

## Application for Waterworks Operating Permit Guide

| Water System Type               | Sections not required                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Haulers (trucks)          | <p><i>Environmental Operators Certification Program Classification and Training</i> – not required</p> <p><i>Source</i> – Select “Hauled from an approved source”, enter name of approved source in “Name” (for example, Chetwynd Community Water System)</p> <p><i>Treatment Plant</i> not required – enter “No Treatment”</p> <p><i>Distribution</i> not required – enter “No Distribution”</p> |
| Hauled water systems (Cisterns) | <p><i>Treatment Plant</i> not required, enter “No Treatment”</p> <p><i>Source</i> – select “Hauled from an approved source”, other fields not required</p>                                                                                                                                                                                                                                        |
| All others                      | N/A                                                                                                                                                                                                                                                                                                                                                                                               |

|          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>1</u> | Legal Owner               | Name of legal entity responsible for supplying safe water. May be corporation. Not contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <u>2</u> | Operator/Site Information | <p>Person in Charge - operator, main on-site contact for Environmental Health Officer (EHO)</p> <p>Water System Address - physical location of water system, if no street address, use best description of location or km marker (i.e. Km 18.5 Sukunka FSR, or Mile 192 Alaska Hwy)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <u>3</u> | Subtype                   | <p>Where water system serves more than one purpose, select what you consider the main purpose</p> <p><b>Municipal</b> – City, town, village, regional district, municipality, water utility, strata greater than 200 homes</p> <p><b>Residential</b> – Mobile home park, shared wells, strata less than 200 homes</p> <p><b>Water Hauler</b> – Trucks, bulk fill station</p> <p><b>Workplace</b> – Industrial, commercial, institutional, offices, factories, other businesses</p> <p><b>Work Camp</b> – Forestry camps, drilling camps, temporary camps</p> <p><b>Licensed Care</b> – Long-term care home, hospital</p> <p><b>Educational</b> – Schools, day-cares</p> <p><b>Food</b> – Food services, water bottlers, water dispenser, restaurants, cut &amp; wrap</p> <p><b>Recreational</b> – Seasonal camps, resorts, RV parks, hotel, B&amp;B, community hall, church</p> <p><b>Non-potable</b> – Showers and toilets, truck stop washrooms (exempt under s. 3.1 DWPA)</p> |



|                  |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>4</u></b>  | Governance                          | Choose the applicable governance structure for the water system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b><u>5</u></b>  | Type (Source)                       | <p><b>Lake</b> – includes natural ponds</p> <p><b>Flowing</b> – includes rivers, streams, creeks</p> <p><b>Deep well</b> – greater than 50 ft. (15m) to top of intake screen or uppermost fracture</p> <p><b>Shallow well</b> – less than 50 ft. (15 m)</p> <p><b>Reclaimed water</b> – treated wastewater, only for non-potable uses</p> <p><b>Infiltration Gallery</b> – has horizontal perforated pipes beside or under a surface water body. Usually considered a surface water source, but could be GARP will if the streambed is not disturbed. If intake pipe is in open water, use Lake or Flowing</p> <p><b>Other</b> – provide an explanation</p> |
| <b><u>6</u></b>  | Source Status                       | <p>If there is only one source, the status is Sole. If more than one choose from the following for each source:</p> <p><b>Primary</b> – main source</p> <p><b>Combined</b> – multiple sources operating or alternating</p> <p><b>Demand</b> – only used when demand is high</p> <p><b>Standby</b> – only used when usual source(s) out of service</p> <p><b>Seasonal</b> – only operators when water quality in usual source is poor due to seasonal conditions (i.e. spring run-off)</p> <p><b>Inactive</b> – not used but may still have pump connected</p>                                                                                               |
| <b><u>7</u></b>  | System Source Classification        | To determine if Groundwater is At Risk of containing Pathogens (GARP) provide either a hydrogeology report or complete the GARP Screening tool named "Screening of Groundwater Sources" found on the Public Health Engineering page                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b><u>8</u></b>  | Name (Treatment Plant)              | Enter "No Treatment" if there is none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b><u>9</u></b>  | Design Flow Rate                    | Use UV rating in gpm. The operator or a design report may also have this information. If unknown, enter "Unknown"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b><u>10</u></b> | Treatment Schematic Sketch Attached | If a treatment schematic has not been submitted previously then one is to be attached to the application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u><b>11</b></u> | Filtration Type                   | <p>Select all suspended solids filters applicable</p> <p><b>Pre-filtration</b> – for course solids</p> <p><b>Coagulation/Flocculation</b> – is chemical addition</p> <p><b>Slow Sand</b> – is flow by gravity through biological layer</p> <p><b>Rapid Sand</b> – is by gravity and includes multimedia granular filters</p> <p><b>Pressure filtration</b> – is similar to a typical pool filter as opposed to gravity flow</p> <p><b>Cartridge filtration</b> – uses 10 or 20 in plastic housings – for small water systems</p> <p><b>Microfiltration</b> – ~0.1 µm</p> <p><b>Ultrafiltration</b> – ~0.01 µm</p> <p><b>Nanofiltration</b> – ~0.001 µm</p> <p><b>Reverse Osmosis (RO)</b> – &lt;0.001 µm</p> <p><b>Settling/Clarifier</b> – part of a conventional filtration plant</p> <p><b>Flotation</b> – used at a DAF plant in place of settling.</p> <p>Do NOT enter <b>GAC</b> here, it is chemical treatment</p> |
| <u><b>12</b></u> | Smallest Filter/<br>Media Size    | Specify “absolute” for cartridge filters validated for cyst removal; “nominal” otherwise. Cartridge and membrane filters are sized in microns. For media filters, enter the effective particle size.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <u><b>13</b></u> | Parameters of Concern             | Examples – pH, hardness, Iron, Manganese, Organic Carbon, Arsenic, Lead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u><b>14</b></u> | Chemical treatment process(es)    | List all applicable chemical treatment processes. I.e. softener (cation exchange), activated carbon, RO, greensand-type filtration, stabilisation, oxidation, coagulation, sediment filtration, anion exchange, mixed-bed ion exchange, other (describe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <u><b>15</b></u> | Primary disinfection              | Select all applicable. Primary chlorination must achieve C·T value of 12 min·mg/L. Ultraviolet must meet NSF Class 55A to achieve primary disinfection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u><b>16</b></u> | Secondary (residual disinfection) | Usually chlorination or none. Usually specified as >0.2 ppm free available chlorine (FAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <u><b>17</b></u> | Name (Distribution)               | If only one distribution system enter “Distribution System”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <u><b>18</b></u> | Number of connections (buildings) | Each residence or building is one connection (not each fixture within a building).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u><b>19</b></u> | Maximum population in 24 hours    | Use maximum population served in any 24-hr period during the year. For Food, maximum number of customers/day.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <u><b>20</b></u> | Typical population in 24 hours    | Typical or average population is a more reasonable estimate of average population, based on operator judgement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                  |                                   |                                                                                                                                                                                                                                       |
|------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>21</u></b> | Total length of distribution (km) | Can be zero. Don't include service connection lines. Estimate or draw a map to scale. Can include decimals (i.e. 450m = 0.45km)                                                                                                       |
|                  | <b>Automated Monitoring</b>       | <b>Disinfection residual</b>                                                                                                                                                                                                          |
| <b><u>22</u></b> | Cross connection control program  | Cross connection program includes enforcement of an ordinance regulating cross connection (i.e. a by-law, code, or standard). Identify whether a cross connection control program is in place or is included in operating procedures. |
| <b><u>23</u></b> | Flushing program                  | EHO will assess whether a flushing program is in place or if it's included as part of regular operating procedures                                                                                                                    |
| <b><u>24</u></b> | Residual Disinfection             | See #16                                                                                                                                                                                                                               |
| <b><u>25</u></b> | Distribution Map Attached         | A distribution map is required to be on record. Include applicable components listed in the example                                                                                                                                   |
| <b><u>26</u></b> | Name (Storage)                    | Enter "No Storage" if there is none                                                                                                                                                                                                   |
| <b><u>27</u></b> | Construction Material             | Select material of storage tank from list                                                                                                                                                                                             |
| <b><u>28</u></b> | Volume                            | Enter the volume for each storage tank, not the total of multiple tanks                                                                                                                                                               |
| <b><u>29</u></b> | Turnover Time                     | How many days or hours would the water last in the storage tank if the source was shut off?                                                                                                                                           |
| <b><u>30</u></b> | Mixing                            | Interior of the tank includes mechanical or motorized components to ensure adequate mixing, prevent stagnation, and improve water quality consistency                                                                                 |
| <b><u>31</u></b> | Baffled                           | Interior of the tank includes rigid baffles to ensure adequate mixing, prevent stagnation, and improve water quality consistency                                                                                                      |
| <b><u>32</u></b> | Potable                           | Is the water stored in this tanks safe to drink without additional treatment?                                                                                                                                                         |

**Complete all applicable sections. Incomplete applications may be returned to the applicant resulting in delays**

Sections in gray need to be completed in consultation with the Environmental Health Officer (EHO)

**A. Owners information**

**Type of ownership (select one):** ☐ Sole proprietorship ☐ Partnership ☐ Corporation ☐ Society  
☐ Other: \_\_\_\_\_

|   |                                                       |                                     |                     |
|---|-------------------------------------------------------|-------------------------------------|---------------------|
| 1 | <b>Legal Owner</b> (e.g. Jane Doe or 123456 BC Ltd.): | <b>Common Name of Water System:</b> |                     |
|   | <b>Owner Contact Name:</b>                            | <b>Owner Contact Number:</b>        |                     |
| 2 | <b>Legal Owner Mailing Address:</b>                   | <b>City:</b>                        | <b>Postal Code:</b> |

**B. Operator/Site Information**

**Operator information:**

|                                                                                                                 |              |
|-----------------------------------------------------------------------------------------------------------------|--------------|
| Person in charge (operator):                                                                                    | Phone/Fax:   |
| Position: <input type="checkbox"/> Owner <input type="checkbox"/> Manager <input type="checkbox"/> Other: _____ | Cell:        |
| Water system address:                                                                                           | Email:       |
| City/municipality:                                                                                              | Postal code: |

**Mailing/Billing Information:** ■ same as operator information

|                                       |              |
|---------------------------------------|--------------|
| Mailing address:                      | Phone:       |
| City/municipality: _____ Prov.: _____ | Cell:        |
| Postal code:                          | Owner Email: |

**Directions to Water System (if in Remote Location):**

**C. Type of application**

☐ New facility ☐ Owner change ☐ Months of operation change ☐ Data collection/data update  
☐ Service change ☐ Name change ☐ Status change (closed/re-open)

|                        |                  |
|------------------------|------------------|
| <b>Effective date:</b> | <b>Comments:</b> |
|------------------------|------------------|

Have you operated a water supply system within the Northern Health Authority in the past: ☐ YES ☐ NO

If yes, state the name of the water system:

Will system operate: ☐ Year Round ☐ Seasonal

If seasonal, months of operation: ☐ Jan ☐ Feb ☐ Mar ☐ Apr ☐ May ☐ Jun ☐ Jul ☐ Aug ☐ Sep ☐ Oct ☐ Nov ☐ Dec

**Incomplete applications will not be processed and will be returned to the applicant. Any questions should be directed to the Environmental Health Officer.**

|                                                                                                                                                                          |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Assigned EHO:</b>                                                                                                                                                     | <b>Received:</b> |
| <b>Status:</b> <input type="checkbox"/> Permitted <input type="checkbox"/> Pending <input type="checkbox"/> Approved <input type="checkbox"/> Denied                     |                  |
| <b>Category (Include number of connections):</b> <input type="checkbox"/> WS 1 <input type="checkbox"/> WS 2 <input type="checkbox"/> WS 3 <input type="checkbox"/> WS 4 |                  |
| <b>Signature of the Applicant:</b>                                                                                                                                       | <b>Date:</b>     |
| <b>Approved by EHO/DWO:</b>                                                                                                                                              | <b>Date:</b>     |



**D. Water Systems Information**

# of sources (include backup sources):

# of treatment plants (do not include point-of-use treatment):

# of storage locations (do not include pressure tanks):

**Complete the following sections for each source, treatment plant, and storage location indicated above.**

Does the treatment comply with **4-3-2-1-0** treatment objectives: ☐ Yes ☐ No ☐ Not Required

Required for surface water and groundwater at risk of containing pathogens as per the BC Drinking Water Treatment Objectives (Microbiological)

**3** Subtype: ☐ Municipal ☐ Residential ☐ Water Hauler ☐ Workplace ☐ Mobile Camp ☐ Work Camp ☐ Licensed Care  
☐ Educational ☐ Food ☐ Recreational ☐ Unknown

**4** Governance: ☐ Water Users Community ☐ Strata ☐ Corporation ☐ Partnership ☐ Sole proprietorship (individual)  
☐ Joint (good neighbour) ☐ Municipality ☐ Regional district ☐ Improvement district ☐ School District  
☐ Other local government ☐ Health authority ☐ BC Hydro ☐ BC Parks ☐ BC Ferries ☐ Other provincial  
☐ Federal crown corporation ☐ Aboriginal ☐ Other federal

**Environmental Operators Certification Program Classification and Training**

Has the drinking water system been classified by EOCP: ☐ Yes ☐ No

Water treatment classification: ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Small Water System

Water distribution classification: ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Small Water System

Is the operator certified for this level of classification: ☐ Yes ☐ No ☐ N/A (answered no to above)

If yes, certified operator name: \_\_\_\_\_ EOCP #: \_\_\_\_\_

If no, why:

For small water systems, list trained operator(s) and their training course(s):

Operator(s):

Course(s):

Number of Point of Use (POU) or treatment locations if applicable: \_\_\_\_\_

POU Treatment Description: \_\_\_\_\_

**SOURCE (please select below)**

**If there is more than one source, this section will need to be completed for each source**

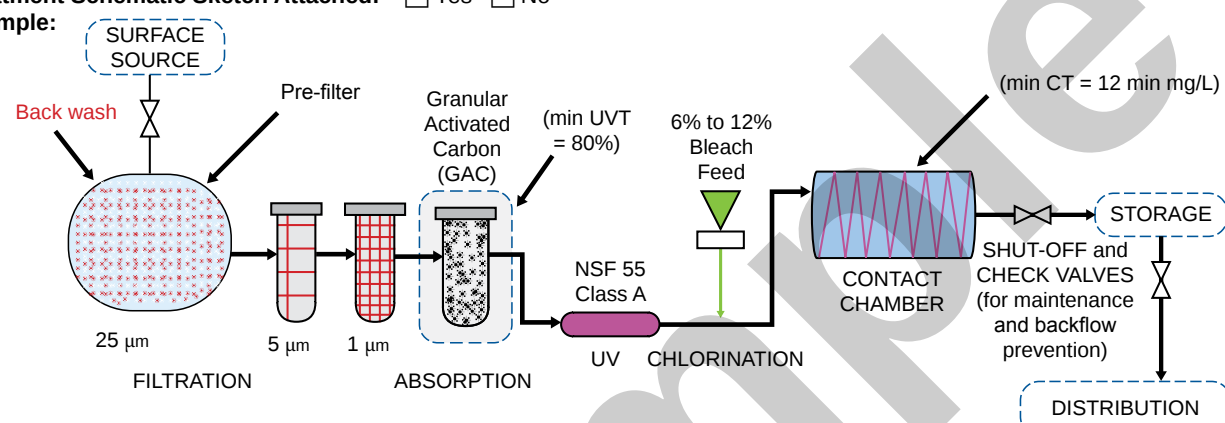
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------|
| <b>Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Address/Location:</b> | <b>City:</b>                                     |
| <b>5 Type:</b> <input type="checkbox"/> Lake <input type="checkbox"/> Flowing <input type="checkbox"/> Spring <input type="checkbox"/> Shallow well <input type="checkbox"/> Deep well <input type="checkbox"/> Infiltration gallery <input type="checkbox"/> Hauled from approved source<br><input type="checkbox"/> Piped from approved source <input type="checkbox"/> Dugout <input type="checkbox"/> Surface runoff <input type="checkbox"/> Rain <input type="checkbox"/> Reclaimed water<br><input type="checkbox"/> Other: _____ |                          |                                                  |
| <b>6 Status:</b> <input type="checkbox"/> Sole <input type="checkbox"/> Primary <input type="checkbox"/> Combined <input type="checkbox"/> Demand <input type="checkbox"/> Standby <input type="checkbox"/> Seasonal <input type="checkbox"/> Inactive                                                                                                                                                                                                                                                                                   |                          |                                                  |
| <b>7 System Source Classification:</b> <input type="checkbox"/> GARP <input type="checkbox"/> GARP-Virus only <input type="checkbox"/> Low risk groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Unknown                                                                                                                                                                                                                                                                                                      |                          |                                                  |
| <b>Source Assessment Completed:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                                  |
| <b>Global Position (degree decimal):</b><br><b>Altitude:</b> <input type="checkbox"/> ft <input type="checkbox"/> m                                                                                                                                                                                                                                                                                                                                                                                                                      |                          | <b>Latitude:</b> North<br><b>Longitude:</b> West |

**SOURCE (optional)**

**If there is more than one source, this section will need to be completed for each source**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------|
| <b>Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Address/Location:</b> | <b>City:</b>                                     |
| <b>Type:</b> <input type="checkbox"/> Lake <input type="checkbox"/> Flowing <input type="checkbox"/> Spring <input type="checkbox"/> Shallow well <input type="checkbox"/> Deep well <input checked="" type="checkbox"/> Infiltration gallery <input type="checkbox"/> Hauled from approved source<br><input type="checkbox"/> Piped from approved source <input type="checkbox"/> Dugout <input type="checkbox"/> Surface runoff <input checked="" type="checkbox"/> Rain <input type="checkbox"/> Reclaimed water<br><input type="checkbox"/> Other: _____ |                          |                                                  |
| <b>Status:</b> <input type="checkbox"/> Sole <input type="checkbox"/> Primary <input type="checkbox"/> Combined <input checked="" type="checkbox"/> Demand <input type="checkbox"/> Standby <input type="checkbox"/> Seasonal <input type="checkbox"/> Inactive                                                                                                                                                                                                                                                                                              |                          |                                                  |
| <b>System Source Classification:</b> <input type="checkbox"/> GARP <input type="checkbox"/> GARP-Virus only <input type="checkbox"/> Low risk groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Unknown                                                                                                                                                                                                                                                                                                                            |                          |                                                  |
| <b>Source Assessment Completed:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                                                  |
| <b>Global Position (degree decimal):</b><br><b>Altitude:</b> <input type="checkbox"/> ft <input type="checkbox"/> m                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          | <b>Latitude:</b> North<br><b>Longitude:</b> West |

**TREATMENT PLANT (please complete all relevant fields below)**

|                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|
| <b>8</b>                                                                                                                                                                                                                                                                                            | Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Address/Location: | City: |
| <b>9</b>                                                                                                                                                                                                                                                                                            | Design Flow Rate:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |       |
| <b>10</b>                                                                                                                                                                                                                                                                                           | Treatment Schematic Sketch Attached: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Example: <div style="text-align: center; margin-top: 10px;">  </div>                                                                                                                                                                                                                                                                                                                                                                     |                   |       |
| <b>11</b>                                                                                                                                                                                                                                                                                           | <b>Filtration Type:</b> <input type="checkbox"/> Prefiltration <input type="checkbox"/> Coagulation/Flocculation <input type="checkbox"/> Slow Sand Filtration <input type="checkbox"/> Rapid Sand Filtration<br><input type="checkbox"/> Pressure Filtration <input type="checkbox"/> Cartridge Filtration <input type="checkbox"/> Microfiltration <input type="checkbox"/> Ultrafiltration <input type="checkbox"/> Nanofiltration<br><input type="checkbox"/> Reverse Osmosis <input type="checkbox"/> Setting/Clarifier <input type="checkbox"/> Flotation <input type="checkbox"/> Other <input type="checkbox"/> None |                   |       |
| <b>12</b>                                                                                                                                                                                                                                                                                           | Other Filtration:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |       |
| <b>13</b>                                                                                                                                                                                                                                                                                           | Smallest Filter/Media Size (microns):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |       |
| <b>14</b>                                                                                                                                                                                                                                                                                           | <b>Chemical Removal Reason:</b> <input type="checkbox"/> AO CDWQG List Chemicals <input type="checkbox"/> MAC/IMAC CDWQG List Chemicals<br><input type="checkbox"/> Both AO and MAC/IMAC List Chemicals <input type="checkbox"/> Other <input type="checkbox"/> None<br><i>AO Aesthetic Objective (I)MAC (Interim) Max. Acceptable Concentration CDWQG Cdn. Drinking Water Quality Guidelines</i>                                                                                                                                                                                                                            |                   |       |
| <b>15</b>                                                                                                                                                                                                                                                                                           | Parameters of Concern:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |       |
| <b>16</b>                                                                                                                                                                                                                                                                                           | Chemical Treatments Processes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |       |
| <b>Primary Disinfection:</b> <input type="checkbox"/> Chloramination <input type="checkbox"/> Chlorination <input type="checkbox"/> Ozonation <input type="checkbox"/> Chlorine Dioxide <input type="checkbox"/> Ultraviolet <input type="checkbox"/> None<br><input type="checkbox"/> Other: _____ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |       |
| <b>Secondary (Residual) Disinfection:</b> <input type="checkbox"/> Chloramination <input type="checkbox"/> Chlorination <input type="checkbox"/> None<br><input type="checkbox"/> Other: _____                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |       |
| <b>Automated Disinfection:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Monitored/Controlled:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |       |
| <b>Global Position (degree decimal):</b><br><b>Altitude:</b> _____ <input type="checkbox"/> ft <input type="checkbox"/> m <b>Latitude:</b> North<br><b>Longitude:</b> West                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |       |

**DISTRIBUTION (please complete all relevant fields below)**

|                               |                                                                                                                                                                          |                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>17</b>                     | Name:                                                                                                                                                                    | City:                                            |
| <b>18</b>                     | Number of Connections:                                                                                                                                                   | <b>19</b> Maximum Population Served in 24 Hours: |
| <b>21</b>                     | Total Length of Distribution Mains (km):                                                                                                                                 | <b>20</b> Typical Population Served in 24 Hours: |
| <b>22</b>                     | Cross Connection Control Program: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                               |                                                  |
| <b>23</b>                     | Flushing Program: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                               |                                                  |
| <b>24</b>                     | Residual Disinfection: <input type="checkbox"/> Chlorination <input type="checkbox"/> Chloramination <input type="checkbox"/> None <input type="checkbox"/> Other: _____ |                                                  |
| Other Secondary Disinfection: |                                                                                                                                                                          |                                                  |

**25** Distribution Map Attached: ☐ Yes ☐ No  
Example:



**RESERVOIRS/STORAGE TANKS (please complete all relevant fields below)** - If there is more than one storage this section will need to be completed for each storage component

|           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                     |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>26</b> | <b>Name:</b>                                                                                                                                                                                                                                                                                                                                                                   | <b>Location:</b>                                                                                                                                                                                                                                                                    |
|           | <b>Type:</b> <input type="checkbox"/> Elevated Tank <input type="checkbox"/> Ground Level <input type="checkbox"/> Underground <input type="checkbox"/> Uncovered                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                     |
| <b>27</b> | <b>Construction Material:</b> <input type="checkbox"/> Concrete <input type="checkbox"/> Fiberglass <input type="checkbox"/> Aluminum <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Epoxy Coated Steel <input type="checkbox"/> Wood<br><input type="checkbox"/> Other: _____                                                                              |                                                                                                                                                                                                                                                                                     |
|           | <b>Construction Date:</b> _____                                                                                                                                                                                                                                                                                                                                                | <b>28 Volume:</b> _____ <input type="checkbox"/> m <sup>3</sup> <input type="checkbox"/> litres <input type="checkbox"/> Imp <input type="checkbox"/> gal <input type="checkbox"/> US <b>29 Turnover Time:</b> _____ <input type="checkbox"/> hours / <input type="checkbox"/> days |
|           | <b>Security:</b> <input type="checkbox"/> Covered <input type="checkbox"/> Enclosed <input type="checkbox"/> Hatch is sealed <input type="checkbox"/> Hatch is locked <input type="checkbox"/> Vents are screened <input type="checkbox"/> Security Fencing<br><input type="checkbox"/> Security Fencing <input type="checkbox"/> Gate locked <input type="checkbox"/> Alarmed |                                                                                                                                                                                                                                                                                     |
| <b>30</b> | <b>Mixing:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                        | <b>Water Level Indicator:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                              |
| <b>31</b> | <b>Baffled:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                       | <b>Separate Inlet at Top:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Separate Outlet at Bottom:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                   |
|           | <b>Outflow By:</b> <input type="checkbox"/> Gravity <input type="checkbox"/> Hydropneumatic or Air Pressure Pumping <b>32 Potable:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                |                                                                                                                                                                                                                                                                                     |
|           | <b>Free Chlorine readout at outlet:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                               | <b>Reservoir Sampling Tap:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                             |
|           | <b>Global Position (degree decimal):</b>                                                                                                                                                                                                                                                                                                                                       | <b>Latitude:</b> North                                                                                                                                                                                                                                                              |
|           | <b>Altitude:</b> _____ <input type="checkbox"/> ft <input type="checkbox"/> m                                                                                                                                                                                                                                                                                                  | <b>Longitude:</b> West                                                                                                                                                                                                                                                              |

**RESERVOIRS/STORAGE TANKS (please complete all relevant fields below)** - If there is more than one storage this section will need to be completed for each storage component

|                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name:</b>                                                                                                                                                                                                                                                                                                                                                                   | <b>Location:</b>                                                                                                                                                                                                                                                              |
| <b>Type:</b> <input type="checkbox"/> Elevated Tank <input type="checkbox"/> Ground Level <input type="checkbox"/> Underground <input type="checkbox"/> Uncovered                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                               |
| <b>Construction Material:</b> <input type="checkbox"/> Concrete <input type="checkbox"/> Fiberglass <input type="checkbox"/> Aluminum <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Epoxy Coated Steel <input type="checkbox"/> Wood<br><input type="checkbox"/> Other: _____                                                                              |                                                                                                                                                                                                                                                                               |
| <b>Construction Date:</b> _____                                                                                                                                                                                                                                                                                                                                                | <b>Volume:</b> _____ <input type="checkbox"/> m <sup>3</sup> <input type="checkbox"/> litres <input type="checkbox"/> Imp <input type="checkbox"/> gal <input type="checkbox"/> US <b>Turnover Time:</b> _____ <input type="checkbox"/> hours / <input type="checkbox"/> days |
| <b>Security:</b> <input type="checkbox"/> Covered <input type="checkbox"/> Enclosed <input type="checkbox"/> Hatch is sealed <input type="checkbox"/> Hatch is locked <input type="checkbox"/> Vents are screened <input type="checkbox"/> Security Fencing<br><input type="checkbox"/> Security Fencing <input type="checkbox"/> Gate locked <input type="checkbox"/> Alarmed |                                                                                                                                                                                                                                                                               |
| <b>Mixing:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                        | <b>Water Level Indicator:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                        |
| <b>Baffled:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                       | <b>Separate Inlet at Top:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Separate Outlet at Bottom:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                             |
| <b>Outflow By:</b> <input type="checkbox"/> Gravity <input type="checkbox"/> Hydropneumatic or Air Pressure Pumping <b>Potable:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                   |                                                                                                                                                                                                                                                                               |
| <b>Free Chlorine readout at outlet:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                               | <b>Reservoir Sampling Tap:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                       |
| <b>Global Position (degree decimal):</b>                                                                                                                                                                                                                                                                                                                                       | <b>Latitude:</b> North                                                                                                                                                                                                                                                        |
| <b>Altitude:</b> _____ <input type="checkbox"/> ft <input type="checkbox"/> m                                                                                                                                                                                                                                                                                                  | <b>Longitude:</b> West                                                                                                                                                                                                                                                        |