



3851B - 21 Street NE • Calgary, Alberta, Canada • T2E 6T5

Phone: (403) 250-9164 • Fax: (403) 291-4597 • www.wshlabs.com

Town of Penhold
1001 Minto St Box 10
Penhold AB TOM IRO

Phone: 403-886-4567 **Lab Number:** 82944
Fax: 403-886-4039
Email: nmcateer@townofpenhold.ca **PO Number**

Sample Info: 144 Lincoln Street

Sampled By: N. McAteer
Date Sampled: 12/19/2017
Date Received: 12/19/2017
Date Reported: 1/12/2018

| Analyte | Units | Result | Canadian Drinking Water Guideline Maximum |
|--|-------|--------|---|
| Calcium | mg/L | 106 | No Guideline |
| Iron | mg/L | 0.09 | 0.3 |
| Magnesium | mg/L | 57.6 | No Guideline |
| Manganese | mg/L | <0.01 | 0.05 |
| Potassium | mg/L | 3.1 | No Guideline |
| Sodium | mg/L | 104 | 200 |
| Bicarbonates | mg/L | 658 | No Guideline |
| Bromides | mg/L | <0.01 | No Guideline |
| Carbonates | mg/L | 6 | No Guideline |
| Chlorides | mg/L | 10.7 | 250 |
| Fluorides | mg/L | 0.46 | 1.5 |
| Nitrates as N | mg/L | 0.08 | 10 |
| Nitrites as N | mg/L | <0.002 | 1 |
| NO ₃ + NO ₂ as N | mg/L | 0.08 | No Guideline |
| Sulfates | mg/L | 194 | 500 |

| Parameter | Units | Result | Canadian Drinking Water Guideline Maximum |
|--|-------|--------|---|
| Electrical Conductivity | µS/cm | 1395 | No Guideline |
| pH | pH | 8.34 | 7.0 - 10.5 |
| Hardness (as CaCO ₃) | mg/L | 502 | No Guideline |
| Total Alkalinity (as CaCO ₃) | mg/L | 551 | No Guideline |
| P-Alkalinity (as CaCO ₃) | mg/L | 3 | No Guideline |
| Hydroxide (as CaCO ₃) | mg/L | 0 | No Guideline |
| Total Dissolved Solids (calculated) | mg/L | 807 | 500 |
| Sulfides as S | mg/L | <0.03 | 0.05 |
| Turbidity | NTU | 0.8 | 1 |
| Color | TCU | <5 | 15 |
| Ammonia Nitrogen | mg/L | <0.9 | No Guideline |
| Total Organic Carbon | mg/L | 4.6 | No Guideline |
| Bromate | mg/L | <0.050 | 0.01 |
| Chloramines | mg/L | 0.2 | 3 |
| Chlorate | mg/L | <0.10 | 1 |
| Chlorite | mg/L | <0.10 | 1 |
| UV Absorbance | Abs | 0.064 | No Guideline |

| Microbiology | Units | Result | Canadian Drinking Water Guideline Maximum |
|----------------|-------|--------|---|
| Microcystin-LR | µg/L | <0.14 | 1.5 |

| | | | |
|----------------|-------|-------------------------|------|
| Sum of Cations | 14.62 | TDS / EC Ratio | 0.58 |
| Sum of Anions | 15.34 | Sodium Adsorption Ratio | 2.02 |
| Ion Balance | 0.95 | Saturation Index | 1.58 |



3851B - 21 Street NE • Calgary, Alberta, Canada • T2E 6T5

Phone: (403) 250-9164 • Fax: (403) 291-4597 • www.wshlabs.com

Town of Penhold
1001 Minto St Box 10
Penhold AB TOM IRO

Phone: 403-886-4567 **Lab Number:** 82944
Fax: 403-886-4039
Email: mcateer@townofpenhold.ca **PO Number:**

Sample Info: 144 Lincoln Street

Sampled By: N. McAteer
Date Sampled: 12/19/2017
Date Received: 12/19/2017
Date Reported: 1/12/2018

| Trace Metals | Units | Result | Canadian Drinking Water Guideline Maximum |
|--------------|-------|--------|---|
| Boron | µg/L | 253 | 5000 |
| Aluminum | µg/L | <0.2 | 100 |
| Chromium | µg/L | 0.2 | 50 |
| Copper | µg/L | 9.1 | 1000 |
| Zinc | µg/L | 5.8 | 5000 |
| Arsenic | µg/L | 4.0 | 10 |
| Selenium | µg/L | 0.1 | 50 |
| Silver | µg/L | <0.04 | No Guideline |
| Cadmium | µg/L | <0.05 | 5 |
| Antimony | µg/L | <0.3 | 6 |
| Barium | µg/L | 23.0 | 1000 |
| Mercury | µg/L | <0.05 | 1 |
| Lead | µg/L | 0.1 | 10 |
| Uranium | µg/L | 1.1 | 20 |

WSH Labs (1992) Ltd. as per: KBW

Accredited by CALA to ISO/IEC 17025 for specific tests. The results above are related only to the items analyzed.
< denotes less than detection limit.