

# Laboratory Report

Exova

Report For: City of Prince George  
Received: 07/17/2018 10:11  
Report ID: 2270802  
Report Name:

**Sample ID:** 1259569-1  
**Water System:** Core Water System  
**Source:** PW 624 and PW 621 Wells  
**Facility:** PW 624 Well Pumphouse  
**Sampling Pt:** PW 624 Pumphouse Well 1 raw water (PW624-1-SR, DBA5)  
**Comment:** DBA5 / PW624-Raw Water / 7.1 °C  
**Sampled:** 03/14/2018 11:30

| INORGANIC                     |                |         | Criteria & Type            | Status |
|-------------------------------|----------------|---------|----------------------------|--------|
| Aluminum (total)              | < 0.001 mg/L   | <=0.1   | Operational - Conventional | Final  |
| Antimony (total)              | 0.00010 mg/L   | <=0.006 | MAC                        | Final  |
| Arsenic (total)               | 0.0013 mg/L    |         | Current Level              | Final  |
| Barium (total)                | 0.049 mg/L     | <=1     | MAC                        | Final  |
| Beryllium (total)             | < 0.00005 mg/L |         |                            | Final  |
| Bismuth (total)               | < 0.0001 mg/L  |         |                            | Final  |
| Boron (total)                 | 0.014 mg/L     | <=5     | MAC                        | Final  |
| Cadmium (total)               | 0.00003 mg/L   | <=0.005 | MAC                        | Final  |
| Calcium (dissolved)           | 48 mg/L        |         |                            | Final  |
| Calcium (total)               | 50 mg/L        |         |                            | Final  |
| Chloride                      | 12.6 mg/L      | <=250   | AO                         | Final  |
| Chromium (total)              | < 0.00005 mg/L | <=0.05  | MAC                        | Final  |
| Cobalt (total)                | < 0.00002 mg/L |         |                            | Final  |
| Copper (total)                | 0.044 mg/L     | <=1     | AO                         | Final  |
| Fluoride                      | 0.04 mg/L      | <=1.5   | MAC                        | Final  |
| Iron (total)                  | 0.011 mg/L     | <=0.3   | AO                         | Final  |
| Iron (total)                  | 0.015 mg/L     | <=0.3   | AO                         | Final  |
| Lead (total)                  | 0.0029 mg/L    | <=0.01  | MAC                        | Final  |
| Lithium (total)               | 0.0037 mg/L    |         |                            | Final  |
| Magnesium (dissolved)         | 15 mg/L        |         |                            | Final  |
| Magnesium (total)             | 15 mg/L        |         |                            | Final  |
| Manganese (total)             | 0.040 mg/L     | <=0.05  | AO                         | Final  |
| Manganese (total)             | 0.041 mg/L     | <=0.05  | AO                         | Final  |
| Molybdenum (total)            | 0.0023 mg/L    |         |                            | Final  |
| Nickel (total)                | 0.0009 mg/L    |         |                            | Final  |
| Nitrate (as N)                | 0.07 mg/L      |         |                            | Final  |
| Nitrite (as N)                | < 0.01 mg/L    |         |                            | Final  |
| o-Phosphate (dissolved, as P) | 0.014 mg/L     |         |                            | Final  |
| Potassium (dissolved)         | 2.9 mg/L       |         |                            | Final  |
| Potassium (total)             | 3.1 mg/L       |         |                            | Final  |
| Selenium (total)              | 0.0006 mg/L    | <=0.05  | MAC                        | Final  |

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**Sample ID:** 1259569-1 (continued)  
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**Source:** PW 624 and PW 621 Wells  
**Facility:** PW 624 Well Pumphouse  
**Sampling Pt:** PW 624 Pumphouse Well 1 raw water (PW624-1-SR, DBA5)  
**Comment:** DBA5 / PW624-Raw Water / 7.1 °C  
**Sampled:** 03/14/2018 11:30

| INORGANIC              |                | Criteria & Type |     | Status |
|------------------------|----------------|-----------------|-----|--------|
| Silicon (total, as Si) | 7.1 mg/L       |                 |     | Final  |
| Silver (total)         | 0.00002 mg/L   |                 |     | Final  |
| Sodium (dissolved)     | 7.3 mg/L       |                 |     | Final  |
| Sodium (total)         | 7.8 mg/L       | <=200           | AO  | Final  |
| Strontium (total)      | 0.38 mg/L      |                 |     | Final  |
| Sulfur (total)         | 5.5 mg/L       |                 |     | Final  |
| Sulphate               | 15.2 mg/L      | <=500           | AO  | Final  |
| Thallium (total)       | < 0.00001 mg/L |                 |     | Final  |
| Tin (total)            | < 0.0001 mg/L  |                 |     | Final  |
| Titanium (total)       | 0.006 mg/L     |                 |     | Final  |
| Uranium (total)        | 0.0019 mg/L    | <=0.02          | MAC | Final  |
| Vanadium (total)       | 0.0012 mg/L    |                 |     | Final  |
| Zinc (total)           | 0.13 mg/L      | <=5             | AO  | Final  |
| Zirconium (total)      | < 0.0001 mg/L  |                 |     | Final  |

| MICROORGANISMS                        |                 | Criteria & Type |                          | Status |
|---------------------------------------|-----------------|-----------------|--------------------------|--------|
| Escherichia coli / E. coli (MPN / PA) | < 1.0 MPN/100ml | <=0,P           | Microbiological standard | Final  |
| Fecal Coliforms (counts)              | < 1 CFU/100ml   | <=0             | Microbiological Standard | Final  |
| Total Coliforms (MPN / PA)            | < 1.0 MPN/100ml | <=0,P           | User-Defined             | Final  |

| ORGANIC                      |              | Criteria & Type |                                                         | Status |
|------------------------------|--------------|-----------------|---------------------------------------------------------|--------|
| Bromodichloromethane         | < 0.001 mg/L | <=0.1           | IMAC for TTHM expressed as a running annual average     | Final  |
| Bromoform                    | < 0.001 mg/L | <=0.1           | IMAC for TTHM expressed as a running annual average     | Final  |
| Chloroform                   | < 0.001 mg/L | <=0.1           | Standard for TTHM expressed as a running annual average | Final  |
| Dibromochloromethane         | < 0.001 mg/L | <=0.1           | IMAC for TTHM expressed as a running annual average     | Final  |
| Total Organic Carbon / TOC   | 1.4 mg/L     |                 |                                                         | Final  |
| Total Trihalomethanes / TTHM | < 0.001 mg/L | <=0.1           | IMAC based on running annual average                    | Final  |

| PHYSICAL                     |          | Criteria & Type |  | Status |
|------------------------------|----------|-----------------|--|--------|
| Alkalinity (total, as CaCO3) | 160 mg/L |                 |  | Final  |
| Bicarbonate (as HCO3)        | 195 mg/L |                 |  | Final  |





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**Sampling Pt:** PW 624 Pumphouse Well 1 raw water (PW624-1-SR, DBA5)  
**Comment:** DBA5 / PW624-Raw Water / 7.1 °C  
**Sampled:** 03/14/2018 11:30

| PHYSICAL                                |         |       | Criteria & Type  | Status |
|-----------------------------------------|---------|-------|------------------|--------|
| Colour                                  | < 5     | TCU   | <=15 AO          | Final  |
| Conductivity                            | 375     | uS/cm |                  | Final  |
| Hardness (total, as CaCO3)              | 180     | mg/L  |                  | Final  |
| Hydroxide (as OH)                       | < 5     | mg/L  |                  | Final  |
| pH                                      | 7.82    |       | Current Level    | Final  |
| Total Dissolved Solids / TDS (computed) | 214     | mg/L  |                  | Final  |
| Total Suspended Solids / TSS            | < 2.000 | mg/L  |                  | Final  |
| Turbidity                               | 0.15    | NTU   | <=5 User-Defined | Final  |

### Result Legend

P=present, A=absent, PR=presumptive, ND=non-detect, OR=over-range, OG=overgrown, Y=yes, N=no, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment  
< means less than lower detection limit shown

> means greater than upper detection limit shown

« means detected & less than number shown

» means detected & greater than number shown

\* Indicates Criteria is exceeded