

## 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:** Monaghan P.W.S

Date collected: 20/04/2015

Date received: 20/04/2015

Analysis group: DW AUDIT

Comments:

|           |                                  |            | <b>Laboratory Ref:</b>                | 1511174                 |
|-----------|----------------------------------|------------|---------------------------------------|-------------------------|
|           |                                  |            | <b>Type of sample:</b>                | Drinking Water          |
|           |                                  |            | <b>Sampling point:</b>                | 117 Riverside, Monaghan |
|           |                                  |            | <b>Sampled by:</b>                    | John Quinn              |
|           |                                  |            | <b>Time Sampled:</b>                  | nt                      |
|           |                                  |            | <b>Start/End - Dates of Analysis:</b> | 21-04-15/05-06-15       |
|           |                                  |            | <b>Grid Ref:</b>                      | 267194 334603           |
|           |                                  |            | <b>Status of results:</b>             | <b>Final</b>            |
| Parameter | Units                            | Limits     |                                       |                         |
| F<br>**   | Residual Chlorine                | mg/l Cl    |                                       | 0.12                    |
| F<br>**   | Taste                            |            |                                       | ATC                     |
| F<br>**   | Odour                            |            |                                       | nd                      |
|           | pH                               | pH         | > 6.5 And < 9.5                       | 7.5                     |
|           | True Colour                      | Hazen      |                                       | <5                      |
|           | Conductivity @25°C               | µS/cm @ 25 | < 2760                                | 428                     |
|           | Conductivity @20°C               | µS/cm @ 20 | < 2500                                | 387                     |
| **        | 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                                 | 19                      |
|           | 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                                  | 0.98                    |
|           | Nitrate (as NO3)                 | mg/l NO3   | < 50                                  | 0.96                    |
| **        | Bromate                          | ug/l       | < 10                                  | <0.1                    |
| **        | Cyanide                          | mg/l CN    | < 0.05                                | <0.01                   |
|           | Fluoride                         | mg/l F     | < 0.8                                 | 0.55                    |
|           | Total Hardness (as Ca)           | mg/l Ca    |                                       | 71                      |
|           | Sulphate                         | mg/l SO4   | < 250                                 | 40                      |
| **        | Total Organic Carbon             | mg/l C     |                                       | 3.7                     |
|           | Turbidity                        | NTU        |                                       | <0.50                   |
|           | Turbidity - Works                | NTU        |                                       | <0.50                   |

|                                       |                         |
|---------------------------------------|-------------------------|
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| <b>Sampled by:</b>                    | John Quinn              |
| <b>Time Sampled:</b>                  | nt                      |
| <b>Start/End - Dates of Analysis:</b> | 21-04-15/05-06-15       |
| <b>Grid Ref:</b>                      | 267194 334603           |
| <b>Status of results:</b>             | <b>Final</b>            |

| Parameter                         | Units | Limits |        |
|-----------------------------------|-------|--------|--------|
| Benzene                           | ug/l  | < 1    | <0.60  |
| ** Benzo(a)pyrene                 | ug/l  | < 0.01 | <0.001 |
| ** Total PAH                      | ug/l  | < 0.1  | 0.002  |
| ** Total Pesticides               | ug/l  | < 0.5  | 0.012  |
| 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  |        | 14.8   |
| Bromoform                         | µg/l  |        | <0.6   |
| Chloroform                        | µg/l  |        | 31.7   |
| Dibromochloromethane              | µg/l  |        | 5.2    |
| Total Trihalomethanes             | µg/l  | < 100  | 52.1   |
| Boron                             | µg/l  | < 1000 | 24     |
| Sodium                            | mg/l  | < 200  | 26     |
| Aluminium                         | µg/l  | < 200  | <10.0  |
| Chromium                          | µg/l  | < 50   | <1.0   |
| Iron                              | µg/l  | < 200  | 60     |
| Manganese                         | µg/l  | < 50   | 6.3    |
| Nickel                            | µg/l  | < 20   | <1.0   |
| Copper                            | mg/l  | < 2    | 0.02   |
| Arsenic                           | µg/l  | < 10   | <1.0   |
| Selenium                          | µg/l  | < 10   | <1.0   |
| Cadmium                           | µg/l  | < 5    | 0.02   |
| 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