

APPENDIX 10: RIVER YARE WATER QUALITY 2007



River Quality 2007

Site details:

River name	Yare
River stretch	Bawburgh Br...Earlham Bridge
Upstream grid ref.	X:615600, Y:308700
Downstream grid ref.	X:618700, Y:308300
Stretch length	5 Km
Reporting year	2007

Chemistry:

We test samples for biochemical oxygen demand (BOD), ammonia and dissolved oxygen. The results for each site are averaged and percentiles are calculated. We then assign an overall grade according to the lowest grade achieved in any of the three tests.

Grade A (very good) - These rivers have natural ecosystems and make very good salmonid and cyprinid fisheries. They may be used for any type of water abstraction including potable supply.

Grade F (bad) - These rivers have severely restricted ecosystems and are very polluted.

	Average	Standard deviation	Percentile 90	Percentile 10	Number of samples	Grade
Biochemical oxygen demand (mg/l)						N
Ammonia (mgN/l)						A
Dissolved oxygen (percentage saturation)						B

Biology:

We test the samples by comparing the macro-invertebrates (small animals that can be seen with the naked eye) with the range of species we would expect to find in the river if it was not polluted and assign a grade. We take into account natural changes that happen such as geology and flow.

Grade A (very good) - The biology is similar to that expected for an unpolluted river

Grade F (bad) - The biology is limited to a small number of species very tolerant of pollution.

	Observed	Expected	Observed/expected	Probability grade %	Season code	Grade
NTAXA	32.00	29.30	1.09	100		a
ASPT	5.28	5.12	1.03	82		a
Overall					5	a

Nitrates:

	Average	Standard deviation	Number of samples	Grade
Nitrates (mg/l)				4

Phosphates:

	Average	Standard deviation	Number of samples	Grade
Phosphates (mg/l)				5

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Author: The Environment Agency | enquiries@environment-agency.gov.uk

Last updated: 20 January 2009

River Quality 2007

Site details:

River name	Yare
River stretch	Earlham Bridge...Trowse Mill
Upstream grid ref.	X:618900, Y:308300
Downstream grid ref.	X:624400, Y:306600
Stretch length	10 Km
Reporting year	2007

Chemistry:

We test samples for biochemical oxygen demand (BOD), ammonia and dissolved oxygen. The results for each site are averaged and percentiles are calculated. We then assign an overall grade according to the lowest grade achieved in any of the three tests.

Grade A (very good) - These rivers have natural ecosystems and make very good salmonid and cyprinid fisheries. They may be used for any type of water abstraction including potable supply.

Grade F (bad) - These rivers have severely restricted ecosystems and are very polluted.

	Average	Standard deviation	Percentile 90	Percentile 10	Number of samples	Grade
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Biology:

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Grade A (very good) - The biology is similar to that expected for an unpolluted river

Grade F (bad) - The biology is limited to a small number of species very tolerant of pollution.

	Observed	Expected	Observed/expected	Probability grade %	Season code	Grade
NTAXA	33.00	29.30	1.13	100	5	a
ASPT	5.09	5.11	1.00	53		a
Overall						a

Nitrates:

	Average	Standard deviation	Number of samples	Grade
Nitrates (mg/l)				4

Phosphates:

	Average	Standard deviation	Number of samples	Grade
Phosphates (mg/l)				5

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(accessed 20.05.09)