)		77 (<1 - 620)	11.3 (7.6 - 15.3)		
Lakes	Site 1 (name)					
	Site 2 (name)					
	Site x (name)					
Coastal waters	Site 1 (name)					
	Site 2 (name)					
	Site x (name)					
	Number of sites where the WHO limits are exceeded					
Region						
	Number of sites monitored					
		Bathing water		Nutrients in freshwater		
		Concentration of intestinal enterococci (faecal streptococci)	Concentration of Escherischia coli	Concentration of nitrate	Concentration of orthophosphate and total phosphorus as microgram P/l	total phosphorus as microgram P/l
Rivers	Site 1 (name)					
	Site 2 (name)					
	Site x (name)					
Lakes	Site 1 (name)					
	Site 2 (name)					
	Site x (name)					
Coastal waters	Site 1 (name)					
	Site 2 (name)					
	Site x (name)					
	Number of sites where the WHO limits					
Sources		1 EA Data				
		2 ODA Data				
		3				
		4				
		5				
		x				
Notes						
1) Faecal Streptococci data is not collected by ourselves or by the Environment Agency;						
2) Orthophosphate / Phosphorus data is only collected by the Environment Agency, while E. Coli is only collected by ODA. As the two sampling strategies do not overlay there is not a clear overlay of data except at one point, (EA River Lee Carpenters Road / ODA SWMP7);						
3) Locations have been provided within the table – as OS Grid references for the Environment Agency points and British National Grid for the ODA points						
4) The ODA sampling strategy covers a number of locations across the park, and only a few points have been selected to cover here. Attached is a copy of the ODA surface water sampling strategy which provides a fuller explanation of the monitoring undertaken on a monthly basis to meet the planning conditions.						

The following figures are average values.										
	TEMP	COND	DO-pcent	DO-MGL	PH	AMMONIUM	TURBIDITY	DOO	BATTERY	UIA
Spitalfields (ODA site)										
01/01/2009 - 31/12/2009	15.14	919.99	69.22	7.15	7.63	1.00	18.06	32.49	13.93	0.02
01/01/2010 - 17/06/2010	10.52	905.20	77.55	8.84	7.71	0.71	14.12	79.05	13.92	0.01
01/01/2011 - 31/12/2011	15.14	919.99	69.22	7.15	7.63	0.91	18.06	32.49	13.93	0.02
01/01/2012 - 17/12/2012	13.09	915.03	67.12	7.29	7.52	1.44	21.68	72.98	13.95	0.01
Carpenters Rd (ODA site)										
30/08/2007 - 31/12/2007	13.69	1042.34	60.75	6.37	7.59	0.84	20.96		13.70	
01/01/2008 - 31/12/2008	13.71	859.94	83.31	8.68	7.83	0.99	9.73		13.31	0.01
01/01/2009 - 31/12/2009	15.12	949.29	74.86	7.70	7.58	1.35	8.90	26.20	13.10	0.18
01/01/2010 - 31/12/2010	15.10	947.35	66.48	6.86	7.57	7.78	5.71	64.17	13.34	0.35
01/01/2011 - 17/06/2011, 21/	12.58	988.41	72.40	7.82	7.52	1.06	8.33	68.75	13.31	0.01
01/01/2012 - 17/12/2012	14.48	920.78	74.40	7.67	7.54	1.11	23.11	69.85	14.10	0.11
Sugar House Lane (ODA site)										
16/10/2007 - 31/12/2007	10.01	888.64	86.36	9.78	7.86	1.11	28.83		14.41	
01/01/2008 - 31/12/2008	13.52	879.21	79.28	8.41	7.79	35.69	15.28		14.20	0.01
01/01/2009 - 31/12/2009	14.26	933.97	67.11	7.09	7.59	1.33	11.45	26.72	14.05	0.23
01/01/2010 - 17/06/2010	10.90	905.34	80.36	9.05	7.64	0.77	10.11	80.27	13.79	0.01
01/01/2011 - 31/12/2011	16.32	940.73	53.84	5.33	7.42	1.37	59.94	57.82	14.19	0.01
01/01/2012 - 17/12/2012	14.06	888.16	66.96	6.98	7.52	1.18	9.58	70.65	13.72	0.01
Temperature in Degrees C										
Conductivity in Microsiemens										
Dissolved Oxygen electrochemically measured in % Saturation										
Dissolved Oxygen electrochemically measured in milligrams per litre										
pH										
Ammonium in milligrams per litre										
Turbidity in nephelometric turbidity units										
Dissolved Oxygen optically measured in % Saturation										
Battery voltage										
Unionised Ammonia calculated from above measurements										