

## 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:** 04/12/14

**Location sampled:** Inniskeen P.W.S

Date collected: 20/10/2014

Date received: 20/10/2014

Analysis group: DW Audit

Comments:

|           |                                  |            | <b>Laboratory Ref:</b>                | 1413779           |
|-----------|----------------------------------|------------|---------------------------------------|-------------------|
|           |                                  |            | <b>Type of sample:</b>                | Drinking Water    |
|           |                                  |            | <b>Sampling point:</b>                | Ruddy, The Glebe  |
|           |                                  |            | <b>Sampled by:</b>                    | Dermot McCague    |
|           |                                  |            | <b>Time Sampled:</b>                  | nt                |
|           |                                  |            | <b>Start/End - Dates of Analysis:</b> | 21-10-14/21-11-14 |
|           |                                  |            | <b>Grid Ref:</b>                      | 293179 306951     |
|           |                                  |            | <b>Status of results:</b>             | <b>Final</b>      |
| Parameter | Units                            | Limits     |                                       |                   |
| F<br>**   | Residual Chlorine                | mg/l Cl    |                                       | 0.07              |
| F<br>**   | Taste                            |            |                                       | ATC               |
| F<br>**   | Odour                            |            |                                       | nd                |
|           | pH                               | pH         | > 6.5 And < 9.5                       | 7.3               |
|           | True Colour                      | Hazen      |                                       | 6                 |
|           | Conductivity @25°C               | µS/cm @ 25 | < 2760                                | 334               |
|           | Conductivity @20°C               | µS/cm @ 20 | < 2500                                | 302               |
| **        | Coliform Bacteria                | No/100 ml  | 0                                     | <b>1</b>          |
| **        | E. Coli                          | No/100 ml  | 0                                     | 0                 |
| **        | Clostridia Perfringens           | No/100ml   | 0                                     | 0                 |
| **        | Heterotrophic plate count @ 22°C | No/ml      |                                       | 8                 |
| **        | Enterococci                      | No/100ml   | 0                                     | 0                 |
|           | Chloride                         | mg/l Cl    | < 250                                 | 42                |
|           | 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                                | 60                |
|           | Total Oxidised Nitrogen (as NO3) | mg/l NO3   | < 50                                  | 5.3               |
|           | Nitrate (as NO3)                 | mg/l NO3   | < 50                                  | 5.3               |
| **        | Bromate                          | ug/l       | < 10                                  | <0.1              |
| **        | Cyanide                          | mg/l CN    | < 0.05                                | <0.01             |
|           | Fluoride                         | mg/l F     | < 0.8                                 | <0.20             |
|           | Total Hardness (as Ca)           | mg/l Ca    |                                       | 37                |
|           | Sulphate                         | mg/l SO4   | < 250                                 | 35                |
| **        | Total Organic Carbon             | mg/l C     |                                       | 3.4               |
|           | Turbidity                        | NTU        |                                       | <0.5              |
|           | Turbidity - Works                | NTU        |                                       | <0.5              |

|                                       |                   |
|---------------------------------------|-------------------|
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| <b>Sampled by:</b>                    | Dermot McCague    |
| <b>Time Sampled:</b>                  | nt                |
| <b>Start/End - Dates of Analysis:</b> | 21-10-14/21-11-14 |
| <b>Grid Ref:</b>                      | 293179 306951     |
| <b>Status of results:</b>             | <b>Final</b>      |

| Parameter                         | Units | Limits |        |
|-----------------------------------|-------|--------|--------|
| ** Boron                          | µg/l  | < 1000 | 15     |
| ** Sodium                         | mg/l  | < 200  | 29     |
| ** Aluminium                      | µg/l  | < 200  | <10.0  |
| ** Chromium                       | µg/l  | < 50   | <1.0   |
| ** Iron                           | µg/l  | < 200  | 52     |
| ** Manganese                      | µg/l  | < 50   | <5.0   |
| ** Nickel                         | µg/l  | < 20   | 4      |
| ** 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  | < 25   | <1.0   |
| ** Antimony                       | µg/l  | < 5    | <1.0   |
| ** Mercury                        | µg/l  |        | <0.050 |
| 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  | 0.09   |
| 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  |        | 14.9   |
| Bromoform                         | µg/l  |        | <0.6   |
| Chloroform                        | µg/l  |        | 23.9   |
| Dibromochloromethane              | µg/l  |        | 4.5    |
| Total Trihalomethanes             | µg/l  | < 100  | 43.4   |

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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:

04/Dec/2014

Ray Smith  
Regional Manager,  
EPA  
Monaghan