

EPA ID#: 0324 System Name: Blucksberg Mtn Water Association

Sampler- Mr Al Sage Work Phone-(605)391-7483
Title- Water Manager
Address- 5310 Ebony Place
Piedmont SD 57769

Location- City: Sturgis County: Meade
Service Area- Homeowners Association
PWS Owner Type- Private Ownership
Water Supply Type- Groundwater Supply

Population Served- 528 Service Connections- 211

Sources for Blucksberg Mtn Water Association

| Source | Name | Year Built | Depth (feet) | Diameter (inches) | Availability | Type | Vulnerability | Treatment |
|--------|-----------------|------------|--------------|-------------------|--------------|-----------------|----------------|------------------------------|
| 01 | TREAT SITE - #1 | | | | Permanent | Treatment Plant | Non-Vulnerable | Disinfection - Hypochlorites |
| 02 | TREAT SITE - #2 | | | | Permanent | Treatment Plant | Non-Vulnerable | Disinfection - Hypochlorites |
| 03 | TREAT SITE - #3 | | | | Permanent | Treatment Plant | Non-Vulnerable | Disinfection - Hypochlorites |
| 07 | #1-NORTH | 1973 | 1000 | 7 | Permanent | Groundwater | Vulnerable | Treatment At Plant |
| 08 | #2-SOUTH | 1976 | 1120 | 7 | Permanent | Groundwater | Vulnerable | Treatment At Plant |
| 09 | #3-CENTRAL | 1996 | 1600 | 7 | Permanent | Groundwater | Non-Vulnerable | Treatment At Plant |

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Common Ion Data

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

Please refer to Private Well Data for more information about these test results.

| 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 | Raw | 03/29/94 | 215 | 375 | 7.79 | 204 | 0 | 2 | 1.2 | 54.9 | 18.8 | 1.22 | 0.03 | 2.0 | 15 | 249 | 0 | 214 | -0.41 | 0.4 | 0.15 |
| 02 | Raw | 03/29/94 | 191 | 375 | 7.83 | 197 | 0 | 2 | 1.3 | 47.9 | 19.9 | 0.02 | 0.02 | 3.2 | 12 | 240 | 0 | 202 | -0.38 | 0.2 | 0.17 |
| 01 | Raw | 11/26/96 | 206 | 400 | 7.60 | 195 | 0 | 2 | 1.0 | 54.0 | 17.0 | 0.05 | 0.03 | 1.0 | 11 | 238 | 0 | 205 | +0.20 | 0.2 | 0.20 |
| 02 | Raw | 11/28/96 | 190 | 380 | 7.60 | 192 | 0 | 2 | 1.0 | 43.0 | 18.0 | 0.05 | 0.03 | 2.0 | 7 | 234 | 0 | 182 | +0.10 | 0.2 | 0.10 |
| 01 | Raw | 04/12/00 | 178 | 399 | 7.74 | 194 | 0 | 3 | 1.0 | 52.0 | 16.0 | 0.03 | 0.01 | 1.0 | 15 | 237 | 1 | 200 | +0.22 | 0.2 | 0.20 |
| 02 | Raw | 04/12/00 | 160 | 376 | 7.80 | 189 | 0 | 3 | 1.0 | 45.0 | 18.0 | 0.03 | 0.01 | 1.0 | 9 | 231 | 1 | 190 | +0.21 | 0.2 | 0.10 |
| 03 | Raw | 04/12/00 | 126 | 316 | 7.97 | 161 | 0 | 4 | 1.0 | 38.0 | 14.0 | 3.00 | 0.01 | 1.0 | 19 | 196 | 1 | 150 | +0.27 | 0.1 | 0.20 |
| 07 | Raw | 06/20/12 | 221 | 409 | 7.74 | 200 | 0 | 4 | 1.2 | 57.5 | 18.0 | 0.05 | 0.01 | 1.5 | 14 | 244 | 0 | 217 | +0.30 | 0.5 | 0.15 |
| 08 | Raw | 06/20/12 | 197 | 374 | 7.88 | 190 | 0 | 3 | 1.3 | 47.9 | 18.9 | 0.43 | 0.01 | 0.6 | 10 | 232 | 0 | 198 | +0.34 | 0.2 | 0.17 |
| 09 | Raw | 06/20/12 | 153 | 284 | 8.13 | 145 | 0 | 4 | 1.1 | 36.4 | 13.5 | 0.05 | 0.01 | 0.7 | 10 | 177 | 0 | 147 | +0.35 | 0.1 | 0.18 |
| Averages | | | 184 | 369 | 7.81 | 187 | 0 | 3 | 1.1 | 47.7 | 17.2 | 0.49 | 0.02 | 1.4 | 12 | 228 | 0 | 190 | | 0.2 | 0.16 |

| Source | Type | Date | TDS | Conductance | pH | Alk-M | Alk-P | Na | K | Ca | Mg | Fe | Mn | Cl | SO4 | HCO3 | CO3 | Hardness | Langlier | NO3 | F |
|----------|---------|----------|-----|-------------|------|-------|-------|----|-----|------|------|------|------|------|-----|------|-----|----------|----------|-----|------|
| 08 | Treated | 07/29/03 | 200 | 376 | 8.09 | 193 | 0 | 2 | 1.1 | 48.0 | 19.9 | 0.03 | 0.02 | 3.0 | 10 | 235 | 0 | 202 | +0.57 | 0.3 | 0.17 |
| 07 | Treated | 07/29/03 | 223 | 407 | 7.70 | 202 | 0 | 4 | 1.1 | 55.2 | 18.4 | 0.04 | 0.02 | 3.0 | 10 | 246 | 0 | 214 | +0.27 | 0.3 | 0.17 |
| 09 | Treated | 07/29/03 | 202 | 377 | 7.76 | 193 | 0 | 2 | 1.2 | 51.5 | 19.2 | 0.05 | 0.02 | 3.0 | 10 | 235 | 0 | 208 | +0.29 | 0.2 | 0.16 |
| 07 | Treated | 09/27/05 | 203 | 403 | 7.85 | 198 | 0 | 3 | 0.8 | 48.0 | 18.4 | 0.05 | 0.01 | 1.3 | 21 | 241 | 0 | 196 | +0.32 | 0.0 | 0.14 |
| 09 | Treated | 09/27/05 | 154 | 328 | 7.91 | 166 | 0 | 4 | 0.8 | 37.3 | 15.0 | 0.05 | 0.01 | 1.3 | 10 | 202 | 0 | 155 | +0.20 | 0.0 | 0.15 |
| 08 | Treated | 09/27/05 | 173 | 374 | 8.10 | 190 | 0 | 2 | 0.9 | 41.4 | 19.4 | 0.05 | 0.01 | 0.5 | 10 | 232 | 0 | 183 | +0.49 | 0.0 | 0.16 |
| 01 | Treated | 06/02/09 | 320 | 417 | 8.06 | 204 | 0 | 9 | 1.0 | 51.0 | 17.0 | 0.00 | 0.00 | 9.5 | 14 | 249 | 0 | 200 | +0.65 | 0.3 | 0.20 |
| 02 | Treated | 06/02/09 | 210 | 355 | 7.98 | 190 | 0 | 4 | 1.0 | 47.0 | 20.0 | 0.00 | 0.00 | 3.4 | 8 | 232 | 0 | 200 | +0.54 | 0.2 | 0.30 |
| 03 | Treated | 06/02/09 | 240 | 404 | 7.99 | 172 | 0 | 27 | 1.0 | 42.0 | 15.0 | 0.00 | 0.00 | 26.8 | 6 | 210 | 0 | 160 | +0.45 | 0.2 | 0.20 |
| 03 | Treated | 04/01/15 | 188 | 375 | 7.97 | 191 | 0 | 3 | 1.2 | 46.2 | 20.6 | 0.00 | 0.00 | 0.0 | 0 | 233 | 0 | 200 | +0.41 | 0.5 | 0.14 |
| 08 | Treated | 04/01/15 | 177 | 383 | 7.90 | 193 | 0 | 5 | 1.3 | 47.2 | 20.1 | 0.00 | 0.00 | 3.5 | 0 | 236 | 0 | 201 | +0.36 | 0.0 | 0.15 |
| 07 | Treated | 04/01/15 | 221 | 419 | 7.80 | 203 | 0 | 5 | 1.2 | 56.8 | 19.0 | 0.00 | 0.00 | 4.0 | 15 | 248 | 0 | 220 | +0.36 | 0.5 | 0.14 |
| Averages | | | 209 | 385 | 7.93 | 191 | 0 | 6 | 1.0 | 47.6 | 18.5 | 0.02 | 0.01 | 4.9 | 10 | 233 | 0 | 195 | | 0.2 | 0.17 |