

## Test Report

**Report of:** Drinking Water [European Communities (Drinking Water)(No.2) Regulations 2007 (S.I. No.278 of 2007)].

**Report to:** Monaghan County Council

**Report date:** 11/06/15

**Location sampled:** Lough Egish R.W.S.S

Date collected: 20/04/2015

Date received: 20/04/2015

Analysis group: DW AUDIT

Comments:

			<b>Laboratory Ref:</b>	1511177
			<b>Type of sample:</b>	Drinking Water
			<b>Sampling point:</b>	Murphy, Lakeview, Castleblaney
			<b>Sampled by:</b>	Dermot McCague
			<b>Time Sampled:</b>	nt
			<b>Start/End - Dates of Analysis:</b>	21-04-15/05-06-15
			<b>Grid Ref:</b>	282791 320110
			<b>Status of results:</b>	<b>Final</b>
Parameter	Units	Limits		
F **	Residual Chlorine	mg/l Cl		0.36
F **	Taste			ATC
F **	Odour			nd
	pH	pH	> 6.5 And < 9.5	7.9
	True Colour	Hazen		<5
	Conductivity @25°C	µS/cm @ 25	< 2760	278
	Conductivity @20°C	µS/cm @ 20	< 2500	251
**	Coliform Bacteria	No/100 ml	0	0
**	E. Coli	No/100 ml	0	0
**	Clostridia Perfringens	No/100ml	0	0
**	Heterotrophic plate count @ 22°C	No/ml		0
**	Enterococci	No/100ml	0	0
	Chloride	mg/l Cl	< 250	20
	Ammonia	mg/l NH4	< 0.3	<0.026
	Nitrite (as NO2)	mg/l NO2	< 0.49	<0.0132
	Ortho-phosphate (as P2O5)	µg/l P2O5	< 5000	<23
	Total Oxidised Nitrogen (as NO3)	mg/l NO3	< 50	1.9
	Nitrate (as NO3)	mg/l NO3	< 50	1.9
**	Bromate	ug/l	< 10	0.7
**	Cyanide	mg/l CN	< 0.05	<0.01
	Fluoride	mg/l F	< 0.8	0.67
	Total Hardness (as Ca)	mg/l Ca		25
	Sulphate	mg/l SO4	< 250	42
**	Total Organic Carbon	mg/l C		4.0
	Turbidity	NTU		<0.50
	Turbidity - Works	NTU		<0.50

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Parameter	Units	Limits	
Benzene	ug/l	< 1	<0.60
** Benzo(a)pyrene	ug/l	< 0.01	<0.001
** Total PAH	ug/l	< 0.1	<0.001
** Total Pesticides	ug/l	< 0.5	0.067
1,2-Dichloroethane	ug/l	< 3	<0.60
Trichloroethene	ug/l		<0.20
Tetrachloroethene	ug/l		<0.70
Tetrachloroethane+Trichloroethene	µg/l	< 10	<0.7
Bromodichloromethane	µg/l		22.8
Bromoform	µg/l		<0.6
Chloroform	µg/l		69.0
Dibromochloromethane	µg/l		5.5
Total Trihalomethanes	µg/l	< 100	97.5
Boron	µg/l	< 1000	<10.0
Sodium	mg/l	< 200	30
Aluminium	µg/l	< 200	33
Chromium	µg/l	< 50	<1.0
Iron	µg/l	< 200	<10.0
Manganese	µg/l	< 50	6.9
Nickel	µg/l	< 20	1.6
Copper	mg/l	< 2	0.01
Arsenic	µg/l	< 10	<1.0
Selenium	µg/l	< 10	<1.0
Cadmium	µg/l	< 5	<0.020
Lead	µg/l	< 10	<1.0
Antimony	µg/l	< 5	<1.0
Mercury	µg/l		<0.020

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| 1) Results highlighted and in bold exceed specified limits.  | 8) tntc "Too numerous to count"  |
| 2) Uncertainty of measurement values have been assigned for each parameter and those for accredited tests are provided in a separate document.   | 9) fqc Indicates that the testing did not meet the quality control criteria as required by INAB and therefore the result cannot be reported. |
| 3) All metals analysed in EPA Richview Laboratory.<br>All Total Nitrogens analysed in EPA Kilkenny Laboratory.<br>PAH's, Bromates, Phenols, Pesticides, Atrazine, Simazine and Surfactants are sub-contracted to either Alcontrol Laboratories or TMS Environment Ltd. | 10) F "Field measured parameters"  |
| 4) nm "Not measured"   | 11) "***" indicates paramters/results produced from non-accredited analytical methods.   |
| 5) nd "None detected"  | 12) Test Reports relate only to the samples tested and as described on report form.  |
| 6) nt "No time" - Time not recorded  | 13) Test Reports shall not be reproduced, except in full, without the consent of the EPA.  |
| 7) nr "Not reported"   | 14) The laboratory is accredited by the INAB only for the parameters listed in the scope of Accreditation.                                   |
|  | 15) Coliform Bacteria = Total Coliforms; E.Coli = Faecal Coliforms.  |
|  | 16) ATC = Acceptable To Consumers  |

Signed: 

Date: 11/Jun/2015

Ray Smith  
Regional Manager,  
EPA  
Monaghan