

Information Requirements Table for MWR Registrations

Application Tracking Number: [Click here to enter text.](#)
 Authorization Number: [Click here to enter text.](#)
 [insert company / project name]

Applicant Summary	
Application Tracking #	
Authorization #	
Applicant / Facility Name	

Ministry of Environment	
Prepared by:	
Title	
Date	

The *Information Requirements Table (IRT) for Municipal Wastewater Regulation (MWR) Registrations* is a tool used by Ministry of Environment staff to document specific guidance and instructions given to a registrant pursuing an exemption from sections 6(2) and (3) of the *Environmental Management Act* to discharge municipal effluent or provide reclaimed water in accordance with the MWR.

Note - this document was developed to capture all the items and complexities concerning municipal wastewater regulation registrations.

Accordingly, for any given application, not all the items will apply and not all required items will warrant detailed discussion of Methods and other concerns.

As part of the Preliminary Application Phase, MOE will discuss with the applicant the items listed in this table to determine what will be required in support of their final application. A tick mark in the "Required" column of the table indicates an information item to be included into the application package as agreed to by both parties or as directed by MOE. Should it be determined that specific Methods will be used to derive this information, this will be specified with a tick mark in the "Methods" column. Specific Methods may not be necessary for applications that will not require a subject matter expert review. In cases where complex impact assessments are to be undertaken, agreement on the Methods used will be required. For simple Methods, the Methods used could be discussed with the applicant in a meeting and noted as agreed to in the table. For more complex Methods, the applicant may be required to submit a "Methods Package" by an agreed date for MOE review, comment and acceptance. Once Methods are accepted by MOE they should be either described in the "Methods" column or a reference made to the document describing the Methods Package.

If required, this document will form part of an Application Instruction Document (AID) which documents application submission requirements for the applicant. The AID is issued by the Director after a preliminary application meeting has occurred.

The MOE will be assessing this application against this table and it is expected that the applicant does the same prior to any preliminary meetings and/or prior to any final submissions. The Ministry will be screening the final received application against the requirements noted in the AID to ensure it is complete before resources are dedicated to a full, detailed review.

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1 SUMMARY REQUIREMENTS - Minimum Submissions for Registration			
Construction & Operation of Wastewater facility <u>prohibited</u> unless in compliance with MWR s. 40, 45-48 & summary requirements below:			
1.1 Registration form [MWR s. 11]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.2 Technical Information Sheet [MWR s. 12]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.3 Detailed Monitoring Program [MWR s. 12, , 86-88, 103, 118, 119]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.4 Receiving Environment EIS includes Construction and Operations [MWR s. 13]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.5 Operating Plan [MWR s. 13, 23]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.6 Commissioning Plan [MWR s. 24]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.7 Contingency Plan [MWR s. 25]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.8 Irrigation Plan – if reclaimed water [MWR s. 26]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.9 QP signed & stamped Design Drawing of treatment and discharge works [MWR s.13]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.10 Site Plan showing all receiving environment monitoring sites, discharge sampling sites and discharge locations [MWR s.13]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.11 Signed & Stamped Certification by QP's (EIS, Design & other requirements) [MWR s. 15]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.12 Municipality notified if required [MWR s. 14]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.13 EOCP Certification of Facility & Operator [MWR s. 47]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.14 Fees [MWR s. 10(2)(c)]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
1.15 Security / Assurance Plan in place if required [MWR s. 27-30]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.16 Full justification within EIS for any requested substitutions or waivers [MWR s. 8]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
2 Proof of Certain Matters [MWR s. 14]			
2.1 Water conservation measures significant to the facility design and required restrictive covenants in place?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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2.2 Approval required by the municipality to construct the facility?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
2.3 Development permit applied for and the municipality notified of the intent to register?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
2.4 Does a local service area bylaw apply and to be included with the Registration?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
2.5 Reclaimed water proposed and notification/approval of a health officer completed?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
3 Environmental Impact Studies [MWR s. 18-22]			
3.1 Provisions for controlling environmental impact during the construction	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.2 Provisions for controlling environmental impact during the operation	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.3 Potential cumulative impacts of the discharge on the receiving environment	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.4 Establishes additional municipal effluent quality requirements if necessary to protect public health or the receiving environment	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
3.5 Establishes pre-discharge receiving environment monitoring locations sampling parameters and frequencies	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.6 Establishes post-discharge receiving environment monitoring locations sampling parameters and frequencies	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.7 Demonstrates the nature of the discharge will not adversely affect public health or the receiving environment	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.8 Addresses the impact on the receiving environment when municipal effluent quality or reclaimed water requirements are met	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.9 Addresses the impact on the receiving environment when municipal effluent quality or reclaimed water requirements are degraded	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.10 Establishes a receiving environment monitoring program that:			

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3.10.1 Provides for at least one control sampling station upstream up gradient or outside the influence of the IDZ	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.10.2 Obtains data to assess the potential impact of the discharge or reclaimed water	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.10.3 Obtains data to ensure that the discharge or reclaimed water does not or will not cause water quality parameters outside the IDZ to fail to meet water quality guidelines	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.10.4 Documents pre-discharge conditions.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
3.11 If seasonal variations are significant in the receiving environment, a discharger must conduct pre-discharge monitoring during the most critical period of the year.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
3.12 If section 42 <i>overflow</i> applies the EIS must identify measures to protect public health and the receiving environment and any treatment needed to protect the designated uses of the receiving water body	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
4 Operating Plan (does not apply to collection system) [MWR s. 22-26]			
4.1 Details the requirements for the proper operation, maintenance and monitoring of the wastewater facility including lift stations	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
4.2 Details the requirements for staff education and certification	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
4.3 Commissioning plan including:			
4.3.1 Operational procedures required to commission the wastewater facility	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
4.3.2 Monitoring required to demonstrate that no adverse environmental impacts result from commissioning	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
4.4 Contingency plan include:			
4.4.1 Emergency procedures for the wastewater facility including lift stations	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
4.4.2 Procedures for notifying a health officer when necessary	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		

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4.4.3 Actions to be taken if municipal effluent quality fails to meet the requirements of this regulation	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
4.4.4 Alternate method of disposal or storage if reclaimed water use is not possible	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
4.5 Irrigation plan for reclaim water that:			
4.5.1 Describes appropriate use including the time of use	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
4.5.2 Specifies maximum application rate and growing season for crops or vegetation	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
4.5.3 Describes the site-specific loading vegetation nutrient and metal limits	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
5 Security and Assurance Plans [MWR s. 28-31]			
5.1 Are security and capital replacement funds or an assurance plan required?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
5.2 Will the submitted proof of security and a capital replacement fund or assurance plan be acceptable to a director?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6 Reliability Category [MWR s. 34-36]			
6.1 A qualified professional must determine, based on an environmental impact study, which reliability category applies to a proposed wastewater facility	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
6.2 Will the design of the wastewater facility meet the component and reliability requirements [MWR Table 1 & s. 36]?	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
7 Pumping Facility Requirements [MWR s. 37]			
7.1 Pumping facilities must include at least 2 pumps with each pump capable of pumping peak design flows	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
7.2 For a 2-pump station will a receptacle be available for a portable generator?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.3 For a multiple pump station, will the station have sufficient capacity to pump peak design flow when the largest pump is out of service?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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7.4 For multiple pump station an on-site generator must be available for standby power	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.5 Standby power must be capable of being activated before the hydraulic capacity of the pump station is exceeded.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
8 Combined Sewers [MWR s. 38]			
8.1 A qualified professional must not design the construction or expansion of a combined sewer system.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
9 Septic Tanks [MWR s. 39]			
9.1 If the wastewater facility is designed using a septic tank:			
9.1.1 The tank must have a hydraulic capacity of at least 2 days` minimum detention time at the design maximum daily flow.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
9.1.2 Is the tank fitted with an effluent filter, a screen or an equivalent measure to protect pumps and prevent discharge of solids and floatables?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.1.3 Is the discharge from a small, remote and seasonal facility and is there a request to waive the requirement of an effluent filter, screen or equivalent measure?	Waiver Requested <input type="checkbox"/> Methods <input type="checkbox"/>		
9.1.4 The septic tank must be accessible for pump out.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
10 Overflows [MWR s. 41-42] The minister may, on written request from a discharger, extend any date in Division 2 – Overflows, and Inflow and Infiltration Requirements			
10.1 For collection systems of less than 10,000 persons, is the system to be designed to prevent overflows during storm or snowmelt events with a less than 5-year return period?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
10.2 For municipal wastewater collection systems greater than 10,000 persons or more where overflows or snow melt events occur more than a 5 year return:			
10.2.1 Is there a liquid waste management plan that contains measures to eliminate overflows?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
10.2.2 Will measures be developed and implemented to eventually eliminate overflows?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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11 Use of Storage or Conveyance Facilities [MWR s. 43]			
11.1 A discharger may not use storage or conveyance facilities to reduce the amount of sewer separation required or	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
11.1.1 the amount of inflow and infiltration reduction required unless the facilities immediately reduce and ultimately prevent the occurrence of combined sewer overflows	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
11.2 If facilities are used for the above and primary and secondary treatment is available the discharger must do all the following:			
11.2.1 provide at least primary treatment for flows greater than 2 times the ADWF;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
11.2.2 use the full secondary capacity of the treatment system;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
11.2.3 combine the primary and secondary municipal effluent prior to discharge;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
11.2.4 maintain a minimum receiving environment-to-discharge dilution ratio of 40:1;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
11.2.5 if disinfection is required, provide adequate excess disinfection capacity to ensure disinfection of the entire discharge flow.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
12 Inflow and Infiltration [MWR s. 44]			
12.1 For collection systems of less than 10,000 persons, maximum average daily flow does not exceed 2 times the ADWF during storm and snow melt events with less than a 5-year return period	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
12.2 For collection systems greater than 10,000 persons or more where maximum average daily flow does exceed 2 times the ADWF during storm and snow melt events with less than a 5 year return:			
12.2.1 A liquid waste management plan that indicates how inflow and infiltration can be reduced	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
12.2.2 The development of a liquid waste management plan or conducting of a study that develops and implements measures to reduce inflow and infiltration	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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12.3 Where reduction below 2 times the ADWF are not possible or cost effective full secondary treatment for entire flow at all times or storage and conveyance facilities	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
13 General Operating Requirements [MWR Part 4, s. 45-50]			
A discharger must not discharge until ensuring that all of the following requirements are met:			
13.1 A qualified professional must design the wastewater facility to consistently meet the requirements of the Regulation or requirements substituted under MWR s. 8	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
13.2 A qualified professional must have undertaken the flow calculation, wastewater facility design and inspection to ensure that the facility will be constructed to meet design criteria	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
13.3 The facility must be classified under the EOCP	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
13.4 Facility must be operated and maintained by persons who have the education experience and qualifications specified in the operating plan and are certified under the EOCP.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
14 Disinfection and Chlorination [MWR s. 52]			
14.1 A discharger must disinfect municipal effluent if necessary to ensure that receiving water or groundwater used for domestic or agricultural water extraction, recreational uses, or aquatic food production meets water quality guidelines	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
14.2 A discharger must not use chlorination to disinfect municipal effluent without authorization from a director unless			
14.2.1 The discharger first considers alternative disinfection Methods and	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
14.2.2 The municipal effluent discharged to surface water is dechlorinated below 0.02 mg/L total residual chlorine before discharge.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
15 Monitoring Facilities, Devices and Requirements [MWR s. 53- 60]			
15.1 Are suitable sampling facilities to be installed for obtaining a sample of the effluent or reclaimed water?	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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15.2 Is a suitable flow measuring device to record for each 24-hour period, the effluent volume discharged to be installed and maintained?	Required <input type="checkbox"/> Methods <input type="checkbox"/> Waiver Requested <input type="checkbox"/>		
15.3 Provide a suitable flow measuring device to record for each 24-hour period the volume of reclaimed water treated and used.	Required <input type="checkbox"/> Methods <input type="checkbox"/> Waiver Requested <input type="checkbox"/>		
15.4 Effluent flow, effluent quality, receiving environment monitoring and quality control data must be submitted as per MWR s. 55 (5)	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
15.5 Sampling schedule and analysis must be undertaken in accordance with MWR s. 56 and 57	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
15.6 Will toxicity monitoring be required for this discharge [MWR s. 58-60]?	Required <input type="checkbox"/> Methods <input type="checkbox"/> Waiver Requested <input type="checkbox"/>		
16 Discharge to Ground [MWR Part 5, s. 68-88]* N/A <input type="checkbox"/> (no discharge to ground)			
*EIS for ground discharge must include assessment of hydrogeological conditions of the area that may be impacted or influenced by the discharge			
16.1 A person must ensure that a discharge of municipal effluent within 300 m of a drinking water source meets Class A effluent requirements [MWR s. 80]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.2 Is subsurface travel time at the point where the effluent surfaces, reaches a property line or is intercepted by a water well at least [MWR s. 72]:			
16.2.1 For class A or B municipal effluent, 6 days	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.2.2 For class C or D municipal effluent, 10 days	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.3 Effluent must not surface, or cause the groundwater table to be raised to the surface [MWR s.73]:			
16.3.1 Within 30 m beyond the disposal site perimeter	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.3.2 More than 30 m beyond the disposal site perimeter if there are no adverse impacts and water quality guidelines are maintained	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.4 A qualified professional must determine the calculated or actual maximum daily flow [MWR s. 74]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.5 A qualified professional may use the actual maximum daily flow to design the wastewater facility if all of the below are applicable:			

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16.5.1 The actual daily flow is equal to or greater than 37 m ³ /d	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.5.2 Water conservation measures are used	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.5.3 A restrictive covenant is placed on each property requiring that water conservation measures are continuously used	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.6 If actual maximum daily flow is used then daily discharge volume monitoring is required.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.7 Class A, B or C effluent must meet the quality requirements set out in MWR Table 3. For class C lagoon systems the TSS level must not exceed 60 mg/L [MWR s. 75]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.8 Class A and B effluent that is discharged to a drainfield must have filtration and monitoring controls (alarm) to prevent solids carrying over into the disposal field.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.9 For class A or B municipal effluent, a discharger must ensure that the minimum unsaturated soil depth is 0.5 m [MWR s. 76]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.10 For class C or D municipal effluent, a discharger must ensure that the minimum unsaturated soil depth for maximum daily flows of			
16.10.1 Less than 37 m ³ /d is 0.75 m	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.10.2 37 m ³ /d or more is 1 m.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.11 Advanced Treatment such that total nitrogen is below 10 mg/l is required for the following locations [MWR s.77]:			
16.11.1 The Abbotsford-Sumas Aquifer in Abbotsford;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.11.2 The Hopington and Langley/Brookwood Aquifers in Langley;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.11.3 The Lower Nechako River Aquifer in Prince George;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.11.4 The Lower Cowichan River Aquifer in Duncan;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.11.5 The Grand Forks Aquifer in Grand Forks;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.11.6 The Merritt Aquifer in Merritt;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.11.7 The Osoyoos West and Osoyoos East Aquifers in Osoyoos;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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16.11.8 The Vedder River Fan Aquifer in Chilliwack;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.11.9 The aquifers stretching from Osoyoos Lake to Tuc-el-Nuit Lake and from Tuc-el-Nuit Lake to Vaseux Lake.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.12 Drainage pipe length (or a chamber distribution system) in each drain fields must be at least the length calculated using MWR Table 4 [MWR s. 78]	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.13 ASTM C33 sand filled trenches may be used to reduce percolation if discharging less than 37m ³ /day of class A or B effluent and percolation rates are less than 2 min per 25 mm	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.14 Flows greater than 37 m ³ /d, if perc rates exceed 20 min per 25 mm, a qualified professional must supervise and ensure construction has not reduced trench wall permeability	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.15 Flows less than 37 m ³ /d if perc rates exceed 20 min per 25 mm trench wall permeability may be reduced if the native soil depth exceeds 1.35 m from the bottom of the field to the level of the water table	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.16 Drainage pipe length may be reduced to a maximum of 40% if actual maximum daily flows (MWR s. 74 (2)) are used and the discharge is class A or B effluent	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.17 Drainfields with deeper, narrower trenches and reduced drainage pipe length (factor of 1/H ^{0.5} or 0.8) may be used for perc rates less than 5 min per 25 mm, flows greater than 37 m ³ /d and cover of at least 0.15 m	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.18 A pressure distribution system is used for drainage pipes fed by a dosing syphon or pump;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.19 Unless a pressure distribution system is used, the drainage pipe is at least 70 mm in diameter;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.20 The drainage pipe cover is at least 0.15 m and meets local frost protection requirements.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.21 A discharger must ensure that visual inspection ports are installed in the drain field.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.22 Drainage pipes are provided in 2 drain fields, each having at least the length of drainage pipe required	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		

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16.23 A third undeveloped drain field is retained as a standby area.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.24 Drain fields are constructed with trenches spaced at least 3 m between the center of each trench OR	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.25 Drain fields are constructed at least 2 m apart if the performance of the drain fields would not be adversely affected and the standby area is at least doubled	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.26 Drainfield trenches are at least 0.6 m in width, with trench bottoms at least 0.3 m below the pipe invert.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.27 All discharges to ground and standby areas meet the setback requirements in MWR s. 82 and Table 5	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.28 A discharger must ensure that subsurface fields, the standby area and a surrounding buffer strip as set out in row 2 ("building drain, buffer strip") of Table 5 are:			
16.28.1 Kept free of buildings or hard surfacing of any kind, and	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.28.2 Are not used for building drains or any activity that may cause damage to the system or interfere with its operation.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.28.3 The wastewater facility itself is a building for the purposes of Table 5.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.29 For the purposes of water well within unconfined aquifer, if, based on a hydrogeological assessment to determine the minimum distance required to protect the water quality of a water well,	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.29.1 The distance from the water well must be extended in accordance with the hydrogeological assessment, or	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.29.2 The maximum daily flow is more than or equal to 37 m ³ /d, the distance may be decreased, if authorized by a director, to a distance of no less than 90 m.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.30 If infiltration basins are to be used as per MWR s. 83 then:			
16.30.1 At least 2 basins must be provided to allow cleaning of one basin while the other is operating and to act as a safety factor for unusual conditions;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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16.30.2 For 2 basin systems, each basin must be capable of accepting all the municipal effluent under annual average rainfall conditions;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.30.3 Subject to Division 1 <i>[General Requirements]</i> , discharge of municipal effluent to an infiltration basin must meet at least class C requirements.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.31 If sand mounds or seepage beds are to be used as per MWR s. 84 then:			
16.31.1 Sand mounds and seepage beds are to be constructed using American Society for Testing and Materials C33 sand to reduce percolation;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.31.2 The discharger must be authorized by a director to use the sand mounds and seepage beds.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
16.32 Monitoring wells must be installed, in sufficient number and orientation, to measure background and receiving environment water quality.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.33 The qualified professional must consider horizontal as well as vertical monitoring well arrays for sampling	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.34 A minimum of 4 monitoring wells per aquifer are required, one of which must be a background monitoring well	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.35 Effluent monitoring and reporting must be undertaken in accordance with MWR s. 86, Tables 6, 7 and 8 and s. 87(2)(3)	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
16.36 For maximum daily flows of 500 m ³ /d or more weekly presence/absence coliform monitoring is required in accordance with MWR s. 87(1)	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17 Discharge to Water [MWR Part 6, s. 89 to 103] N/A <input type="checkbox"/> (no discharge to water)			
17.1 Toxicity monitoring requirements [MWR s. 58-60] for discharges to water other than open marine waters is required unless:			
17.1.1 The discharge quality does not exceed a maximum BOD5 and TSS of 10 mg/L each;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.1.2 The discharge does not exceed a maximum daily flow of 50 m ³ /d;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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17.1.3 The discharge is diluted such that at the outside boundary of the initial dilution zone the dilution ratio exceeds 100:1;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.1.4 A director waives the requirement on the basis that the discharge does not adversely affect the receiving environment.	Required <input type="checkbox"/> Methods <input type="checkbox"/> Waiver Requested <input type="checkbox"/>		
17.2 The edge of the Initial Dilution Zone [MWR s. 91] must be located at least 300 m away from the following:			
17.2.1 Recreational areas; (200 MPN at IDZ)	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.2.2 Aboriginal commercial or recreational shellfish harvesting areas; (14MPN at IDZ)	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.2.3 Domestic or agricultural water intakes;	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.2.4 Any sensitive area requiring protection identified in a notice given by a director.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.2.5 The IDZ may overlap only if the combined effects to not cause water quality parameters outside the combined IDZ to fail to meet WQG.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.3 The Initial Dilution Zone for Marine Waters and Lakes [MWR s. 92] requirements include:			
17.3.1 IDZ calculation as per MWR s. 92 (1)	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.3.2 In embayed marine waters and lakes the IDZ must not extend closer to shore than mean low water	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.3.3 In open marine waters the edge of the IDZ must be located outside of the shallow water zone in which surf will form along the shore.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.4 The Initial Dilution Zone for Streams, Rivers and Estuaries [MWR s. 93] requirements include:			
17.4.1 IDZ calculation as per MWR s.93 (1)	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.4.2 For estuaries the IDZ must not extend closer to shore than mean low water.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.5 The Municipal Effluent Quality Requirements as set out in MWR s. 94 and listed in Table 9, 10, or 11 must be met	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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Information	Requirements	Comments	Location in Final Application
17.6 If the dilution ratio for <u>streams rivers and estuaries is less than 100:1</u> a QP must determine if effluent quality must be better than in MWR Tables 9-11.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.7 If the dilution ratio to streams rivers and estuaries used for recreational or domestic water extraction is <u>less than 40:1</u> a person must not discharge unless all of the following requirements are met:			
17.7.1 The discharge meets advanced treatment requirements; (BOD 10/TSS 10)	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.7.2 No other discharge options are available;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.7.3 The discharge is authorized by a director.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.8 Seasonal discharges or discharges to <u>streams, rivers and estuaries</u> not used for recreational or domestic water extraction may be approved by a director if dilution ratio of > <u>20:1</u>	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.9 Discharge is prohibited if the dilution ratio is less than <u>10:1</u>	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.10 For discharges to <u>marine waters</u> having a maximum daily flow of <u>less than 10 m³/d</u> a discharger must use a septic tank that meets the design requirements in MWR s. 39.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.11 For all lagoon systems the maximum TSS level is 60mg/L	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.12 The following additional requirements are specified if the maximum daily flow is more than or equal to 50m ³ /d [MWR s. 95]			
17.12.1 Flows up to and equaling 2 times the ADWF, treatment and effluent quality requirements determined by daily flow multiples that require secondary treatment	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.12.2 Flows more than 2 times the ADWF during a storm or snowmelt event with a less than 5-year return period must have a LWMP or specific study and implement it	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.12.3 A director may increase the factor to 3 times the ADWF for areas of the province where permafrost or freezing ground conditions require connection of roof drains	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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17.12.4 Director may substitute different phosphorus requirements if the maximum daily flow is more than or equal to 50m ³ /d if specified in an EIS [MWR s. 95(5)]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.12.5 Ammonia discharge standard must be back calculated from the edge of the IDZ if the maximum daily flow is more than or equal to 50m ³ /d [MWR s. 95(6)]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.13 A discharger, unless using a septic tank, must ensure that the number of fecal coliform organisms meets the following requirements as applicable [MWR s. 96]:			
17.13.1 If discharging to shellfish bearing waters the mean or geometric mean must be less than 14/100ml with not more than 10% of the samples exceeding 43/100ml	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.13.2 If discharging to recreational use waters the geometric mean at the edge of the IDZ must be less than or equal to 200/100ml	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.14 Advanced Treatment Requirements (Nutrient Removal) [MWR s. 97] - Unless a director gives notice of a maximum seasonal loading rate in respect of the body of water a discharger must not discharge to the following bodies of water municipal effluent having a total annual average phosphorus content of more than 0.25mg/L:			
17.14.1 The Okanagan Basin	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.14.2 The Christina Lake Basin	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.14.3 The Thompson River at Kamloops	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.14.4 The Cowichan River	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.14.5 The Nicola River at Merritt	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.14.6 The Cheakamus River at Whistler	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.14.7 A person other than a municipality must not discharge into the Okanagan Basin, a municipality must not discharge effluent with greater than mg/L total nitrogen.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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17.15 Discharge to the Saanich Inlet is under a moratorium - discharger required to first conduct an enhanced EIS as recommended by the Saanich Inlet Study [MWR s. 98]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.16 A discharger must not discharge to any of the following areas unless the discharger first conducts an enhanced EIS and a director gives notice that advanced treatment will protect the receiving environment [MWR s. 98]			
17.16.1 Lakes having a surface area of less than 100 ha	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.16.2 The Southern Interior Region surface water	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.16.3 The Interior Douglas Fir Biogeoclimatic Zone surface water	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.16.4 The Ponderosa Pine Biogeoclimatic Zone surface water	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.16.5 The Montane Spruce Biogeoclimatic Zone surface water	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.16.6 The Bunchgrass Biogeoclimatic Zone surface water.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.17 Outfall Requirements [MWR s. 99 to 102]			
17.17.1 Outfalls designed to meet IDZ requirements under this regulation	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.2 Outfalls designed such that air entrapment is prevented.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.3 Adequate weighting is provided to prevent movement from currents, ice or possible entrainment of air	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.4 The outfall is protected from corrosion.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.5 The outfall diffusers are located at a sufficient depth to maximize the frequency that municipal effluent is trapped below the surface of the water.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.6 The outfall diffusers are located to intercept the predominant current and void small currents that tend to move toward the shore	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.7 The outfall diffusers are designed to ensure that each diffuser section will provide at least 10:1 dilution within the IDZ	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.8 The outfall diffusers are designed to ensure that outside the IDZ the discharge does not cause water quality parameters to fail to meet WQG.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		

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Information	Requirements	Comments	Location in Final Application
17.17.9 The outfall diffusers are designed to achieve maximum dilution in a river, stream or estuary located in the channel in which most of the water flows.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.10 A QP must ensure that outfalls are located such that they are protected from wave, boat and marine activity	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.17.11 Outfalls must be located at a depth of at least 40m below mean low water in the Okanagan Basin	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.17.12 Outfalls must be located 10m below mean low water in estuaries, lakes or marine water with a surface area greater than 100ha (1km ³)	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.18 Critical Flow Calculation [MWR s. 100] - outfalls to estuaries lakes or marine waters with a surface area greater than 100ha meet depth, flow and distance requirements	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
17.19 A discharger must ensure that all outfalls are marked on shore with a sign that meets the following requirements [MWR s. 101]:			
17.19.1 The sign must indicate with wording acceptable to a director the length and depth of the outfall	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.19.2 The sign must be at least 1m ²	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.19.3 The colours of the lettering and the background must contrast sufficiently and the sign must be located such that it is clearly visible from both land and water.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
17.20 Effluent quality and quantity must be monitored and reported in accordance with MWR s. 103 and Table 12	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
18 Reclaimed Water [MWR Part 7, s. 104 to 119] N/A <input type="checkbox"/> (no reclaimed water)			
18.1 A person must not provide reclaimed water unless			
18.1.1 written notice of the proposed use of reclaimed water has been given to a health officer at least 60 days before registering or a health officer has approved the use of reclaimed water	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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Information	Requirements	Comments	Location in Final Application
18.1.2 A person may provide reclaimed water without health officer notice or authorization if the use is authorized under a local service area bylaw [MWR s. 105(3)]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.2 If reclaimed water is to be used for indirect potable reuse [MWR s. 106], the provider must			
18.2.1 Conduct an enhanced environmental impact study, having terms of reference established in consultation with a director	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.2.2 Consult with all persons and organizations who may have an interest or duty that may be impacted by the use of the reclaimed water	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.2.3 Be authorized by a director to use the reclaimed water for indirect potable reuse	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.3 Unless a director provides otherwise under Section 8, IDZ are not applicable to reclaimed water used for:			
18.3.1 Stream augmentation	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.3.2 Creating impoundments	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.3.3 Maintaining wetlands or marshes	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.4 A provider of reclaimed water must meet the applicable municipal effluent quality requirements set out in MWR s. 108 and listed in Table 13	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
18.5 Turbidity limits under Table 13 must be met before disinfection of the reclaimed water.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
18.6 A provider of reclaimed water must conduct toxicity testing if an environmental impact study indicates that testing is necessary [MWR s. 58(3)]	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.7 For the purposes of fecal coliform monitoring requirements under MWR Table 13:			
18.7.1 The median value from the results of the last 5 samples for which analyses have been completed, must not be more than the coliform limits specified in Table 13	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		

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Information	Requirements	Comments	Location in Final Application
18.7.2 If irrigating food crops that will be eaten raw, <i>Escherichia coli</i> must be monitored daily and be less than 1 CFU/100 mL or 2 MPN/100 mL	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.8 If the use of reclaimed water is categorized as having greater, moderate or lower exposure potential [MWR s. 109]:			
18.8.1 Reclaimed water is not used for irrigation, or impounded within 30 m of any water well or in-ground reservoir unless a director authorizes a lesser distance	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.8.2 A provider of reclaimed water must ensure that the reclaimed water is not used for irrigation within the 3 days before, and during, the harvesting of crops	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.8.3 A provider of reclaimed water must ensure that windblown spray will not go beyond the property boundary or reach areas accessible to the public	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.8.4 A provider of reclaimed water must ensure that the maximum ground surface slope when applying the reclaimed water is not more than 20%	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.8.5 A provider of reclaimed water must develop information and communication materials and provide copies annually to all users	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.9 If the use of reclaimed water is categorized as having greater exposure potential , to remove viruses the provider must [MWR s. 110]:			
18.9.1 Provide for the chemical addition of a coagulant or polymer, followed by filtration;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.9.2 Provide for 60-day storage after secondary treatment, if	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.9.2.1 Municipal effluent quality requirements are met after storage and treatment,	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.9.2.2 No short circuiting is occurring or likely to occur, and	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.9.2.3 No viruses at levels of concern to a health officer are detected in the reclaimed water;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.9.3 Provide an equivalent form of treatment that is authorized by a director.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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18.10 If the use of reclaimed water is categorized as having greater exposure potential daily fecal coliform testing is required except that:			
18.10.1 Weekly coliform testing may be implemented after an initial 60 days of compliance with the daily fecal coliform quality limit	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.10.2 If fecal coliform is detected, daily testing must be reinstated and 7 consecutive non-detect results must be achieved before weekly testing resumes.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.11 If the use of reclaim waste is categorized as having moderate exposure potential and the reclaimed water is used to [MWR s. 111]:			
18.11.1 Irrigate commercially processed food crops, the crops undergo chemical or physical processing sufficient to destroy pathogens	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.11.2 Irrigate livestock grazing fields,			
18.11.2.1 Milking animals are prohibited from grazing for 6 days after irrigation ends, and	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.11.2.2 Other livestock are prohibited from grazing for 3 days after irrigation ends, unless the meat is inspected under the Meat Inspection Act (Canada).	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.12 If the use of reclaimed water is categorized as having moderate or low exposure potential a provider of reclaim water must [MWR s. 112]:			
18.12.1 Ensure that worker contact with the reclaimed water is minimized	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.12.2 Provide, if frequent worker contact is likely, a higher level of disinfection to a maximum CFU of less than 14/100 mL, or equivalent MPN, based on daily sampling.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.13 A provider of reclaimed water must not provide the reclaimed water for use unless it is first disinfected	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.14 A provider of reclaimed water must ensure that, when distributing reclaimed water, the minimal total chlorine residual at the point of use is maintained at 0.5mg/L unless			
18.14.1 The addition of chlorine will detrimentally impact aquatic flora or fauna	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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18.14.2 At the point of use, fecal coliforms remain below the levels set in Table 13 in section 108, and users are adequately informed regarding appropriate use	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.15 A person must not provide or use reclaimed water unless all of the following are met [MWR s. 114]:			
18.15.1 There is an alternate method of disposing of the reclaimed water that meets the requirements of this regulation or is authorized by a director	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
18.15.2 Treatment processes are built with the minimum number of components specified in the applicable reliability category for the alternate method of disposal	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
18.15.3 If there is no immediate means of conveyance to the alternate disposal method, the wastewater facility has 48 hours' emergency storage outside the treatment system.	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
18.15.4 A director may waive the requirement for an alternate method of disposal for reclaimed water that is not generated from residential development or institutional settings if an alternate method is not required to protect public health or the receiving environment and the wastewater facility has:	Required <input type="checkbox"/> Methods <input type="checkbox"/> Waiver Requested <input type="checkbox"/>		
18.15.4.1 48 hours' emergency storage and the ability to shut down generation of municipal wastewater within 24 hours, or	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.15.4.2 A dedicated storage to hold 20 days of flow, the maximum volume of surplus reclaimed, and storm or snowmelt events	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.15.5 If reclaimed water is discharged from a wastewater facility directly into a wetland, a director may waive the requirement for an alternate method of disposal	Required <input type="checkbox"/> Methods <input type="checkbox"/> Waiver Requested <input type="checkbox"/>		
18.16 Failure to Meet Municipal Effluent Quality Requirements Sec 115	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.16.1 If municipal effluent does not meet municipal effluent quality requirements, a provider of reclaimed water must ensure that the municipal effluent is diverted immediately to			
18.16.1.1 an alternate method of disposal, as provided for in section 114 (1) (a) [alternate disposal or storage], or	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		

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18.16.1.2 emergency storage or a dedicated storage system, as described in section 114 (1) (c) or (2),	Required <input checked="" type="checkbox"/> Methods <input type="checkbox"/>		
18.17 A provider of reclaimed water must not use a dual distribution system to convey reclaimed water unless [MWR s. 117]			
18.17.1 The system has design, construction, maintenance and inspection safeguards to prevent cross connections	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.17.2 The person is certified in cross connection control inspections, conducted for the purposes of controlling and protecting potable water systems	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.17.3 Effluent quality and quantity must be reported in accordance with MWR s. 118 and Table 14	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
18.18 A provider of reclaimed water categorized as having indirect potable use or greater exposure potential must install a continuous monitoring system.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		