

# Dee Valley Water

## Water Quality Information 2009

### Regulation 36 Report

Number of Water Treatment Works	6
Number of Supply Points	6
Number of Service Reservoirs	31
Number of Water Supply Zones	18
Total Number of samples taken	29772

# Water Treatment Works

Number of samples taken from Water Treatment Works

8736

## Schedule 1 Parameters

Parameter	Number of Samples	Number of Samples >PCV	%>PCV	Number of samples>Auth dep	%>Auth dep
NITRITE	405	0	0	-	-
TOTAL COLIFORMS	1189	0	0	-	-
E.COLI	1189	0	0	-	-

Number of Water Treatment works where samples exceeded PCV	0
Percentage of Water Treatment works where samples exceeded PCV	0
Number of Water Treatment works where samples exceeded authorised departure	0
Percentage of Water Treatment works where samples exceeded Authorised departure	0

## Indicator Parameters

Parameter	Number of Samples	Number of Samples >Specification	%>Specification
TURBIDITY AT WORKS	1189	3	0.25
COLONY COUNTS(22C)	1189	16	1.35
FREE CHLORINE	1189	0	0
TOTAL CHLORINE	1189	0	0
COLONY COUNTS(37C)	1189	3	0.25

Number of Water Treatment Works where samples exceeded Specification	5
Percentage of Water Treatment works where samples exceeded Specification	83.33

# Service Reservoirs

Number of samples taken from Service Reservoirs

9536

## Schedule 1 Parameters

Parameter	Number of Samples	Number of Samples >PCV	%>PCV	Number of samples>Auth dep	%>Auth dep
TOTAL COLIFORMS	1589	5	0.31	-	-
E.COLI	1589	1	0.06	-	-

Number of Service Reservoirs where samples exceeded PCV	5
Percentage of Service Reservoirs where samples exceeded PCV	16.13
Number of Service Reservoirs where samples exceeded authorised departure	0
Percentage of Service Reservoirs where samples exceeded Authorised departure	0

## Indicator Parameters

Parameter	Number of Samples	Number of Samples >Specification	%>Specification
COLONY COUNTS(22C)	1589	24	1.51
FREE CHLORINE	1590	0	0
TOTAL CHLORINE	1590	0	0
COLONY COUNTS(37C)	1589	8	0.5

Number of Service Reservoirs where samples exceeded Specification	13
Percentage of Service Reservoirs where samples exceeded Specification	41.94

## Supply Points

Number of samples taken from Supply Points

2290

### Schedule 1 Parameters

Parameter	Number of Samples	Number of Samples >PCV	%>PCV	Number of samples>Auth dep	%>Auth dep
FLUORIDE	48	0	0	-	-
TOTAL CYANIDE	48	0	0	-	-
MERCURY	48	0	0	-	-
TOTAL PESTICIDE	48	0	0	-	-
BORON	48	0	0	-	-
TETRACHLOROMETHANE	48	0	0	-	-
SUM OF TETR AND TRICH	48	0	0	-	-
1,2 DICHLOROETHANE	48	0	0	-	-
BENZENE	48	0	0	-	-
BROMATE	48	0	0	-	-
ALDRIN	49	0	0	-	-
ATRAZINE	48	0	0	-	-
BROMOXYNIL	48	0	0	-	-
2,4-D	48	0	0	-	-
DIAZINON	48	0	0	-	-
DIELDRIN	48	0	0	-	-
DIURON	48	0	0	-	-
FLUROXYPR	48	0	0	-	-
HEPTACHLOR	48	0	0	-	-
HEPTACHLOR EPOXIDE	48	0	0	-	-
ISOPROTURON	48	0	0	-	-
LINURON	48	0	0	-	-
MECOPROP	48	0	0	-	-
MCPA	48	0	0	-	-
PROPETAMPHOS	49	0	0	-	-
SIMAZINE	48	0	0	-	-
2,4-DB	48	0	0	-	-
TRICLOPYR	48	0	0	-	-
CARBENDAZIM	48	0	0	-	-
CHLORMEQUAT	48	0	0	-	-

Number of Supply Points where samples exceeded PCV	0
Percentage of Supply Points where samples exceeded PCV	0
Number of Supply Points where samples exceeded authorised departure	0
Percentage of Supply Points where samples exceeded Authorised departure	0

### Indicator Parameters

Parameter	Number of Samples	Number of Samples >Specification	%>Specification
SULPHATE	48	0	0
TOTAL ORGANIC CARBON	48	0	0
CLOSTRIDIUM PERFRINGENS	304	0	0
CONDUCTIVITY	304	0	0
CHLORIDE	48	0	0
RADIO.ALPHA	48	0	0
RADIO.BETA	48	0	0

Number of Supply Points where samples exceeded Specification	0
Percentage of Supply Points where samples exceeded Specification	0

# Water Supply Zones

Number of samples taken from Zones

9210

Schedule 1 Parameters

Parameter	Units	PCV	Number of samples	Number of samples->PCV	% PCV	Number of samples->Auth dep	%>Auth dep	Min	Mean	Max
COLOUR	mg/l Pt/Co	20	324	0	0	-	-	<0.2	1.7	4.1
TURBIDITY	N.T.U.	4	324	0	0	-	-	<0.04	0.16	2.04
ODOUR (QUANTITATIVE)	DIL. NO.	0	324	0	0	-	-	0	0	0
TASTE (QUANTITATIVE)	DIL. NO.	0	324	0	0	-	-	0	0	0
SODIUM	mg Na/l	200	132	0	0	-	-	4.6	13.12	30.9
NITRATE	mg NO3/l	50	208	0	0	-	-	<0.45	5.71	13.73
NITRITE IN ZONES	mg NO2/l	0.5	208	0	0	-	-	<0.000	0.033	0.306
NO3 NO2 CALCULATION		1	208	0	0	-	-	0	0.12	0.3
ALUMINIUM	ug Al/l	200	324	0	0	-	-	<2.6	15.6	176
IRON	ug Fe/l	200	324	1	0.31	-	-	<2	21	289
MANGANESE	ug Mn/l	50	324	0	0	-	-	<1	4	26
COPPER	mg Cu/l	2	132	0	0	-	-	<0.000	0.023	0.413
FLUORIDE	mg F/l	1.5	4	0	0	-	-	<0.010	<0.025	<0.030
ARSENIC	ug As/l	10	132	0	0	-	-	<0.2	0.5	6.9
CADMIUM	ug Cd/l	5	132	0	0	-	-	<0.02	0.05	0.17
TOTAL CYANIDE	ug CNl	50	4	0	0	-	-	<0.7	<0.8	<1.2
CHROMIUM	ug Cr/l	50	132	0	0	-	-	<0.2	0.5	2.5
MERCURY	ug Hg/l	1	4	0	0	-	-	<0.1	<0.1	<0.1
NICKEL	ug Ni/l	20	132	0	0	-	-	<0.3	1.1	15.4
LEAD	ug Pb/l	25	132	0	0	-	-	<0.2	1	22.4
ANTIMONY	ug Sb/l	5	132	0	0	-	-	<0.1	0.1	0.4
SELENIUM	ug Se/l	10	132	0	0	-	-	<0.3	0.4	1
TOTAL PESTICIDE	ug/l	0.5	4	0	0	-	-	0	0	0
P.A.H (TOTAL)	ug/l	0.1	135	0	0	-	-	0	0	0
E.COLI	CFU/100ml	0	768	0	0	-	-	N/A	N/A	N/A
ENTEROCOCCI	CFU/100ml	0	132	0	0	-	-	N/A	N/A	N/A
BORON	mg B/l	1	4	0	0	-	-	<0.000	0.006	0.012
BENZO (a) PYRENE	ug/l	0.01	137	0	0	-	-	<0.0000	<0.0015	<0.0020
TETRACHLOROMETHANE	ug/l	3	4	0	0	-	-	<0.04	0.03	0.04
SUM OF TETR AND TRICH	ug/l	10	4	0	0	-	-	0	0	0
TOTAL TRIHALOMETHANES	ug/l	100	132	0	0	-	-	0.81	28.22	55.2
1,2 DICHLOROETHANE	ug/l	3	4	0	0	-	-	<0.08	<0.10	<0.11
BENZENE	ug/l	1	4	0	0	-	-	<0.04	<0.04	<0.04
BROMATE	ug BrO3/l	10	76	0	0	-	-	<0.3	0.5	0.7
ALDRIN	ug/l	0.03	4	0	0	-	-	<0.000	<0.002	<0.002
ATRAZINE	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010

BROMOXYNIL	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
2,4-D	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
DIAZINON	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
DIELDRIN	ug/l	0.03	4	0	0	-	-	<0.000	<0.002	<0.003
DIURON	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
FLUROXYPR	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
HEPTACHLOR	ug/l	0.03	4	0	0	-	-	<0.000	<0.001	<0.001
HEPTACHLOR EPOXIDE	ug/l	0.03	4	0	0	-	-	<0.000	<0.002	<0.003
ISOPROTURON	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
LINURON	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
MECOPROP	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
MCPA	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
PROPETAMPHOS	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
SIMAZINE	ug/l	0.1	4	0	0	-	-	<0.010	<0.012	<0.016
2,4-DB	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
TRICLOPYR	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
CARBENDAZIM	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010
CHLORMEQUAT	ug/l	0.1	4	0	0	-	-	<0.010	<0.010	<0.010

Number of Water Supply Zones where samples exceeded PCV	1
Percentage of Water Supply Zones where samples exceeded PCV	5.56
Number of Water Supply Zones where samples exceeded authorised departure	0
Percentage of Water Supply Zones where samples exceeded Authorised departure	0

### Indicator Parameters

Parameter	Units	Specification	Number of Samples	Number of Samples>Specification	% Specification	Min	Mean	Max
HYDROGEN ION	pH value	9.5	324	1	0.31	6.43	7.33	8.47
SULPHATE	mg SO4/l	250	4	0	0	32	36.5	41
AMMONIUM	mg NH4/l	0.5	324	0	0	<0.006	0.03	0.2
TOTAL ORGANIC CARBON	mgC/l	50	4	0	0	1.5	2.1	2.4
TOTAL COLIFORMS	CFU/100ml	0	768	4	0.52	N/A	N/A	N/A
CLOSTRIDIUM PERFRINGENS	CFU/100ml	0	4	0	0	N/A	N/A	N/A
COLONY COUNTS(22C)	CFU/1ml	50	324	0	0	0	4	287
FREE CHLORINE	mg/l	10	771	0	0	<0.02	0.13	0.65
TOTAL CHLORINE	mg/l	10	771	0	0	<0.02	0.19	0.7
COLONY COUNTS(37C)	CFU/1ml	10	324	6	1.85	0	4	>300
CONDUCTIVITY	uS/cm	2500	4	0	0	130	151.5	204
CHLORIDE	mg Cl/l	250	4	0	0	11	13.3	15.2
RADIO.ALPHA	Bq/l	0.1	4	0	0	<0.012	0.014	0.02
RADIO.BETA	Bq/l	1	4	0	0	0.1	0.13	0.169

Number of Water Supply Zones where samples exceeded Specification	8
Percentage of Water Supply Zones where samples exceeded Specification	44.44