

**THAMES WATER UTILITIES**  
**WATER QUALITY REPORT - 2014 DATA**

<b>Water Supply Zone:</b> NLW15 GUNNERSBURY			<b>Zone No.:</b> 40					
			<b>Population:</b> 44400					
<b>Time Period: 01/01/2014 to 31/12/2014</b>			<b>Concentration or Value</b>			<b>No. of Samples</b>		<b>% of samples contravening PCV</b>
<b>Date extracted: 10/04/2015</b>			<b>(all samples)</b>			<b>Total</b>	<b>Contra- vening</b>	
<b>Parameter</b>	<b>Units</b>	<b>PCV</b>	<b>Min.</b>	<b>Mean</b>	<b>Max.</b>	<b>Total</b>	<b>Contra- vening</b>	
Coliform bacteria	no./100ml	0	0	0.025	2	120	2	1.7
<i>E. coli</i>	no./100ml	0	0	0	0	120	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	1131	0	0
Colony count 22°C	cfu/ml	-	0	5.944	144	36	0	0
Colony count 37°C	cfu/ml	-	0	4.378	108	37	0	0
Residual Disinfectant	mg/l	-	0.11	0.572	0.85	120	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	0.8	1.447	3.4	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.778	8.1	36	0	0
Turbidity	FTU	4	<0.060	0.07	0.1	36	0	0
Conductivity at 20°C	uS/cm	2500	543	574.111	608	36	0	0
Ammonium as NH <sub>4</sub>	mg/l	0.5	0.1	0.161	0.2	36	0	0
Chloride as Cl	mg/l	250	35.9	41.446	47.03	8	0	0
Sodium as Na	mg/l	200	24	27.913	34.8	8	0	0
Sulphate as SO <sub>4</sub>	mg/l	250	42.6	45.075	50.6	8	0	0
Nitrate as NO <sub>3</sub>	mg/l	50	19.3	23.625	27.3	36	0	0
Nitrite as NO <sub>2</sub>	mg/l	0.5	<0.010	0.013	0.05	36	0	0
Nitrate/Nitrite calculation	mg/l	1	0.39	0.475	0.55	36	0	0
Total Organic Carbon as C	mg/l	-	1.4	2.177	3.7	96	0	0
Total Hardness as CaCO <sub>3</sub>	mg/l	N/A	243	248	252	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	18	0	0
Taste (quantatative)	dilution no.	0	0	0	0	18	0	0
Iron as Fe	ug/l	200	<2.000	2.892	11.6	36	0	0
Manganese as Mn	ug/l	50	<0.200	<0.750	<0.800	36	0	0
Aluminium as Al	ug/l	200	1.9	5.644	9.9	36	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.8	1.1	1.3	8	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.100	<0.100	8	0	0
Chromium as Cr	ug/l	50	<0.900	0.95	1.3	8	0	0
Copper as Cu	mg/l	2	<0.004	0.023	0.076	8	0	0
Lead as Pb	ug/l	10	<0.200	3.1	7.4	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.088	<0.120	96	0	0
Nickel as Ni	ug/l	20	<1.300	<1.350	<1.600	8	0	0
Fluoride as F	mg/l	1.5	0.131	0.149	0.192	8	0	0
Selenium as Se	ug/l	10	<0.800	<0.800	<0.800	8	0	0
Boron as B	mg/l	1	0.047	0.053	0.056	8	0	0
Bromate as BrO <sub>3</sub>	ug/l	10	<0.700	0.772	1.8	96	0	0
Cyanide as CN	ug/l	50	<0.700	0.713	1.1	96	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0	8	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	8	0	0
Trihalomethanes	ug/l	100	11	15.8	20	8	0	0
Tetra- & Trichloroethene calc	ug/l	10	0	0	0	8	0	0
Tetrachloromethane	ug/l	3	<0.200	<0.200	<0.200	8	0	0
1,2 dichloroethane	ug/l	3	<0.200	<0.263	<0.300	8	0	0

NOTE: PCV = Prescribed Concentration or Value

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<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b> (all samples)			<b>No. of Samples</b>		
<b>Date extracted:</b> 10/04/2015								
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Benzene	ug/l	1	<0.100	<0.100	<0.100	8	0	0
Atrazine	ug/l	0.1	<0.005	<0.005	<0.005	97	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	96	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	96	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	97	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	97	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	96	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	96	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	96	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	96	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	97	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	96	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	97	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	96	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	97	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	96	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	96	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	96	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	96	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	96	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	96	0	0
Propyzamide	ug/l	0.1	0.004	0.008	0.033	97	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	97	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	96	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	96	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	96	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	96	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	97	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	96	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	96	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	96	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	96	0	0
Carbendazim	ug/l	0.1	<0.002	0.002	0.008	97	0	0
Metaldehyde	ug/l	0.1	0.018	0.039	0.083	96	0	0
Metazachlor	ug/l	0.1	0.002	0.003	0.008	96	0	0
Quinmerac	ug/l	0.1	<0.004	0.006	0.017	97	0	0
Total Pesticides	ug/l	0.5	0	0.05	0.134	101	0	0

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<b>Water Supply Zone:</b>	NLW15	GUNNERSBURY	<b>Zone No.:</b>	40
			<b>Population:</b>	44400
<b>Time Period:</b> 01/01/2014 to 31/12/2014				
<b>Date extracted:</b> 10/04/2015				

**Commentary on Water Quality:**

Very good water quality, however two infringements to report for coliforms. Our investigations showed one infringement was transitory and the other was due to customer plumbing. Neither were indicative of the quality of water supplied to this zone.

**NOTES:**

For some parameters, monitoring occurs at the supplying Water Treatment Works rather than the Water Supply Zone