

10 Hartlepool Water Plc

Overall Water Quality supplied by Hartlepool Water Plc in 2002

- A total of 2,641 tests were carried out on samples taken by Hartlepool Water Plc in 2002.
- Of these tests, 99.81% complied with the Regulations.



Company Information

Amount of Water Supplied:	35 MI/d
Consumers Supplied:	91,000
Areas of Supply:	Hartlepool
Water Composition:	100% from boreholes and aquifers
Treatment Works:	3
Service Reservoirs:	6
Km of Mains:	513
Water Supply Zones:	4

Water Quality at Treatment Works, in Service Reservoirs and in Water Supply Zones

To be wholesome, water must comply with the standards for the parameters set out in the Water Supply (Water Quality) Regulations 1989. In 2002, the Company carried out a total of 2,641 tests on samples taken at water treatment works, in service reservoirs and in water supply zones and of these, 99.81% complied with the relevant water quality standards set down in the Regulations. A list of the parameters, the relevant standards and their significance can be found at the beginning of this section.

Water Quality leaving Treatment works

	2002	2001	2000
Number of water treatment works HPL	3	3	3
COLIFORMS			
Total number of tests	364	364	331
– number containing coliforms	0	0	0
– % containing coliforms	0.00%	0.00%	0.00%
Treatment works with coliforms detected	0	0	0
– % of all works with coliforms detected	0.00%	0.00%	0.00%
FAECAL COLIFORMS			
Total number of tests	364	364	331
– number containing faecal coliforms	0	0	0
– % containing faecal coliforms	0.00%	0.00%	0.00%
Treatment works with faecal coliforms detected	0	0	0
– % of all works with faecal coliforms detected	0.00%	0.00%	0.00%

All of the Company's treatment works complied fully with the total and faecal coliform standards in 2002.

The Company has no sites that require regulatory monitoring for *Cryptosporidium*.

Water Quality in Service Reservoirs

	2002	2001	2000
Number of service reservoirs	6	6	6
COLIFORMS			
Total number of tests	312	312	312
– number containing coliforms	1	1	0
– % containing coliforms	0.32%	0.32%	0.00%
Service reservoirs with coliforms detected	1	1	0
Service reservoirs with coliforms detected in more than 5% of tests	0	0	0
– % of all service reservoirs with coliforms detected	0.00%	0.00%	0.00%
FAECAL COLIFORMS			
Total number of tests	312	312	312
– number containing faecal coliforms	0	0	0
– % containing faecal coliforms	0.00%	0.00%	0.00%
Service reservoirs with faecal coliforms detected	0	0	0
– % of all service reservoirs with faecal coliforms detected	0.00%	0.00%	0.00%

At all of the Company's reservoirs, coliforms were absent from at least 95% of samples. There were no failures of the faecal coliform standard.

Water Quality in Water Supply Zones

The table below shows the data for the key parameters and any other parameters where there was a breach of the standard. All other parameters were fully compliant.

Parameter	Total number of tests	Tests not meeting the prescribed concentration or value		Number of failures covered by Undertakings	Number of zones not complying with the standards		
		No	%		2002	2001	2000
Coliforms	240	0	0.00	0	0	0	0
Faecal coliforms	240	0	0.00	0	0	0	0
Colour	16	0	0.00	0	0	0	0
Turbidity	16	0	0.00	0	0	0	0
Odour	8	0	0.00	0	0	0	0
Taste	8	0	0.00	0	0	0	0
Hydrogen ion	16	0	0.00	0	0	0	0
Nitrate	16	0	0.00	0	0	0	0
Nitrite	16	0	0.00	0	0	0	0
Aluminium	16	0	0.00	0	0	0	0
Iron	120	0	0.00	0	0	0	0
Manganese	120	0	0.00	0	0	0	0
Lead	7	0	0.00	0	0	0	0
PAH	22	4	18.18	0	2	1	0
Trihalomethanes	4	0	0.00	0	0	0	0
Total pesticides	4	0	0.00	0	0	0	0
Other pesticides	76	0	0.00	0	0	0	0
All others	344	0	0.00	0	0	0	0
TOTAL	1,289	4	0.31%	0			

4 zones in 2000, 2001 and 2002

The New Regulations

In 2002, the Company carried out monitoring for the six new parametric values set down in the new Water Supply (Water Quality) Regulations 2000. These Regulations come into force on 25 December 2003. The results are shown in the table below.

Parameter	Total number of tests	New standard	Tests not meeting the new standard
Benzene	10	1.0 µg/l	0
Bromate	10	10.0 µg/l	1
1,2 dichloroethane	10	3.0 µg/l	0
Nitrite (ex-water treatment works)	10	0.1 mg/l	0
<i>Clostridium perfringens</i>	0	0/100 ml	-
Enterococci	14	0/100 ml	0

Compliance data for 2002 has also been analysed against the revised standards and the results are shown in the following table.

Parameter	Total number of tests	Current standard	Number of tests not meeting current standard	Revised standard	Number of tests not meeting revised standard
Antimony	4	10.0 µg/l	0	5.0 µg/l	0
Arsenic	4	50.0 µg/l	0	10.0 µg/l	0
Boron	4	2.0 mg/l	0	1.0 mg/l	0
Copper	4	3.0 mg/l	0	2.0 mg/l	0
Lead	7	50.0 µg/l	0	25.0 µg/l ¹ 10.0 µg/l ²	2 2
Nickel	4	50.0 µg/l	0	20.0 µg/l	0
Nitrite (at consumers taps)	16	0.1 mg/l	0	0.5 mg/l	0
PAH	22	0.2 µg/l	4	0.1 µg/l	0
Tetrachloroethene	4	30.0 µg/l	0	} 10.0 µg/l	0
Trichloroethene	4	10.0 µg/l	0		

Details of the new and revised standards, and the reasons for the revisions where applicable, can be found in chapter J “New Regulations and Associated Programmes of Work”.

- 1 From 25.12.03
2 From 25.12.13

Company Audit and Inspection

The Company was inspected or audited by the Inspectorate on a number of occasions during 2002. Where relevant, report summaries are available in the 'Business and Technical' section of the Inspectorate's web site under 'Audit and Inspection'.

Audit or Inspection	Date
Audit of response to selected consumer complaints	September 2002
Audit trails of three test results	September 2002
Inspection of one water treatment works and four service reservoirs	November 2002

No recommendations were made.

Incidents

The Inspectorate regarded the single event notified during 2002 by the Company as an incident. For further details on the classification of incidents, see chapter C "Events affecting Water Quality" in Part 3.

The incident has been assessed by the Inspectorate. It was of short duration and the Company has taken appropriate remedial action. No recommendations were made.

Nature of incident	No. of incidents	Assessment completed affected	Area affected	Population potentially	
Microbiological contamination of supplies	1	Yes	King Oswy (February)	2,500	

Enforcement Action

No enforcement action was considered for the Company as a result of the Inspectorate's activities during 2002.

Undertakings and other Improvement Programmes

Water treatment works and service reservoirs

No improvement programmes were due for completion during 2002.

Distribution

The Company had completed its distribution system undertaking by December 2001.

Lead

The Company has a Regulation 41 programme of work to meet the revised standard for lead set down in the new Water Supply (Water Quality) Regulations 2000, which will come into force on 25 December 2003. Progress with the delivery of the programme is monitored by the Inspectorate and has been satisfactory.