

## Test Report

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

**Location sampled: FANE RIVER**

Date collected: 09/02/2015 Date received: 09/02/2015

Comments: Individual PAH results available on supplementary report.

			Laboratory Ref:	1510370	1510371	1510372
			Type of sample:	River	River	River
			Sampling point:	0300	0400	0500
			Sampled by:	P. Mallen	P. Mallen	P. Mallen
			Time Sampled:	11:55	12:05	12:30
			Start/End - Dates of Analysis:	09-02-15/20-02-15	09-02-15/20-02-15	09-02-15/20-02-15
			Status of results:	<b>Final</b>	<b>Final</b>	<b>Final</b>
Parameter	Units	Limits				
F** Dissolved Oxygen (as %Sat)	% Saturati		92	92	99	
F** Temperature	°C		3.2	3.3	3.6	
BOD	mg/l O2		<1.0	<1.0	<1.0	
pH	pH		7.7	7.7	7.8	
Conductivity @25°C	µS/cm @ 25		201	200	204	
True Colour	Hazen		58	56	54	
Chloride	mg/l Cl		18	17	17	
Ammonia	mg/l N		<0.020	<0.020	<0.020	
Nitrite (as N)	mg/l N		0.007	0.004	0.004	
Nitrate (as N)	mg/l N		1.3	1.3	1.3	
ortho-Phosphate	mg/l P		0.031	0.032	0.034	
Total Oxidised Nitrogen (as N)	mg/l N		1.3	1.3	1.3	
Total Hardness (as CaCO3)	mg/l CaCO3		70	70	72	
Alkalinity-total (as CaCO3)	mg/l CaCO3		55	50	55	
** 1,1-Dichloroethene	ug/l		<0.1	<0.1	<0.1	
** Dichloromethane	ug/l		<0.1	<0.1	<0.1	
** t-1,2-Dichloroethene	ug/l		<0.1	<0.1	<0.1	
** 1,1-Dichloroethane	ug/l		<0.1	<0.1	<0.1	
** 2,2-Dichloropropane	ug/l		<0.1	<0.1	<0.1	
** c-1,2-Dichloroethene	ug/l		<0.1	<0.1	<0.1	
** Bromochloromethane	ug/l		<0.1	<0.1	<0.1	
** Chloroform	ug/l		<0.1	<0.1	<0.1	

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

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			Status of results:	<b>Final</b>	<b>Final</b>	<b>Final</b>
Parameter	Units	Limits				
** 1,4-Dichlorobenzene	ug/l		<0.1	<0.1	<0.1	<0.1
** 1,2-Dichlorobenzene	ug/l		<0.1	<0.1	<0.1	<0.1
** n-Butylbenzene	ug/l		<0.1	<0.1	<0.1	<0.1
** 1,2-Dibromo-3-Chloropropane	ug/l		<0.1	<0.1	<0.1	<0.1
** 1,2,4-Trichlorobenzene	ug/l		<0.1	<0.1	<0.1	<0.1
** Hexachlorobutadiene	ug/l		<0.1	<0.1	<0.1	<0.1
** Naphthalene	ug/l		<0.1	<0.1	<0.1	<0.1
** 1,2,3-Trichlorobenzene	ug/l		<0.1	<0.1	<0.1	<0.1
** Vinyl Chloride	ug/l		<0.1	<0.1	<0.1	<0.1
** Total PAH	ug/l		<0.344	<0.344	<0.344	<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.<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: Ray Smith Date: 20/Feb/2015

Ray Smith  
Regional Manager,  
EPA  
Monaghan