

## Test Report

Report of: Surface Water Analysis  
 Report to: Monaghan County Council  
 Report date: 20/02/15

### Location sampled: Lough Ross

Date collected: 09/02/2015 Date received: 09/02/2015  
 Comments: Individual PAH results available on supplementary report.

<b>Laboratory Ref:</b>		1510368
<b>Type of sample:</b>		River
<b>Sampling point:</b>		Lough Ross
<b>Sampled by:</b>		P. Mallen
<b>Time Sampled:</b>		15:00
<b>Start/End - Dates of Analysis:</b>		09-02-15/20-02-15
<b>Status of results:</b>		<b>Final</b>
Parameter	Units	
F ** Dissolved Oxygen (as %Sat)	% Saturati	94
F ** Dissolved Oxygen (as mg/l)	mg/l Sat	12.2
F ** Temperature	°C	4.4
BOD	mg/l O2	<1.0
pH	pH	7.6
Conductivity @25°C	µS/cm @ 25	201
True Colour	Hazen	68
Chloride	mg/l Cl	17
Ammonia	mg/l N	<0.020
Nitrite (as N)	mg/l N	0.006
Nitrate (as N)	mg/l N	1.2
ortho-Phosphate	mg/l P	0.032
Total Oxidised Nitrogen (as N)	mg/l N	1.2
Alkalinity-total (as CaCO3)	mg/l CaCO3	51
Total Hardness (as CaCO3)	mg/l CaCO3	71
** 1,1-Dichloroethene	ug/l	<0.1
** Dichloromethane	ug/l	<0.1
** t-1,2-Dichloroethene	ug/l	<0.1
** 1,1-Dichloroethane	ug/l	<0.1
** 2,2-Dichloropropane	ug/l	<0.1
** c-1,2-Dichloroethene	ug/l	<0.1
** Bromochloromethane	ug/l	<0.1

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<b>Parameter</b>	<b>Units</b>		
** Chloroform	ug/l	<0.1	
** 1,1,1-Trichloroethane	ug/l	<0.1	
** Carbon Tetrachloride	ug/l	<0.1	
** 1,1-Dichloropropene	ug/l	<0.1	
** Benzene	ug/l	<0.1	
** 1,2-Dichloroethane	ug/l	<0.1	
** Trichloroethene	ug/l	<0.1	
** 1,2-Dichloropropane	ug/l	<0.1	
** Dibromomethane	ug/l	<0.1	
** Bromodichloromethane	ug/l	<0.1	
** c-1,3-Dichloropropene	ug/l	<0.1	
** Toluene	ug/l	<0.1	
** t-1,3-Dichloropropene	ug/l	<0.1	
** 1,1,2-Trichloroethane	ug/l	<0.1	
** Tetrachloroethene	ug/l	<0.1	
** 1,3-Dichloropropane	ug/l	<0.1	
** Dibromochloromethane	ug/l	<0.1	
** 1,2-Dibromoethane	ug/l	<0.1	
** Chlorobenzene	ug/l	<0.1	
** Ethylbenzene	ug/l	<0.1	
** m,p-Xylene	ug/l	<0.1	
** o-Xylene	ug/l	<0.1	
** Styrene	ug/l	<0.1	
** Bromoform	ug/l	<0.1	
** Isopropylbenzene	ug/l	<0.1	
** Bromobenzene	ug/l	<0.1	
** 1,1,2,2-Tetrachloroethane	ug/l	<0.1	
** 1,2,3-Trichloropropane	ug/l	<0.1	
** n-Propylbenzene	ug/l	<0.1	
** 2-Chlorotoluene	ug/l	<0.1	
** 1,1,1,2-Tetrachloroethane	ug/l	<0.1	
** 4-Chlorotoluene	ug/l	<0.1	
** 1,3,5-Trimethylbenzene	ug/l	<0.1	
** tert-Butylbenzene	ug/l	<0.1	
** 1,2,4-Trimethylbenzene	ug/l	<0.1	
** sec-Butylbenzene	ug/l	<0.1	
** 1,3-Dichlorobenzene	ug/l	<0.1	

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Parameter	Units	
** 4-Isopropyltoluene	ug/l	<0.1
** 1,4-Dichlorobenzene	ug/l	<0.1
** 1,2-Dichlorobenzene	ug/l	<0.1
** n-Butylbenzene	ug/l	<0.1
** 1,2-Dibromo-3-Chloropropane	ug/l	<0.1
** 1,2,4-Trichlorobenzene	ug/l	<0.1
** Hexachlorobutadiene	ug/l	<0.1
** Naphthalene	ug/l	<0.1
** 1,2,3-Trichlorobenzene	ug/l	<0.1
** Vinyl Chloride	ug/l	<0.1
** Total PAH	ug/l	<0.344

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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. All Total Nitrogens analysed in EPA Kilkenny Laboratory. 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: \_\_\_\_\_

20/Feb/2015

Ray Smith  
Regional Manager,  
EPA  
Monaghan