

Western Canada Onsite Wastewater Management Association

OWTS Site Evaluation and Design Worksheet Package

This package has been developed as a resource for WCOWMA members to use when performing site evaluation and design for Private Sewage Treatment Systems.

Use of these forms is not required, however ROWPs may find it more expedient to utilize the provided documents rather than to create their own.

Documents are available either in print or electronically for the convenience of the WCOWMA member and may be amended to include the member installer's company logo and information.

Filing Support Documents and Information

This checklist is for the use of the designer/installer and not to be included with the filing.

THIS CHECKIISE I	is for the use of the designer/installer and hot to	be included with the filling
The following site evaluation	on support documents must be included with your filing:	

□ Plot Plan indicating

☐ System drawing – complete drawing of proposed system showing system layout, number of laterals, location of tank, feet of lift.

☐ Soil laboratory analysis reports

The following documents will provide valuable information on which to base the system design. These documents should be available to the Health Authority upon request. Copies of these documents should be included in the Homeowner's Manual along with a copy of the filing and any support documentation.

☐ Homeowner interview/information sheet

- Description of the development being served characteristics affecting the determination of peak and average wastewater flows to be used in the design and anticipated influent wastewater strength
- Number of occupants
- Number of bedrooms/bathrooms
- Appliances that affect system sizing and design such as, but not limited to: garbage grinders, dog baths, rain showers, steam showers, surround /body spray showers, water softeners, iron filters, reverse osmosis systems, jet tubs, hot tubs
- Additional bathrooms in adjoining buildings plumbing in garage/barn etc.
- Home based business kennels, catering, hairdressing etc.
- Hobbies that affect system sizing and design such as, but not limited to: bear/wine making, canning etc.
- Lifestyle that promotes higher water usage or higher grease/cleaners entering system- entertaining, gourmet cooking, maid service etc.

□ Plot Plan indicating

- Setbacks from all property boundaries, buildings, roads, driveways, and other property improvements existing & proposed
- Landscape positioning of system (north, south, east, west)
- Existing easements
- Wells or proposed well locations on both the subject property and any adjacent properties within 50m (165 ft) or 100m (330 ft) if a lagoon is to be utilized for the proposed system
- Topography of the proposed treatment site(s) OR degree of slope and slope aspect if the site topography is a simple planer slope
- Surface waters, rock outcrops and drainage features
- Swales, depressions & other drainage features which may impact system selection and design
- Soil pit or boring locations with surface elevations
- Location of a permanent bench mark and its elevation
- Outline of available treatment areas

■ Soil Evaluations

- Attach Soils Reports from an accredited laboratory
- Number and size (depth, height, width) of test pits locations must be shown on plot plan
- Test pits will not be less than 300m (12") deeper than the vertical distance required below the proposed soil-based treatment system
- Descriptions of each soil profile investigated
- Identification of the soil horizons
- Identification of the soil colour
- Analysis of the soil texture
- Analysis of the soil structure and consistence for each structure identified
- Identification of any signs of soil compaction
- Identification of any saturated zones, areas of bedrock and near impermeable soil layers or flow restricting horizons
- Vegetation location and type
- Summary of the significant limiting features of the soil profile and site
- Justification of the locations and number of soils profiles investigated
- ☐ All applicable worksheets pressure distribution, field & trench bottom, mound etc.

**Forms and worksheets are available in the through the Western Canada Onsite Wastewater Management Association



FILING DESIGN SUMMARY - PRIVATE SEWAGE

(Please Print)

LEGAL LAND DESCRIPTION												
L.S.D.		1/4 Section	on	Section	TW	P	Rang	Range		West of Meridian		
Lot	Block		Plan	C	County/M.D.		·		GPS Co-c	es		
OR												
Property Address		et/Avenue			City/\	City/Village/Town						
USE OF PROPERTY INFORMATION												
Type of Building		□ Reside	ential		☐ Com	nmercial		0	ther			
Construction Informa	tion	- 1	New build			☐ Renovation	n/Repair					
Number of Bedrooms		Number o	of Occupants		Estin (gall		(Average) Daily Sewage Flow					
Estimated (Peak) Dai	ly Sewage Flo		Anticipated Influent Wastewater Strengt									
System Components											_	
				SITE E	VALUAT	ION DETA	ILS					
Date of Site Evaluation	on Time of	f Day Eva	aluation Pe	erformed	Weather Condition				Name of Certified Laboratory			
Number of soils test p minimum 2	oits –			ire Classificats and soil b	Design Effluent I borehole logs) Loading Rat (gal/sq ft/da							
Soil Texture		Soil St	ructure – s	ee soils log	attached			·				
		P	ROPOS	ED TREA	TMENT	AND DISP	OSAL SY	STEN	4			
Tank Information ☐ Septic ☐ Holding ☐ Packaged Treatme	□ Septic □ Holding											
Tank Size: Working		ns	Dose _		gallons							
Type of measuremen	t used: 🗖 In	nperial	□ U.S.									
Discharge Information	n			De	esign Flow V	/olume						
☐ Pump ☐ Siphor	n			_		gal/min.				Ft	of Head	
Type of measurement used: Imperial U.S.												



Type of System	☐ Disposal Field		☐ Treatment Mound	☐ Other
Sand Layer Area	Layer Area		☐ Gravel – depth (inches)	☐ Chambers – width (feet/inches)_
Total length of perforated pi	pe/chamber (feet)			Number of Runs
Length of Each Run (feet)			Trench width (feet)	Number of Trenches
Total area of trench bottom	(sq ft)			
Pressure Distribution System	n □ Yes □ No	Orifice size		Squirt height
Dosing Demand Time	ed H	High Water	Alarm □ Yes □ No	Effluent Filter

Attach completed soil log reports, soil lab reports, system drawing, site drawing, pressure distribution worksheets, trench bottom worksheets and/or mound worksheets to support your system design & sizing.



PLOT PLAN

Complete a comprehensive site drawing showing the layout including:

- Location and distances of the septic/holding tank/packaged treatment plant from the house or building, any water sources, any bodies of water, property lines, driveways or roadways.
- ✓ Location and distances of the disposal field from the house or building, any water sources, any bodies of water, property lines and driveways or roadways.

Determine benchmarks and tie in elevations to all relevant items on plot plan.



						SYSTEI	M DRAWI	ING					
✓ (Complete	drawing	of propo	sed syste	em, layou	ıt of later	als, posit	ion and l	ocation o	of tank et	:c.		
												<u>'</u>	
Commen	ts:												
													_
												 	_



	НОМЕС	OWNER US	E OF SYSTEM IN	NFORMAT	ION						
Date of Homeowner Into	erview										
Owner/Client Name											
Mailing Address											
Owner/Client Info:	Work Phone			Home Phone							
	Email	Email									
House size	Sq. Ft	Sq. M	Number of bed	drooms	Number of bathrooms						
Water softener	Yes	No									
Iron filter	Yes	No									
Reverse osmosis	Yes	No									
Garburator	Yes	No									
Additional high water use fixtures *	Yes	No									
If yes, please list	Size of tub(s)			Pool dimensions:							
Walk in steam shower	# of standard	heads		# of body sprays							
	# of rain cans										
Other buildings											
Home based business**	Yes	No	If yes, type of b	usiness							
Hobbies	Beer/wine ma	king, cannin	g,								
Lifestyle			oking = excess gr her strength clear		ater						
Location of neighbouring wells											
Any covenants or easements											

*Additional High Water Use Fixtures might include: Jet tubs, hot tubs, pools, steam showers, multi-head showers, rain showers, doggy baths etc.

** Businesses such as hairdressing, dog kennels, catering etc. put a heavier load on onsite sytems and must be considered in the design.



PRIVATE SEWAGE TREATMENT SYSTEM SOIL LOG FORM																	
Owner N	Jama a	r loh T C		PKIV	AIE SEWA	AGE IKE	EAIMENI 51	SIEM SUI	L LOC	FUKM							
Legal La			<i>)</i> .				Plan	Block	Lot		GPS (Coordin	ates				
1094.14		LSD 1/4	Sec	TWP	RG	М	- 1411	2.com	+		Easti						
						+			1			-5					
Aerial Pl	hotos:							Topograp	hy:								
General	Vegeta	tion:						Overall Site Slope %									
								Slope position of system:									
		0 11 0															
Test Hol	e #	Soil Su	bgroup	Parent Ma	erial	D	rainage	De	pth of	Sample 7	#1	Depth	of Samp	ole #2			
Horizon	Depth	r (cm)	Texture	Colour	Gle	Gleyed		Structu	ıre	Consis	tence	Mois	sture	% CF			
		` /				,	Mottled										
															_		
						+									1		
Depth to	Ground	water					Limiting Soil Layer Characteristic, describe										
Depth to	Seasona	ally Satur	ated Soil				Depth to Limiting Soil Layer										
Limiting 1								to Highly Per									
							Берит	- Inginy i Ci		. J Luyer					1		
Key Limit	ing Syst	em Desig	ın Characte	ristic													
Commer	nts - Ju	stify the	e locations	s and numbe	rs of soil	profiles	investigate	ed.									
		,		-			3.1.1.										

