



Our Ref: R3055-03-2023
Your Ref. 3500199498

29 March 2023

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For the attention of Mr Ian Hugo

CANARY WHARF & LONDON DOCKLANDS WATER SAMPLING, LABORATORY ANALYSIS, BATHING WATER QUALITY ASSESSMENT AND DATA COLLECTION

1 Introduction

In accordance with the Bathing Water Quality Sampling and Testing programme, we present our site observations/measurements and laboratory analysis results for 13 March 2023.

2 Fieldwork

On site observations and measurements were made and samples collected for microbial laboratory analysis from eight pre-selected sites throughout the London Docklands area. In addition, temperature data at each location and an additional location (M20) are monitored at one metre intervals to a maximum depth of eight metres, it should be noted that where the base of the dock is less than eight meters measurements cannot be made. Samples were collected from the side of a boat provided by the Canal and River Trust.

A sample location plan is provided in Appendix A.

3 Results

Laboratory analysis results are appended in Appendix B.

4 Discussion

The results of laboratory analysis for *Enterococci* and *E.Coli* have been compared to the mandatory values set out in Directive 2006/7/EC of the European Parliament and of the Council concerning the management of bathing water quality and United Kingdom Statutory Instrument 2013 No. 1675.

Comments have also been made comparing the field observations and measurements and Total Coliforms to former regulations "The Bathing Waters (Classification) Regulations 1991"

(Statutory Instrument SI 1991 No. 1597, and SI 2003 No. 1238) and “European Community Council Directive of 8th December 1975 concerning the quality of bathing water” (76/160/EEC).

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris.

With regards to total coliforms, all of the sample locations monitored complied with the Mandatory Value 76/160/EEC (10,000 cfu per 100 ml) and one location (WI15) recorded levels above the Former Guideline Value 76/160/EE (500 cfu per 100 ml).

Under the Directive 2006/7/EC and Bathing water Regulations 2013 all eight samples sites met the ‘Excellent’ quality for both *E.coli* and Intestinal *Enterococci* and were therefore classed as SUITABLE for water contact sports and bathing water.

5 Conclusions and Recommendations

On this occasion all of the eight locations sampled complied with the guidance for water contact sports and bathing water quality.

The next sampling visit is provisionally scheduled for April 2023, subject to contract renewal. Each location should be available for sampling to provide an up to date account of the water quality.

We trust that we have interpreted your requirements correctly and will be pleased to discuss the matter further as necessary.

Yours Sincerely,



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APPENDIX A
SAMPLE LOCATION PLAN

Sampling Area 1: West India Dock

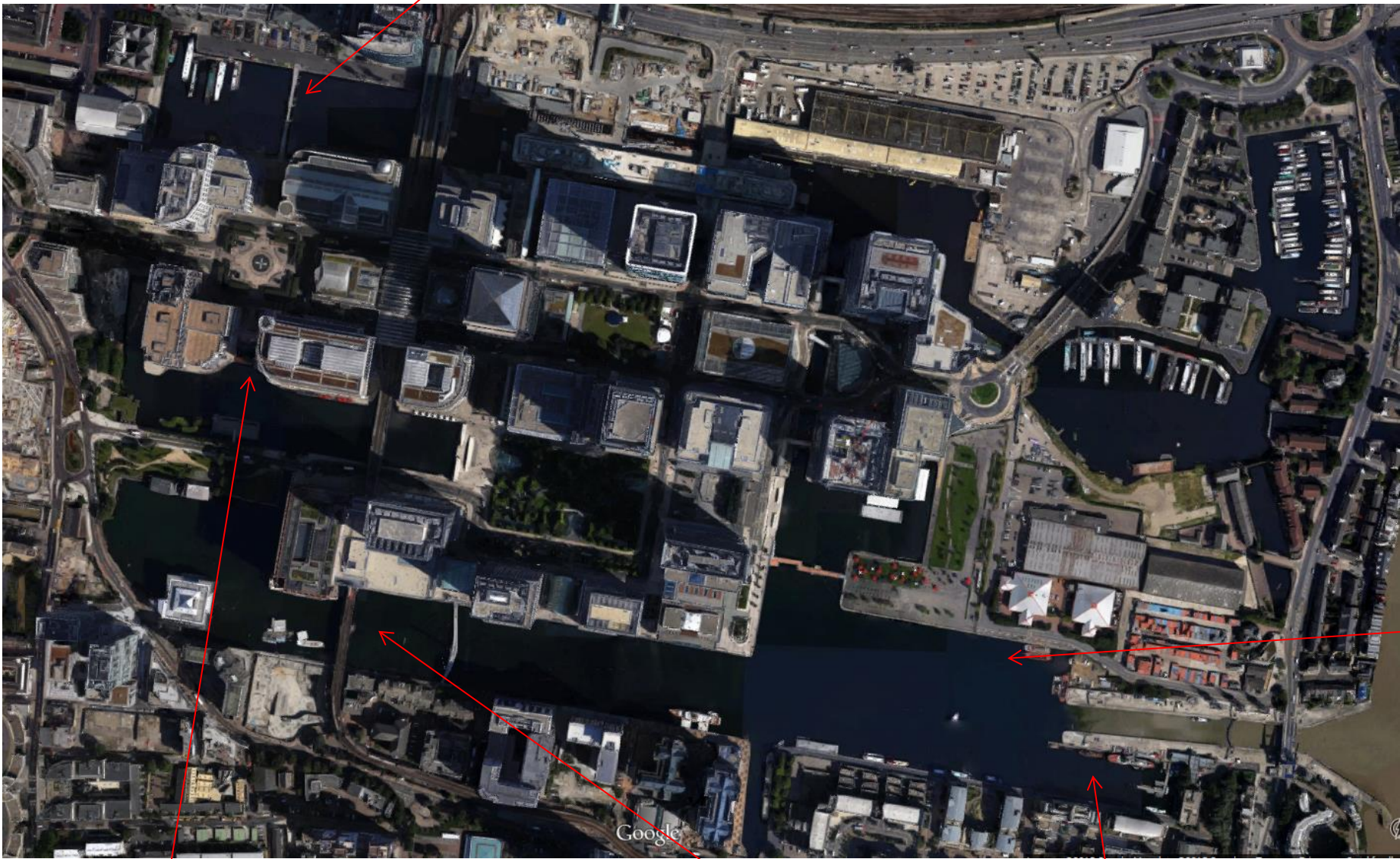


Sampling Area 2:
Blackwall Basin

Sampling Area 3: Millwall Dock

Sampling Area 1: West India Dock

WI9 – East Side of Pedestrian Bridge



WI14 –
Ceased
sampling
location,
Barge (Via
Boat

WI11 – South Side of Pedestrian Bridge
(Mackenzie walk)

WI13 – Heron Quays Station bridge (via Boat)

WI15 – **sampling location**, Docklands Scout Project (Via
Boat)

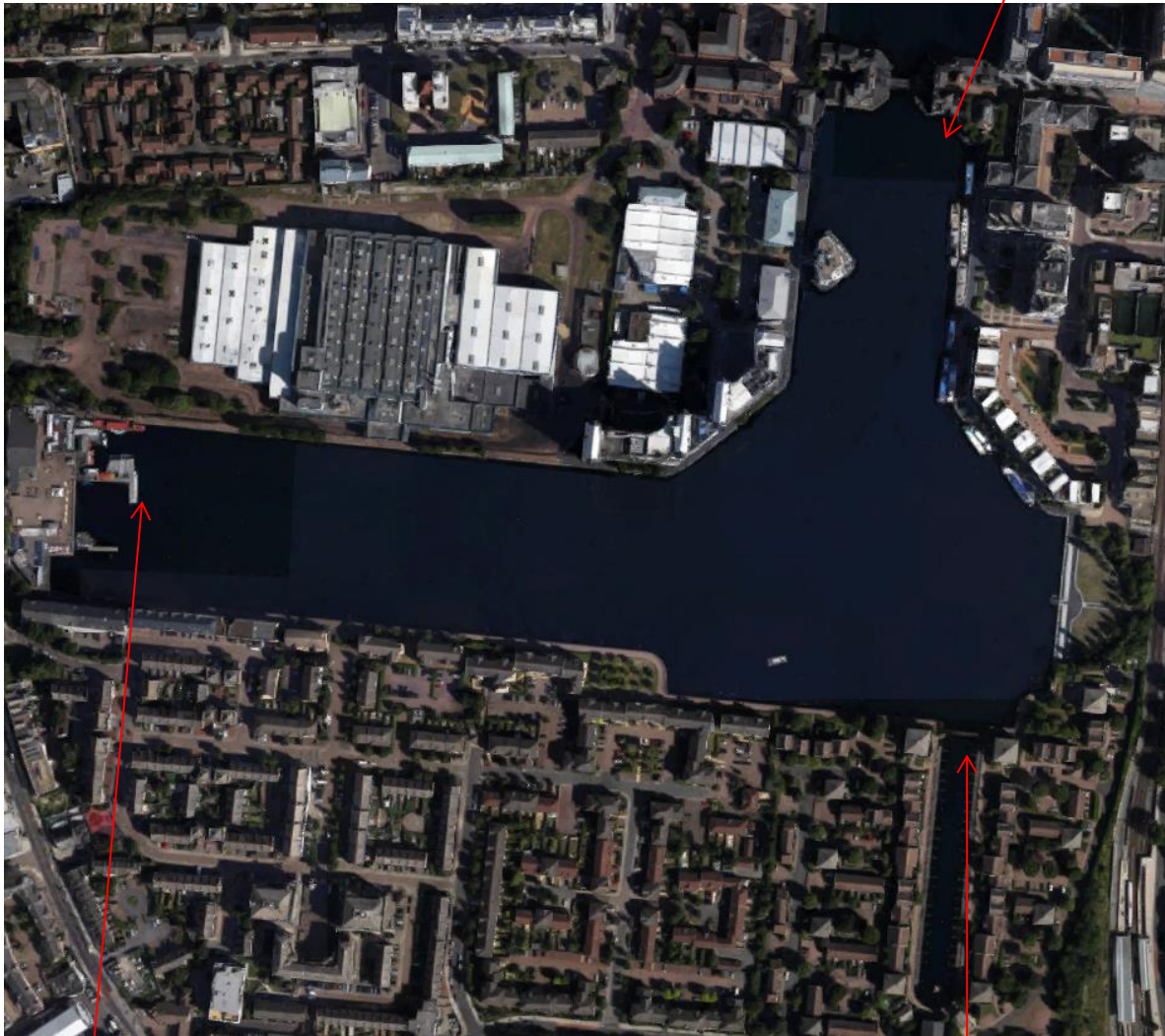
Sampling Area 2: Blackwall Basin



B16 -

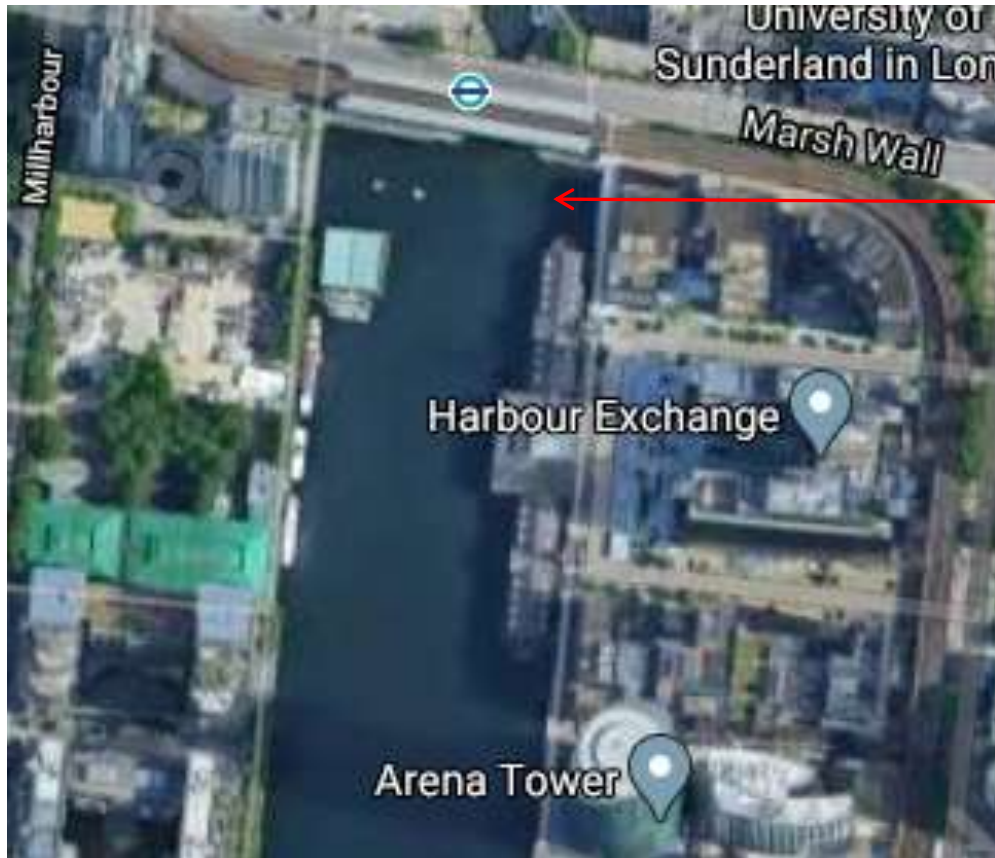
Sampling Area 3: Millwall Dock

M19A – Corner of Dock Adjacent to Restaurant



M18 – Watersports Centre

M19 – Clippers Quay Pontoon



M20

APPENDIX B
ANALYTICAL LABORATORY RESULTS

CANAL & RIVER TRUST
BATHING WATER QUALITY SURVEY

LOCATION: WI 9 (West India North Branch Dock – below pedestrian bridge)

Date: 13 March 2023

Weather: Rain

Time: 14:00

On site Observations	Units	Result	SI 1991, No.1597 or Mandatory Value 76/160/EEC	Former Guideline Value 76/160/EEC	
Water Colour	~	Clear	No abnormal change	~	
Oil Film	mg/l	N/A	No visible film	0.3	
Lasting Form/Surfactants	mg/l	N/A	No lasting foam	0.3	
Phenolic Odour/Phenols	mg/l	N/A	No specific odour	<0.005	
Floatables	~	N/A	~	absence	
On site Measurements					
pH	~	6.14	6 to 9	~	
Electrical Conductivity (ACT)	µS/cm, 25°C	839.56	~	~	
Electrical Conductivity (SP)	µS/cm, 25°C	1028.9	~	~	
Water Temperature	°C	5.23	~	~	
Ambient Temperature	°C	6	~	~	
Transparency (Secchi Depth) m	M	-	1*	2	
Dissolved Oxygen	mg/l	12.44	~	~	
Dissolved Oxygen Saturation	%	90.48	~	80 to 120	
Laboratory Analysis					
Total Coliforms	cfu per 100 ml ¹	290	10,000	500	
Directive 2006/7/EC and Bathing Water Regulations 2013					
Water Quality Assessment – WI9 – LJ324			Excellent	Good	Sufficient
<i>E.Coli</i>	cfu per 100 ml ¹	26	<250	250-500	500
Intestinal <i>Enterococci</i>	cfu per 100 ml ¹	3	<100	100-200	185

¹ Colony forming units (cfu) per 100 ml

Summary

On this occasion all onsite parameters complied with and the SI 1991, No.1597 or Mandatory Value 76/160/EEC. Under the Directive 2006/7/EC and Bathing water Regulations 2013, *E.Coli* and Intestinal *Enterococci* were found to be within the threshold for 'excellent'.

Conclusion

The water in this location complied with the microbial limit within the Bathing Water Regulations and would be considered **SUITABLE** for water contact sports and bathing water.

Notes

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris. Items marked with an asterisk allow for exceedance of the limits on the basis of exceptional geographical or meteorological conditions.

CANAL & RIVER TRUST
BATHING WATER QUALITY SURVEY

LOCATION: WI 11 (West India Middle Branch Dock, west end, off quay)

Date: 13 March 2023

Weather: Rain

Time: 14:15

On site Observations	Units	Result	SI 1991, No.1597 or Mandatory Value 76/160/EEC	Former Guideline Value 76/160/EEC	
Water Colour	~	Clear	No abnormal change	~	
Oil Film	mg/l	-	No visible film	0.3	
Lasting Form/Surfactants	mg/l	-	No lasting foam	0.3	
Phenolic Odour/Phenols	mg/l	-	No specific odour	<0.005	
Floatables	~	-	~	absence	
On site Measurements					
pH	~	6.84	6 to 9	~	
Electrical Conductivity (ACT)	µS/cm, 25°C	857.55	~	~	
Electrical Conductivity (SP)	µS/cm, 25°C	1134.9	~	~	
Water Temperature	°C	6.28	~	~	
Ambient Temperature	°C	6	~	~	
Transparency (Secchi Depth)	M	-	1*	2	
Dissolved Oxygen	mg/l	12.35	~	~	
Dissolved Oxygen Saturation	%	91.04	~	80 to 120	
Laboratory Analysis					
Total Coliforms	cfu per 100 ml ¹	19	10,000	500	
Directive 2006/7/EC and Bathing Water Regulations 2013					
Water Quality Assessment – WI 11– LJ325			Excellent	Good	Sufficient
<i>E.Coli</i>	cfu per 100 ml ¹	8	<250	250-500	500
Intestinal <i>Enterococci</i>	cfu per 100 ml ¹	5	<100	100-200	185

¹ Colony forming units (cfu) per 100 ml

Summary

On this occasion all onsite parameters complied with and the SI 1991, No.1597 or Mandatory Value 76/160/EEC. Under the Directive 2006/7/EC and Bathing water Regulations 2013, *E.Coli* and Intestinal *Enterococci* were found to be within the threshold for 'excellent'.

Conclusion

The water in this location complied with the microbial limit within the Bathing Water Regulations and would be considered **SUITABLE** for water contact sports and bathing water.

Notes

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris. Items marked with an asterisk allow for exceedance of the limits on the basis of exceptional geographical or meteorological conditions.

CANAL & RIVER TRUST
BATHING WATER QUALITY SURVEY

LOCATION: WI 13 (West India South Branch Dock, below DLR bridge)

Date: 13 March 2023

Weather: Rain

Time: 12:00

On site Observations	Units	Result	SI 1991, No.1597 or Mandatory Value 76/160/EEC	Former Guideline Value 76/160/EEC	
Water Colour	~	Clear	No abnormal change	~	
Oil Film	mg/l	N/A	No visible film	0.3	
Lasting Form/Surfactants	mg/l	N/A	No lasting foam	0.3	
Phenolic Odour/Phenols	mg/l	N/A	No specific odour	<0.005	
Floatables	~	N/A	~	absence	
On site Measurements					
pH	~	7.93	6 to 9	~	
Electrical Conductivity (ACT)	µS/cm, 25°C	628.9	~	~	
Electrical Conductivity (SP)	µS/cm, 25°C	901.1	~	~	
Water Temperature	°C	6.9	~	~	
Ambient Temperature	°C	6	~	~	
Transparency (Secchi Depth)	M	-	1*	2	
Dissolved Oxygen	mg/l	10.22	~	~	
Dissolved Oxygen Saturation	%	99.19	~	80 to 120	
Laboratory Analysis					
Total Coliforms	cfu per 100 ml ¹	360	10,000	500	
Directive 2006/7/EC and Bathing Water Regulations 2013					
Water Quality Assessment – WI 13 –LJ326			Excellent	Good	Sufficient
<i>E.Coli</i>	cfu per 100 ml ¹	50	<250	250-500	500
Intestinal <i>Enterococci</i>	cfu per 100 ml ¹	13	<100	100-200	185

¹ Colony forming units (cfu) per 100 ml

Summary

On this occasion all onsite parameters complied with and the SI 1991, No.1597 or Mandatory Value 76/160/EEC. Under the Directive 2006/7/EC and Bathing water Regulations 2013, *E.Coli* and Intestinal *Enterococci* were found to be within the threshold for 'excellent'.

Conclusion

The water in this location complied with the microbial limit within the Bathing Water Regulations and would be considered **SUITABLE** for water contact sports and bathing water.

Notes

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris. Items marked with an asterisk allow for exceedance of the limits on the basis of exceptional geographical or meteorological conditions.

CANAL & RIVER TRUST
BATHING WATER QUALITY SURVEY

LOCATION: WI 15 (West India Dock, South, Docklands Scout project)

Date: 13 March 2023

Weather: Rain

Time: 13:00

On site Observations	Units	Result	SI 1991, No.1597 or Mandatory Value 76/160/EEC	Former Guideline Value 76/160/EEC	
Water Colour	~	Clear	No abnormal change	~	
Oil Film	mg/l	N/A	No visible film	0.3	
Lasting Form/Surfactants	mg/l	N/A	No lasting foam	0.3	
Phenolic Odour/Phenols	mg/l	N/A	No specific odour	<0.005	
Floatables	~	N/A	~	absence	
On site Measurements					
pH	~	7.53	6 to 9	~	
Electrical Conductivity (ACT)	µS/cm, 25°C	888.34	~	~	
Electrical Conductivity (SP)	µS/cm, 25°C	1118.2	~	~	
Water Temperature	°C	6.55	~	~	
Ambient Temperature	°C	6	~	~	
Transparency (Secchi Depth)	M	-	1*	2	
Dissolved Oxygen	mg/l	12.45	~	~	
Dissolved Oxygen Saturation	%	90.94	~	80 to 120	
Laboratory Analysis					
Total Coliforms	cfu per 100 ml ¹	1,000	10,000	500	
Directive 2006/7/EC and Bathing Water Regulations 2013					
Water Quality Assessment – WI 15 – LJ327			Excellent	Good	Sufficient
<i>E.Coli</i>	cfu per 100 ml ¹	30	<250	250-500	500
Intestinal <i>Enterococci</i>	cfu per 100 ml ¹	22	<100	100-200	185

¹ Colony forming units (cfu) per 100 ml

Summary

On this occasion with the exception of the Former Guideline Value (76/160/EEC) all onsite parameters complied with and the SI 1991, No.1597 or Mandatory Value 76/160/EEC. Under the Directive 2006/7/EC and Bathing water Regulations 2013, *E.Coli* and Intestinal *Enterococci* were found to be within the threshold for 'excellent'.

Conclusion

The water in this location complied with the microbial limit within the Bathing Water Regulations and would be considered SUITABLE for water contact sports and bathing water.

Notes

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris. Items marked with an asterisk allow for exceedance of the limits on the basis of exceptional geographical or meteorological conditions

**CANAL & RIVER TRUST
BATHING WATER QUALITY SURVEY**

LOCATION: B 16 (Blackwall Basin, eastern end)

Date: 13 March 2023

Weather: Rain

Time: 12:05

On site Observations	Units	Result	SI 1991, No.1597 or Mandatory Value 76/160/EEC	Former Guideline Value 76/160/EEC	
Water Colour	~	Clear	No abnormal change	~	
Oil Film	mg/l	N/A	No visible film	0.3	
Lasting Form/Surfactants	mg/l	N/A	No lasting foam	0.3	
Phenolic Odour/Phenols	mg/l	N/A	No specific odour	<0.005	
Floatables	~	N/A	~	absence	
On site Measurements					
pH	~	6.16	6 to 9	~	
Electrical Conductivity (ACT)	µS/cm, 25°C	906.24	~	~	
Electrical Conductivity (SP)	µS/cm, 25°C	1268.23	~	~	
Water Temperature	°C	6.28	~	~	
Ambient Temperature	°C	6	~	~	
Transparency (Secchi Depth)	M	-	1*	2	
Dissolved Oxygen	mg/l	11.83	~	~	
Dissolved Oxygen Saturation	%	91.83	~	80 to 120	
Laboratory Analysis					
Total Coliforms	cfu per 100 ml ¹	440	10,000	500	
Directive 2006/7/EC and Bathing Water Regulations 2013					
Water Quality Assessment – B16 – LJ328			Excellent	Good	Sufficient
<i>E.Coli</i>	cfu per 100 ml ¹	39	<250	250-500	500
Intestinal <i>Enterococci</i>	cfu per 100 ml ¹	11	<100	100-200	185

¹ Colony forming units (cfu) per 100 ml

Summary

On this occasion all onsite parameters complied with and the SI 1991, No.1597 or Mandatory Value 76/160/EEC. Under the Directive 2006/7/EC and Bathing water Regulations 2013, *E.Coli* and Intestinal *Enterococci* were found to be within the threshold for 'excellent'.

Conclusion

The water in this location complied with the microbial limit within the Bathing Water Regulations and would be considered **SUITABLE** for water contact sports and bathing water.

Notes

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris. Items marked with an asterisk allow for exceedance of the limits on the basis of exceptional geographical or meteorological conditions.

CANAL & RIVER TRUST
BATHING WATER QUALITY SURVEY

LOCATION: M 18 (Millwall Outer Dock, pontoons at water sports centre)

Date: 13 March 2023

Weather: Rain

Time: 12:45

On site Observations	Units	Result	SI 1991, No.1597 or Mandatory Value 76/160/EEC	Former Guideline Value 76/160/EEC	
Water Colour	~	Clear	No abnormal change	~	
Oil Film	mg/l	N/A	No visible film	0.3	
Lasting Form/Surfactants	mg/l	N/A	No lasting foam	0.3	
Phenolic Odour/Phenols	mg/l	N/A	No specific odour	<0.005	
Floatables	~	N/A	~	absence	
On site Measurements					
pH	~	6.21	6 to 9	~	
Electrical Conductivity (ACT)	µS/cm, 25°C	1176.34	~	~	
Electrical Conductivity (SP)	µS/cm, 25°C	1174.23	~	~	
Water Temperature	°C	6.35	~	~	
Ambient Temperature	°C	6	~	~	
Transparency (Secchi Depth)	M	-	1*	2	
Dissolved Oxygen	mg/l	11.12	~	~	
Dissolved Oxygen Saturation	%	95.26	~	80 to 120	
Laboratory Analysis					
Total Coliforms	cfu per 100 ml ¹	36	10,000	500	
Directive 2006/7/EC and Bathing Water Regulations 2013					
Water Quality Assessment – M18-LJ329			Excellent	Good	Sufficient
<i>E.Coli</i>	cfu per 100 ml ¹	3	<250	250-500	500
Intestinal <i>Enterococci</i>	cfu per 100 ml ¹	1	<100	100-200	185

¹ Colony forming units (cfu) per 100 ml

Summary

On this occasion all onsite parameters complied with the Former Guideline Value (76/160/EEC) and the SI 1991, No.1597 or Mandatory Value 76/160/EEC. Under the Directive 2006/7/EC and Bathing water Regulations 2013, *E.Coli* and Intestinal *Enterococci* were within the threshold for 'Excellent'.

Conclusion

The water in this location complied with the microbial limit within the Bathing Water Regulations and would be considered **SUITABLE** for water contact sports and bathing water.

Notes

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris. Items marked with an asterisk allow for exceedance of the limits on the basis of exceptional geographical or meteorological conditions.

CANAL & RIVER TRUST
BATHING WATER QUALITY SURVEY

LOCATION: M 19 (Millwall Outer Dock, east end, Clippers Quay, pontoon)

Date: 13 March 2023

Weather: Rain

Time: 12:40

On site Observations	Units	Result	SI 1991, No.1597 or Mandatory Value 76/160/EEC	Former Guideline Value 76/160/EEC	
Water Colour	~	Clear	No abnormal change	~	
Oil Film	mg/l	N/A	No visible film	0.3	
Lasting Form/Surfactants	mg/l	N/A	No lasting foam	0.3	
Phenolic Odour/Phenols	mg/l	N/A	No specific odour	<0.005	
Floatables	~	N/A	~	absence	
On site Measurements					
pH	~	6.25	6 to 9	~	
Electrical Conductivity (ACT)	µS/cm, 25°C	1163.57	~	~	
Electrical Conductivity (SP)	µS/cm, 25°C	1174.26	~	~	
Water Temperature	°C	6.25	~	~	
Ambient Temperature	°C	6	~	~	
Transparency (Secchi Depth)	M	-	1*	2	
Dissolved Oxygen	mg/l	12.74	~	~	
Dissolved Oxygen Saturation	%	90.83	~	80 to 120	
Laboratory Analysis					
Total Coliforms	cfu per 100 ml ¹	32	10,000	500	
Directive 2006/7/EC and Bathing Water Regulations 2013					
Water Quality Assessment – M19 – LJ330			Excellent	Good	Sufficient
<i>E.Coli</i>	cfu per 100 ml ¹	3	<250	250-500	500
Intestinal <i>Enterococci</i>	cfu per 100 ml ¹	20	<100	100-200	185

¹ Colony forming units (cfu) per 100 ml

Summary

On this occasion all onsite parameters complied with the Former Guideline Value (76/160/EEC) and the SI 1991, No.1597 or Mandatory Value 76/160/EEC. Under the Directive 2006/7/EC and Bathing water Regulations 2013, *E.Coli* and Intestinal *Enterococci* were within the threshold for 'Excellent'.

Conclusion

The water in this location complied with the microbial limit within the Bathing Water Regulations and would be considered **SUITABLE** for water contact sports and bathing water.

Notes

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris. Items marked with an asterisk allow for exceedance of the limits on the basis of exceptional geographical or meteorological conditions.

**CANAL & RIVER TRUST
BATHING WATER QUALITY SURVEY**

LOCATION: M 19A (Millwall Dock, corner by restaurant, Cross harbour)

Date: 13 March 2023

Weather: Rain

Time: 12:35

On site Observations	Units	Result	SI 1991, No.1597 or Mandatory Value 76/160/EEC	Former Guideline Value 76/160/EEC	
Water Colour	~	Clear	No abnormal change	~	
Oil Film	mg/l	N/A	No visible film	0.3	
Lasting Form/Surfactants	mg/l	N/A	No lasting foam	0.3	
Phenolic Odour/Phenols	mg/l	N/A	No specific odour	<0.005	
Floatingables	~	N/A	~	absence	
On site Measurements					
pH	~	6.25	6 to 9	~	
Electrical Conductivity (ACT)	µS/cm, 25°C	992.42	~	~	
Electrical Conductivity (SP)	µS/cm, 25°C	1027.25	~	~	
Water Temperature	°C	6.93	~	~	
Ambient Temperature	°C	6	~	~	
Transparency (Secchi Depth)	M	-	1*	2	
Dissolved Oxygen	mg/l	10.15	~	~	
Dissolved Oxygen Saturation	%	89.24	~	80 to 120	
Laboratory Analysis					
Total Coliforms	cfu per 100 ml ¹	51	10,000	500	
Directive 2006/7/EC and Bathing Water Regulations 2013					
Water Quality Assessment – M19 – LJ331			Excellent	Good	Sufficient
<i>E.Coli</i>	cfu per 100 ml ¹	8	<250	250-500	<i>E.Coli</i>
Intestinal <i>Enterococci</i>	cfu per 100 ml ¹	3	<100	100-200	Intestinal <i>Enterococci</i>

¹ Colony forming units (cfu) per 100 ml

Summary

On this occasion all onsite parameters complied with and the SI 1991, No.1597 or Mandatory Value 76/160/EEC. Under the Directive 2006/7/EC and Bathing water Regulations 2013, *E.Coli* and Intestinal *Enterococci* were found to be within the threshold for 'excellent'.

Conclusion

The water in this location complied with the microbial limit within the Bathing Water Regulations and would be considered **SUITABLE** for water contact sports and bathing water.

Notes

We have assumed that maintenance of the dock areas includes the routine removal of litter, leaves and other floating debris. Items marked with an asterisk allow for exceedance of the limits on the basis of exceptional geographical or meteorological conditions.

APPENDIX C
DEPTH PROFILE MONITORING DATA

	Location																										
	WI9			WI11			WI13			WI15			B16			M18			M19			M19A			M20		
Depth (m)	Temp °C	DO %	DO mg/l	Temp °C	DO %	DO mg/l	Temp °C	DO %	DO mg/l	Temp °C	DO %	DO mg/l	Temp °C	DO %	DO mg/l	Temp °C	DO %	DO mg/l	Temp °C	DO %	DO mg/l	Temp °C	DO %	DO mg/l	Temp °C	DO %	DO mg/l
0.3	5.23	90.48	12.44	6.28	91.04	12.35	6.9	99.19	10.22	6.55	90.94	12.45	6.28	91.83	11.83	6.35	95.26	11.12	6.25	90.83	12.74	6.93	89.24	10.15	7.9	95.33	10.84
1	5.21	90.45	12.43	6.24	90.96	12.37	6.83	95.34	10.22	6.53	90.92	12.63	6.24	91.81	11.62	6.33	95.35	11.11	6.22	90.63	12.63	6.36	89.14	10.11	7.62	94.99	10.86
2	5.19	90.41	12.12	6.22	90.83	12.84	6.35	95.27	10.21	6.26	90.84	11.99	6.66	91.73	11.35	6.12	94.25	10.95	6.12	90.61	12.63	6.77	89.11	10.02	7.51	94.92	10.79
3	5.11	90.33	12.11	6.13	90.63	12.22	6.32	94.63	10.05	6.22	90.62	11.42	6.01	91.63	11.21	6.01	94.22	10.92	6.01	90.35	12.45	6.11	89.01	9.63	7.41	94.73	10.73
4	5.01	90.31	11.98	6.14	90.41	12.03	6.33	92.11	10.04	6.14	90.42	11.42	5.35	91.42	10.99	5.93	93.15	10.63	5.97	90.24	12.19	5.97	88.42	9.57	7.36	94.33	10.71
5	4.99	90.14	11.95	6.11	90.31	11.84	6.12	91.04	10.04	6.12	90.31	11.25	5.86	90.01	10.96	5.55	93.11	10.44	5.73	90.19	12.11	5.87	88.34	9.37	7.32	94.31	10.69
6	4.98	90.01	11.83	6.03	90.28	11.57	6.07	90.04	10.00	6.11	90.33	11.01	5.55	90.01	10.92	5.73	92.98	10.24	5.64	90.11	11.96	5.66	88.32	9.33	7.31	94.21	10.66
7	4.98	90.01	11.71							6.03	90.01	10.95	5.34	90.01	10.83	5.34	92.91	10.11	5.55	90.08	11.85	5.25	88.23	9.35	6.99	94.11	10.42
8																5.23	91.90	10.01				5.11	88.01	9.04	6.83	94.01	10.27

DO - Dissolved oxygen

Temperature and dissolved oxygen profile against depth across the London Docklands

