

# Onsite Sewerage System

Company Name: \_\_\_\_\_

Planners Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_ E-mail: \_\_\_\_\_

Type: \_\_\_\_\_

System: \_\_\_\_\_

\_\_\_\_\_

Designed for

Client name: \_\_\_\_\_

Located at:

Civic Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

Designed on Date: \_\_\_\_\_

# Property Owner's Declaration

## ***Property Information***

Legal description \_\_\_\_\_

Common Address \_\_\_\_\_  
STREET NUMBER/STREET NAME

\_\_\_\_\_ Lot Size: \_\_\_\_\_ hectares/acres  
CITY / PROVINCE / POSTAL CODE

Property Tax Information:

P.I.D. # \_\_\_\_\_ Folio. # \_\_\_\_\_  
TAX ASSESSMENT ROLL NUMBER

## ***Owner Information***

Legal owner's name \_\_\_\_\_

Owner's mailing address \_\_\_\_\_  
STREET NUMBER/STREET NAME

\_\_\_\_\_ CITY / PROVINCE / POSTAL CODE

Owner's Phone

Work: (\_\_\_\_) \_\_\_\_\_ Fax: (\_\_\_\_) \_\_\_\_\_

Residence: (\_\_\_\_) \_\_\_\_\_ Cell: (\_\_\_\_) \_\_\_\_\_

## ***Building Information***

Type of Facility (check one):  Residence  Other (describe) \_\_\_\_\_

Size of Building:	Residence Living Area	
	FEET <sup>2</sup>	M <sup>2</sup>
Basement		
Main floor		
2nd Floor		
3rd Floor		
<b>Total area</b>		

Other Facility (Total Area)	
FEET <sup>2</sup>	M <sup>2</sup>

<b># of bedrooms</b>	
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**Planned Uses**

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1. If the basement is unfinished, what is its intended use? \_\_\_\_\_
2. Does the basement have plumbing or electrical provisions to add a separate living suite?  Yes  No
3. Do you plan on having a Bed and Breakfast or suite?  Yes  No  
If yes, please provide details: \_\_\_\_\_  
\_\_\_\_\_
4. Do you plan on having an in-sink garbage disposal unit?  Yes  No
5. Do you plan on having a water softener?  Yes  No

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**Other Information**

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- Do or will you have a well?  Yes  No
- If No, source of domestic drinking water is: \_\_\_\_\_
- If Yes, what is its location: \_\_\_\_\_
- Location of neighbouring wells: \_\_\_\_\_
- Are there any covenants or easements on property:  Yes  No

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**Items to be Provided by Owner**

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The following items are to be provided by the Owner prior to the start of a site assessment and the Owner agrees herein to supply them at their expense:

1. Plans and specifications of building, site access and landscaping plans.
2. Plot plan or lot survey
3. Signed contract to authorize planner to begin work
4. Land Title's Search results
5. Reference plans and terms of any covenants or easements
6. Location of all existing services.
7. Copies of any/all registered covenants or easements

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**Declaration Statement**

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I/We, the undersigned declare that I/we are legal owners of the above described property and the information given above is true and accurate for the purpose of planning, designing, constructing and maintaining a Sewerage System for said property, and that any changes, alterations or amendment to this above information will be provided to the "authorized person," as defined in the B.C. *Health Act, Sewerage System Regulation 324/2004*, in writing immediately prior to any installation of a sewerage system.

Signature of Owner(s) \_\_\_\_\_

Date of Declaration: \_\_\_\_\_

\_\_\_\_\_  
PRINT NAME

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
PRINT NAME

\_\_\_\_\_  
SIGNATURE

INSERT

**Contract  
Between Home Owner and  
Authorized Person  
to (Plan/Install, etc.)**

HERE

INSERT

(Health Authority)

**Filing of Sewerage System  
Document**

HERE

# General Summary of the Sewage System

Date: \_\_\_\_\_

Civic address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

## ***Site Assessment and Soil Evaluation Results***

Total Flow Rate: \_\_\_\_\_ G.P.D., \_\_\_\_\_ L.P.D. Based on (*Description*): \_\_\_\_\_

# of Bedrooms \_\_\_\_\_ Total floor area max. \_\_\_\_\_ sq ft, \_\_\_\_\_ sq m

Slope of site (at dispersal area): \_\_\_ % Restrictive layer depth: \_\_\_\_\_ inches, \_\_\_\_\_ cm

Restrictive layer: \_\_\_\_\_

(SEASONAL HIGH WATER TABLE, LOW PERMEABILITY SOIL, OR BEDROCK)

Perk Rate Average: \_\_\_\_\_ min./inch, /2.5 cm OR \_\_\_\_\_ K(fs) mm/day

Soil at depth of infiltration trenches (depth 0 to 30 cm for sand mound):

Soil texture: \_\_\_\_\_ Structure: \_\_\_\_\_

Consistence (rupture resistance): \_\_\_\_\_

Site constraints (S.C. 1-4): \_\_\_\_\_

## **General System Design Parameters**

### ***Tankage (Treatment Method)***

System to be: Type \_\_\_\_\_, Distribution: \_\_\_\_\_

Septic (trash) tank to be: \_\_\_\_\_ Imp. Gallons, \_\_\_\_\_ Litres.

Pump Chamber to be: \_\_\_\_\_ Imp. Gallons, \_\_\_\_\_ Litres.

Treatment Plant to be:

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Treatment capacity: \_\_\_\_\_ Imp. G.P.D., \_\_\_\_\_ L.P.D.

**Distribution Method**

Depth of ASTM C33 sand below infiltration surface to be : \_\_\_\_\_ inches, \_\_\_\_\_ cm.

Total vertical separation: I.S. to restrictive layer: \_\_\_\_\_ inches, \_\_\_\_\_ cm.

Hydraulic Loading Rate (HLR) = Type \_\_\_\_\_ system / \_\_\_\_\_ G/ sq ft/day, \_\_\_\_\_ L/sq m/day

AIS = Flow Rate \_\_\_\_\_ L.P.D. divided by HLR \_\_\_\_\_ L/sq m/day = \_\_\_\_\_ sq m

AIS = Flow Rate \_\_\_\_\_ G.P.D. divided by HLR \_\_\_\_\_ G/sq ft/day = \_\_\_\_\_ sq ft

Distribution area to be: \_\_\_\_\_ laterals of \_\_\_\_\_ L ft, \_\_\_\_\_ L m

total being \_\_\_\_\_ L ft, \_\_\_\_\_ L m

Width of trenches to be: \_\_\_\_\_ inches (\_\_\_\_\_ ft), \_\_\_\_\_ cm

Trenches to be on \_\_\_\_\_ ft, \_\_\_\_\_ m centres, and centre/end (circle one) feed.

Total Area of Infiltration Surface (AIS) = \_\_\_\_\_ sq ft, \_\_\_\_\_ sq m

Pump to be: Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Voltage: \_\_\_\_\_

Orifice Sizing to be: \_\_\_\_\_

Orifice Spacing to be on: \_\_\_\_\_ centres

Piping:

Laterals to be: \_\_\_\_\_

Manifold to be: \_\_\_\_\_

Force Main to be: \_\_\_\_\_

Total Flow Rate: \_\_\_\_\_ U.S. G.P.M. or \_\_\_\_\_ L.P.M.

Lateral Flow Rate: \_\_\_\_\_ U.S. G.P.M. or \_\_\_\_\_ L.P.M.

**Design Rationale:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Observed Soil Conditions

## ***Test Pit Logs***

Date*:		Site:				Logged by:			
TP#		Pit Location:				Slope:			
Soil Horizons ( depths measured in cm / m / in / ft )									
Depth		Colour	Texture	Structure	Rupture resistance (or density)	Coarse gravel (%)	Roots depth & quantity	Mottles depth & quantity	Moisture seepage
from	to								
Notes									
Depth		Colour	Texture	Structure	Rupture resistance (or density)	Coarse gravel (%)	Roots depth & quantity	Mottles depth & quantity	Moisture seepage
from	to								
Notes									

Based on USDA *Field Book for Describing and Sampling Soils* (2002).

\* Date water table measured



# Observed Soil Conditions

## *Test Pit Logs*

Date*:		Site:				Logged by:			
TP#		Pit Location:				Slope:			
Soil Horizons ( depths measured in cm / m / in / ft )									
Depth		Colour	Texture	Structure	Rupture resistance (or density)	Coarse gravel (%)	Roots depth & quantity	Mottles depth & quantity	Moisture seepage
from	to								
Notes									
Depth		Colour	Texture	Structure	Rupture resistance (or density)	Coarse gravel (%)	Roots depth & quantity	Mottles depth & quantity	Moisture seepage
from	to								
Notes									

Based on USDA *Field Book for Describing and Sampling Soils* (2002).

\* Date water table measured

# Percolation Tests

Civic Address: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Address: \_\_\_\_\_

Holes pre-soaked for \_\_\_\_\_ hrs.

Perc. hole #
Location:
min. / inch
min. / inch
min. / inch
min. / inch
Depth: ___ inches, ___ cm

Perc. hole #
Location:
min. / inch
min. / inch
min. / inch
min. / inch
Depth: ___ inches, ___ cm

Perc. hole #
Location:
min. / inch
min. / inch
min. / inch
min. / inch
Depth: ___ inches, ___ cm

Perc. hole #
Location:
min. / inch
min. / inch
min. / inch
min. / inch
Depth: ___ inches, ___ cm

**Average Perc. Rate: \_\_\_\_\_ min/inch or 2.5 cm**

## Permeameter Tests Summary

Client: \_\_\_\_\_

Subject Property Address: \_\_\_\_\_

Permeameter Size:    2"    4"                      Date of Test: \_\_\_\_\_

Permeameter Tube Diameter: \_\_\_\_ cm    Conducted by: \_\_\_\_\_

Test #	Auger Hole Dia. (cm)	Auger Hole Depth (cm)	Stable Rate of Fall (mm/min)	CSS Soil Factor	K(fs) (mm/day)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

**Line up tests results in order from Lowest K(fs) to Highest K(fs)**

**Lowest** 
➔
 **Highest**

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**Circle the selected representative K(fs) for design purposes.**

Note: Be careful about your units. Some SPM values are in cm/day while others are in mm/day. To convert from mm/day to cm/day: divide your result by 10.

INSERT

## **Plot Plan Drawing**

HERE

INSERT

**Dispersal Area  
Detail  
Drawing**

HERE

INSERT

## **Dispersal Area**

(trench/bed/mound, etc.)

## **Side View (Cross Section) Drawing**

HERE

INSERT

## **Specifications of the Sewage System**

(For Type 1 systems, refer to General Summary of the Sewerage System)

HERE

**Please advise homeowner in specifications that dispersal area needs to be protected at all times:**

- **No soils added;**
- **No soils removed;**
- **No soils disturbed; and**
- **No one to drive or park on designated area.**

**Please note that this is critical.**

INSERT

## **As Built Drawing**

HERE



# Planner's Summary of Design Adjustments to Original Design (Gravity Distribution)

Client Name: \_\_\_\_\_ Date: \_\_\_\_\_

Civic Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

Adjustments made to original design: \_\_\_\_\_

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System to be: Type \_\_\_\_\_, Distribution: \_\_\_\_\_

Design Flow Rate: \_\_\_\_\_ U.S. G.P.D. or \_\_\_\_\_ L.P.D.

Package Treatment Plant: \_\_\_\_\_

Distribution Area: \_\_\_\_\_

Width of Trenches: \_\_\_\_\_

Total Area of Infiltration Surface (A.I.S.): \_\_\_\_\_

System on: \_\_\_\_\_ centres.

# Planner's Summary of Design Adjustments to Original Design (Pressure Distribution)

Client Name: \_\_\_\_\_ Date: \_\_\_\_\_

Civic Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

Adjustments made to original design: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

System to be: Type \_\_\_\_\_, Distribution: \_\_\_\_\_

Design Flow Rate: \_\_\_\_\_ U.S. G.P.D. or \_\_\_\_\_ L.P.D.

Package Treatment Plant: \_\_\_\_\_

Distribution Area: \_\_\_\_\_

Width of Trenches: \_\_\_\_\_

Total Area of Infiltration Surface (A.I.S.): \_\_\_\_\_

System on: \_\_\_\_\_ centres.

Pump Installed: \_\_\_\_\_

MAKE

MODEL

Voltage \_\_\_\_\_ Amperage \_\_\_\_\_ Horsepower: \_\_\_\_\_

System Total Dynamic Head (TDH): \_\_\_\_\_

Lateral Flow Rate: \_\_\_\_\_ U.S. G.P.M.

Total Flow Rate: \_\_\_\_\_ U.S. G.P.M.

Dose Volume Set at: \_\_\_\_\_ U.S. Gallons

Dose Cycle Time: \_\_\_\_\_ min. \_\_\_\_\_ sec.

Pump Test Performed: \_\_\_\_\_ residual head achieved.

Pump Float Off Position: \_\_\_\_\_

High Float Alarm Off Position: \_\_\_\_\_

# Planner's Installation Review Report (Gravity Distribution)

Civic Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

## ***Final Construction Review***

A final construction review of the installed Sewerage System was completed on \_\_\_\_\_ (date). This review included visual observation of the system components and measuring setback distances. Tanks were tested for leaks. No leaks were found in tanks.

Speed leveler in distribution box has been adjusted and set using water test.

Observations: \_\_\_\_\_

\_\_\_\_\_

Installer to complete the following list:

1. Backfill system as per original design.
2. \_\_\_\_\_
3. \_\_\_\_\_
4. Provide Planner with Installer's Letter of Certification when this list is complete.

Based on the results of this review and the completion of the above list by \_\_\_\_\_ R.O.W.P. Installer of \_\_\_\_\_, the above system has been installed and operates in accordance with the design specifications of the BC Sewerage System Standard Practice Manual.

Respectfully Submitted,

\_\_\_\_\_, R.O.W.P.

\_\_\_\_\_  
PRINT NAME

# Planner's Installation Review Report (Pressure Distribution)

Civic Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

## ***Final Construction Review***

A final construction review of the installed Sewerage System was completed on \_\_\_\_\_ (date). This review included visual observation of the system components, testing of the pump system and measuring setback distances. Tanks were tested for leaks and no leaks were found. Floats were set to achieve \_\_\_\_\_ gallons per dose. Pump run time is \_\_\_\_\_ minutes \_\_\_\_\_ seconds.

Observations: \_\_\_\_\_

Installer to complete the following list:

1. Backfill system as per original design.
2. \_\_\_\_\_
3. \_\_\_\_\_
4. Provide Planner with Installer's Letter of Certification when this list is complete.

Based on the results of this review and the completion of the above list by \_\_\_\_\_ R.O.W.P. Installer of \_\_\_\_\_, the above system has been installed and operates in accordance with the design specifications of the BC Sewerage System Standard Practice Manual.

Note: Visual observation of the pump float connections and system testing indicates that the electrical work was performed adequately. However, it is the responsibility of the qualified electrician who performed the electrical work to verify that it conforms to the BC Electrical Code for wet and corrosive environments.

Pump Installed: \_\_\_\_\_

Voltage: \_\_\_\_\_ Amperage: \_\_\_\_\_ Horsepower: \_\_\_\_\_

Residual Head Achieved: \_\_\_\_\_

Pump Float Off Position: \_\_\_\_\_

Pump Draw Down: \_\_\_\_\_

Dose Volume: \_\_\_\_\_

Pump Chamber: \_\_\_\_\_ Imperial G. Volume: \_\_\_\_\_ Imperial G./inch or \_\_\_\_\_ U.S. G./inch

High Float Alarm Off Position: \_\_\_\_\_

Respectfully Submitted,

\_\_\_\_\_, R.O.W.P. \_\_\_\_\_

PRINT NAME

# Sewerage System: Registered Practitioner's Installer's Letter of Certification

Date: \_\_\_\_\_

To: \_\_\_\_\_  
(Authorized Person — ROWP — Planner or Professional)

Re: (Filing or Folio #) \_\_\_\_\_

\_\_\_\_\_  
Civic address

\_\_\_\_\_  
Legal description

From: \_\_\_\_\_ (Registered Practitioner — Installer)

\_\_\_\_\_  
(Business Name)

Please be advised that the installation of the sewerage system on the above described property and filing document was completed on \_\_\_\_\_ (DATE), including completion of all listed requirements in the Planner's Installation Review Report.

I was responsible for performing the installation work except for the items being:

1. Electrical permits, wiring, connections and energizing the sewerage system
2. \_\_\_\_\_

I, the undersigned, am a registered practitioner as defined in the *Sewerage System Regulation, BC Reg. 326/2004* and certify that:

1. The above sewerage system has been installed in accordance with standard practice for installation; and,
2. The above sewerage system has been installed substantially in accordance with the plans and specifications provided to me and any written instructions received from the planner/professional subsequent to the original accepted filing document.

# **Sewerage System Operation and Maintenance Plan**

## **Part 1: Operation Plan for Owners and Operators**

### **Introduction**

Civic Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

System completed on (date): \_\_\_\_\_

Onsite wastewater systems require proper operation and maintenance to ensure adequate performance, service life expectancy, and protection of public health and the environment. Pursuant to section 10 of the *BC Sewerage Regulation 326/2004* the owner/user of an onsite wastewater system must ensure it is operated and maintained in accordance with the operation/maintenance plan provided by the designer/planner. In addition, the owner/user is required to keep records of the system inspections and maintenance performed on the system.

The operations and maintenance plan: system inspection and maintenance schedule, contact lists, and system dos and don'ts.

**IMPORTANT:** This system has been designed to service a residence as listed on the general specifications of sewerage system. Therefore, addition of a bedroom or any additional square footage added to house, a suite or use as a bed and breakfast will require alterations to the onsite wastewater system that must be designed by an Authorized Person and filed with the Health Authority.

### **System Operation**

Under the laws of BC, the sewage system that has been installed on the above listed property must be maintained by a Registered Maintenance Provider in accordance with the specifications outlined in this Operations and Maintenance Plan.

## **Cautions and Warnings**

- Garbage disposal unit is NOT to be used with septic systems. A garbage disposal will overload the septic tank, degrade wastewater treatment and decrease drain field life.
- No water softeners, floor drains, roof drains or perimeter drains to drain into wastewater system.
- Irrigation over mound or drain field should be closely monitored. Excessive irrigation infiltrates into and hydraulically overloads system. Hydraulic overload will cause failure in system.
- Structures, roads, paths, parking, swimming pools, and any impervious materials are prohibited from being placed on drain fields. Any of these will cause failure of system.
- Gases within septic tank and pump chamber can be explosive and/or cause asphyxiation. DO NOT enter tank risers or tanks at any time. Lids are to be secured at all times.

## **Dos and Don'ts for Successful Operation**

- DO NOT introduce or put any non-biodegradable substances into the system such as:
  - Chemicals, including paint (do not wash paint brushes inside house)
  - Solvents, antifreeze, gas, herbicides, pesticides
  - Coffee grounds
  - Cigarette butts
  - Disposable diapers
  - Feminine hygiene products
  - Condoms
  - Paper towel, facial tissue, sanitary wipes
  - Cat litter
  - Hair

- DO NOT discharge from water treatment devices including water softeners into system.
- DO NOT use powdered laundry detergent or dish washer soap, liquid soap is acceptable.
- DO NOT flush anything (e.g., Condoms, Q-tips) into system that does not pass through the human body with the only exception being toilet paper.
- DO NOT introduce excessive amounts of fats, oils or grease into system.
- DO NOT drive on disposal system, piping, distribution box or tanks at any time.
- MINIMIZE the use of bleach and cleaning solvents.
- DO NOT use commercial septic tank additives: they are unnecessary, expensive and can impair system performance.
- DO NOT stress system with multiple laundry loads on one day — spread laundry throughout the week.
- DO practice water conservation and ensure that fixtures do not leak.
- DO check toilets for leaks annually by placing dye in tank (food coloring) and leaving it for several hours. The dye should not appear in the toilet bowl.
- DO have a maintenance provider in place to maintain and monitor system.
- DO keep maintenance/ service records at all times. These records are to stay with system (and passed to new owners if property changes ownership).

Please note that a full updated list of registered Maintenance Providers can be obtained from your local Health Authority.



## Part 2: Maintenance Plan for Maintenance Providers

### Introduction

Design Flow Rate: \_\_\_\_\_

Type of System (description): \_\_\_\_\_

The Maintenance Provider is to perform the maintenance outlined below as required:

#### YES TANKS:

- Measure sludge and scum levels in septic tanks and pump chamber. Pump-out and clean as required.
- Clean floats and pump as needed.

#### CONTROL SYSTEM, AND HOUSING:

- Test pump on/off float, the high level alarm float and the audible/ visual alarm to ensure they are operating properly. The pump on/off float is set to provide a pump draw down of \_\_\_\_ inches. The alarm float is set \_\_\_\_ inches above the pump "on" float position. Adjust floats if and when necessary.

#### FILTERS:

- Check effluent filters and clean when required.
- Replace filters as needed.

#### DISPERSAL FIELD: PRESSURIZED

- Check operation, cycle, test residual head.
- Lateral lines to be opened at clean out ends and flushed as required. Initial frequency is once every \_\_\_\_\_ months.
- Inspect observation ports.
- Check pipelines for signs of leakage.

#### DISPERSAL FIELD: GRAVITY

- Inspect observation ports.
- Inspect distribution box (Adjust flow/speed levelers as needed)
- Ensure that surface of dispersal field area is not collecting surface water
- Inspect diversion valve
- Inspect observation ports bi-annually (Observation Port is to observe biomat formation and effluent ponding at the zone of infiltration within the dispersal trench or bed.)

YES VALVES:

Check Hydrotek valve operation.

DISCHARGE MONITORING:

Record flow data, accumulated run time.

## Septic (Trash) Tanks (All Systems)

Septic tank pump out intervals projected to be \_\_\_\_\_ years, with effluent filter inspection and cleaning intervals expected to be \_\_\_\_\_ year(s) (\_\_\_\_\_ months for the first two years), depending on use and influent quality. Tank sludge/ scum depth should be assessed annually at time of effluent filter cleaning.

## Pump, Floats and Alarms

### PRESSURE SYSTEMS ONLY

Annual pump check to include visual inspection, measurement of running amperage, record of run time per standard dose. Visual inspection of floats and manual test of alarm/float operation. Visual Inspection of pump chamber and cleaning as required.

Commissioning run time \_\_\_\_\_ mins, amperage \_\_\_\_\_ amps. Pump chamber "V" value \_\_\_\_\_ inches of depth per U.S. gallon.

Annual flow check to include record of pump starts (from counter) and run time (from pump hour meter) and manual check of counter operation.

## Package Treatment Plants

Treatment plants, operations as per manufacture manual specifications.

### ***R.O.W.P. Disclaimer:***

*I hereby certify that the information provided in this report is accurate and true to the best of my knowledge. I waive any and all responsibility and/or liability for the system problems malfunctions or health hazards that arise from any faulty system components, improper installation, damage resulting from misuse and/or failure to operate and maintain the system in accordance with the operation/maintenance plan.*

Respectfully Submitted,

\_\_\_\_\_, R.O.W.P.

\_\_\_\_\_  
PRINT NAME

# Operation and Maintenance Plan: Source Control Policy

(for Residential Systems with Design Flow Rate of 550 Imperial Gallons/Day or Less)

## Effluent Quantity/Quality Guidelines

The residence is permitted to discharge up to a design flow rate \_\_\_\_\_ Imperial Gallons per day of effluent into the system at a peak flow; however, the average flow to the system over any week period must not exceed \_\_\_\_\_ Imperial Gallons per day (50% of design flow rate).

The system is intended for use with normal residential effluent. There are various quality requirements for the effluent discharged from the home to the system, and it is the owner's responsibility to ensure that these are complied with. It is recommended that owners ensure that their liability insurance covers them for liability associated with discharge of effluent that causes damage to the environment. The following should not be discharged:

1. Any sewage in a volume or flow rate greater than shown above;
2. Any sewage in flow rate exceeding 15.4 Imp. Gallons per minute;
3. Any sewage in flow rate exceeding \_\_\_\_\_ Imp. Gallons per hour (8 times daily design flow rate per hour, e.g.,  $550/24 \times 8 = 183 \text{ IG/hr}$ );
4. Any liquid or vapor having an average temperature higher than 50°C;
5. Any flammable or explosive material;
6. Any garbage;
7. Any metal, plastic, wood or other solid or viscous substance capable of causing obstruction or interference with the proper operation of the sewerage system or treatment process;
8. Any sewage or industrial waste having a pH limit less than six (6.0) or greater than nine and a half (9.5);
9. Any sewage or industrial waste containing any of the following materials in excess of the indicated concentrations:

B.O.D.5	300 mg/L
Suspended solids	350 mg/L
Total sulfide expressed as H <sub>2</sub>	5 mg/L
Phenolic compounds	2 mg/L
Oil and grease	100 mg/L

Total cyanide expressed as HCN	0.2 mg/L
Total copper expressed as Cu	1.0 mg/L
Total chromium expressed as Cr	1.0 mg/L
Total nickel expressed as Ni	1.0 mg/L
Total lead expressed as Pb	1.0 mg/L
Total zinc expressed as Zn	1.0 mg/L
Total cadmium expressed as Cd	.05 mg/L
Total phosphorus expressed as P	15.0 mg/L
Total arsenic	0.5 mg/L
Total mercury	.006 mg/L
Total silver	1.0 mg/L

“B.O.D.5” (denoting biochemical oxygen demand) means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at 20°C, expressed in milligrams per liter.

“pH” means the logarithm of the reciprocal of the weight of hydrogen ions in grams per liter of solution and denotes alkalinity or acidity.

10. Any water or waste containing a toxic or poisonous substance capable of constituting a hazard to humans or animals, or any water or waste containing substances in such concentrations that are not amenable to treatment or reduction by the sewage treatment process employed, or are amenable to treatment only to such a degree that the sewage treatment plant effluent and sludge cannot meet the requirements of any other agency having jurisdiction over discharges from the system, or which would damage the dispersal field soils (this would include such items as excess chlorine bleach, excess sodium, disinfectant cleaners, drain cleaner, photochemicals etc);
11. Any substance that when concentrated in sewage treatment plant, effluent disposal fields, or in sludge, could result in a contaminated site (this would include paints and solvents);
12. Rainwater runoff from the surface or from roofs etc, storm or surface water, water from swimming pools or hot tubs;
13. Grease, oil, solvents etc;
14. Flushing water from water softeners;
15. Output from Garburators; and,
16. It is recommended that owners refer to the information in regard of Onsite wastewater systems, attached.

## Contact List

### ***R.O.W.P. Maintenance Provider***

Company Name: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

Tank, pump out, filter cleaning, under drain line pump out, lateral line flushing, or general service and maintenance of the system.

### ***R.O.W.P. Installer***

Company Name: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

Questions or concerns pertaining to installation.

### ***Package Treatment Plant Supplier***

Company Name: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

Maintenance and servicing of package treatment plants.

***Electrician***

Company Name: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

Questions or concerns regarding electrical components of septic system.

***Tank/Pump Chamber Supplier***

Company Name: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

Questions or concerns regarding concrete septic tanks, pump chambers, risers or distribution boxes.

***Pump and Materials Supplier***

Company Name: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

Questions or concerns regarding pumps, high float alarm or system components. This is the parts supplier.

## Record of Maintenance and System Testing: Results

Insert date at top of column and results in column. Attach additional notes as necessary.

Date					
Septic Tank					
Pump chamber valves, etc.: Visual inspection, test					
Pump chamber: Clean floats/pumps					
Control system and housings, etc.: Visual inspection, check and operate alarms, pumps					
Effluent filter: Visual inspection					
Effluent filter: clean					
Effluent filter: Replace media					
Disposal field: Check operation, check inspection ports for biomat					
Disposal field: Check of Hydrotek valve operation					
Check pipelines for signs of leakage					
Discharge monitoring: Record Flow and accumulated run time					
Renew equipment					
Notes					

INSERT

**Manufacturers'  
Manuals and Warranties**

(Warranties for package treatment plants,  
pumps, floats, valves, etc.)

HERE



INSERT

## **Extra Information and Brochures**

(Example: CRD “Septic Savvy” “How to care for your residential Septic system” Brochure)

HERE

INSERT

**Health Authority  
Letter of Certification**

HERE

# Acknowledgement by Owner

I/We the undersigned are the legal property owners of land and buildings located at

Civic/Common Address: \_\_\_\_\_

\_\_\_\_\_ Or,

Legal Description: \_\_\_\_\_

I/We acknowledge receipt of copies of the following items from the Authorized Person as defined in the *B.C. Sewerage System Regulation 326/2004* pursuant to the construction of the sewerage system at the above location:

- Drawings and specifications of sewerage system as constructed at the location
- Letter of Certification as filed with the Health Authority
- Operation and Maintenance Plan.

I/We acknowledge that I/we have read and understood the operation and Maintenance plan and do hereby agree to operate and maintain the sewerage system as specified in this operations/maintenance plan and in accordance to the filing documents submitted to the Health Authority.

Further, I/we agree that the land and building(s) will be used in accordance with filing documents and that any change or alteration will not be conducted without written approval by a qualified Registered Practitioner.

I/We agree that upon any sale or transfer of the property to another person, we shall inform the new owner of the contents and details of the Operation and Maintenance Plan.

\_\_\_\_\_  
PRINT OWNER'S NAME

\_\_\_\_\_  
PRINT OWNER'S NAME

\_\_\_\_\_  
OWNER'S SIGNATURE

\_\_\_\_\_  
OWNER'S SIGNATURE

DATE: \_\_\_\_\_