

## Common Test Results For Grant-Roberts Rural Water System (EPA ID: 0864)

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           Milbank SD 57252-0145

Location- City: Milbank    County: Codington, Grant, Roberts, Tripp  
 Service Area- Other residential areas  
 PWS Owner Type- Private Ownership  
 Water Supply Type- Groundwater Supply

Population Served- 5,050      Service Connections- 2,020

### Sources for Grant-Roberts Rural Water System

| Source | Name            | Year Built | Depth (feet) | Diameter (inches) | Availability | Type            | Vulnerability  | Treatment   |
|--------|-----------------|------------|--------------|-------------------|--------------|-----------------|----------------|---|
| 01     | #1              | 1980       | 90           | 10                | Permanent    | Groundwater     | Vulnerable     | Treatment At Plant  |
| 02     | #2              | 1980       | 94           | 10                |              | Groundwater     | Vulnerable     | Treatment At Plant  |
| 03     | #3              | 1980       | 110          | 10                | Permanent    | Groundwater     | Vulnerable     | Treatment At Plant  |
| 04     | TREATMENT PLANT |            |              |                   | Permanent    | Treatment Plant | Non-Vulnerable | Aeration Coagulation, Softening - KMnO4 Disinfection - Gas Chlorine Filtration - Green Sand Corrosion Control - Caustic Soda Phosphates Ammoniation - Sedimentation Fluoridation - H2SiF6 |
| 08     | #4              | 2006       | 100          | 10                | Permanent    | Groundwater     | Vulnerable     | Treatment At Plant  |
| 09     | #5              | 2006       | 112          | 10                |              | Groundwater     | Vulnerable     | Treatment At Plant  |
| 10     | #6              | 2006       | 114          | 10                | Permanent    | Groundwater     | Vulnerable     | Treatment At Plant  |
| 11     | #7              | 2009       | 116          | 10                | Permanent    | Groundwater     | Vulnerable     | Treatment At Plant  |
| 12     | #8              | 2009       | 120          | 10                | Permanent    | Groundwater     | Vulnerable     | Treatment At Plant  |

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## Test Data

(All chemical data are reported in milligrams per liter (mg/l) except pH and Langlier Index)

| Source | Type | Date     | TDS | Conductance | pH   | Alk-M | Alk-P | Na | K   | Ca   | Mg   | Fe   | Mn   | Cl  | SO4 | HCO3 | CO3 | Hardness | Langlier | NO3 | F    |
|--------|------|----------|-----|-------------|------|-------|-------|----|-----|------|------|------|------|-----|-----|------|-----|----------|----------|-----|------|
| 04     | Raw  | 08/23/94 | 407 | 630         | 7.55 | 231   | 0     | 8  | 3.0 | 87.5 | 26.1 | 0.10 | 0.25 | 6.3 | 127 | 282  | 0   | 326      | +0.32    | 0.1 | 0.19 |

| Source   | Type    | Date     | TDS | Conductance | pH   | Alk-M | Alk-P | Na | K   | Ca    | Mg   | Fe   | Mn   | Cl   | SO4 | HCO3 | CO3 | Hardness | Langlier | NO3 | F    |
|----------|---------|----------|-----|-------------|------|-------|-------|----|-----|-------|------|------|------|------|-----|------|-----|----------|----------|-----|------|
| 01       | Treated | 10/13/92 | 0   | 0           | 0.00 | 0     | 0     | 0  | 0.0 | 0.0   | 0.0  | 0.05 | 0.03 | 0.0  | 0   | 0    | 0   | 0        | 0.00     | 0.0 | 0.97 |
| 04       | Treated | 02/19/97 | 365 | 578         | 7.58 | 215   | 0     | 8  | 2.8 | 72.3  | 22.7 | 0.16 | 0.06 | 4.0  | 88  | 262  | 0   | 274      | +0.25    | 0.1 | 1.21 |
| 04       | Treated | 12/21/99 | 446 | 631         | 7.67 | 222   | 0     | 7  | 3.6 | 90.7  | 25.8 | 0.02 | 0.02 | 4.5  | 118 | 271  | 0   | 333      | +0.43    | 0.1 | 1.38 |
| 04       | Treated | 02/25/03 | 400 | 618         | 7.77 | 229   | 0     | 12 | 2.9 | 79.9  | 25.8 | 0.03 | 0.02 | 19.0 | 88  | 279  | 0   | 306      | +0.50    | 0.1 | 1.19 |
| 04       | Treated | 06/27/06 | 391 | 593         | 7.15 | 211   | 0     | 8  | 2.8 | 85.8  | 23.3 | 0.03 | 0.02 | 18.0 | 84  | 257  | 0   | 310      | -0.12    | 0.1 | 1.35 |
| 04       | Treated | 05/21/09 | 515 | 758         | 7.41 | 232   | 0     | 13 | 4.0 | 109.0 | 28.9 | 0.03 | 0.06 | 12.0 | 171 | 283  | 0   | 391      | +0.26    | 0.2 | 1.17 |
| 04       | Treated | 03/31/15 | 534 | 786         | 7.44 | 235   | 0     | 13 | 4.2 | 114.0 | 31.3 | 0.03 | 0.05 | 10.0 | 176 | 287  | 0   | 413      | +0.31    | 0.2 | 0.75 |
| 04       | Treated | 12/19/17 | 510 | 713         | 7.59 | 227   | 0     | 12 | 3.9 | 102.0 | 28.5 | 0.05 | 0.14 | 12.0 | 159 | 277  | 0   | 372      | +0.40    | 0.0 | 0.72 |
| 04       | Treated | 07/15/20 | 574 | 802         | 7.51 | 236   | 0     | 12 | 3.6 | 114.0 | 31.9 | 0.00 | 0.00 | 10.2 | 206 | 288  | 0   | 416      | +0.52    | 0.0 | 0.61 |
| 04       | Treated | 08/22/23 | 579 | 813         | 7.69 | 237   | 0     | 11 | 3.7 | 118.0 | 31.1 | 0.00 | 0.06 | 9.9  | 195 | 289  | 0   | 423      | +0.73    | 0.0 | 0.64 |
| Averages |         |          | 431 | 629         | 6.78 | 204   | 0     | 10 | 3.2 | 88.6  | 24.9 | 0.04 | 0.05 | 10.0 | 128 | 249  | 0   | 324      |          | 0.1 | 1.00 |