



RECORD OF SEWERAGE SYSTEM

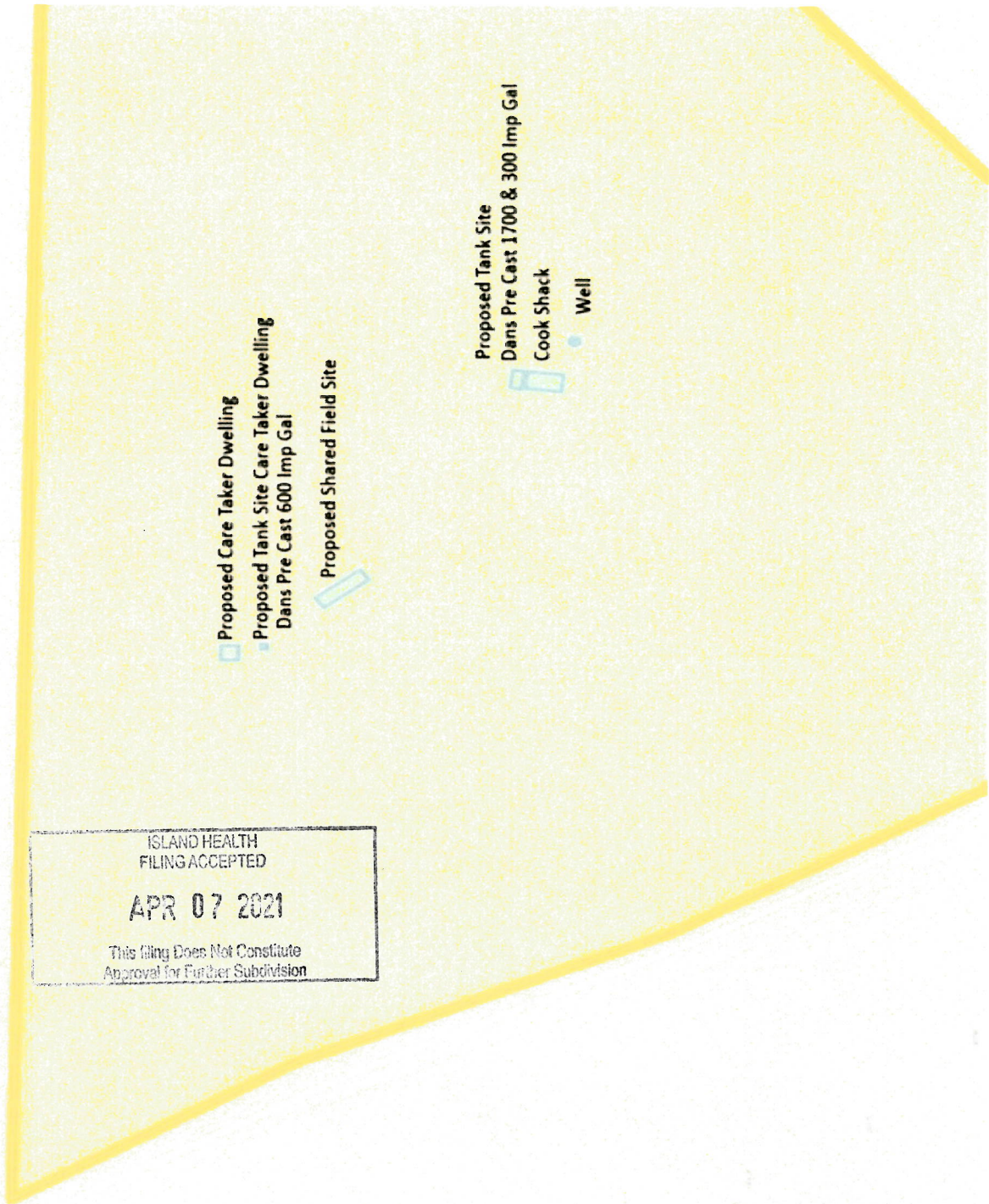
Filing # (OFFICE USE ONLY)

GV21/155

1. Property Information	<input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration		<input type="checkbox"/> Repair	<input type="checkbox"/> Amendment – Original Filing #
	Tax Assessment Roll # 01-764-02279.110			PID # 024 351 041
	Legal Description (Plan, Lot, District Lot, Block Numbers) Lot A, D.L. 88 & 89, GALIANO ISLAND, COWICHAN DISTRICT, PLAN VIP68079			
	Street (Civic) Address or General Location 20300 Porlier Pass Road			City Galiano Island
2. Owner Information	Name of Legal Owner Crystal Mountain Retreat Centre		Mailing Address [REDACTED]	
	Phone [REDACTED]	City [REDACTED]	Prov [REDACTED]	Postal Code [REDACTED]
3. Authorized Person Information	Name of Authorized Person Fred Stevens		Mailing Address [REDACTED]	
	Phone [REDACTED]	City [REDACTED]	Prov [REDACTED]	Postal Code [REDACTED]
	Registration # OW0025		Email [REDACTED]	
4. Structure Information	Sewerage System Will Serve: Kitchen / Dining Hall / Washrooms			
	<input checked="" type="checkbox"/> Single Family Dwelling <input checked="" type="checkbox"/> Other Structure (specify) _____ <input type="checkbox"/> Other Dwelling (specify) _____			
5. Site Information	The sewerage system is designed for an estimated minimum daily domestic sewage flow of (check one)			
	<input checked="" type="checkbox"/> Less than or equal to 9,100 litres <input type="checkbox"/> More than 9,100 litres but less than 22,700 litres			
	Depth of native soil to seasonal high water table or restrictive layer (cm) 150		Information respecting the type, depth and porosity of the soil is attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	GPS Location of System (decimal degrees) Latitude 48.98410 Longitude 123.56892		Horizontal Accuracy (m) 3 <input checked="" type="checkbox"/> Recreational GPS <input type="checkbox"/> Differential GPS	
6. Drinking Water Protection	Will the sewerage system be located less than 30 m from a well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	If yes, attach a professional's report and specify the intended distance _____ (m)			
7. System Information	Distance of proposed sewerage system to the closest body of surface water 80+ (m)			
	Sewerage treatment method <input type="checkbox"/> Type 1 <input checked="" type="checkbox"/> Type 2 <input type="checkbox"/> Type 3			
8. Legal or Regulatory Considerations	<input checked="" type="checkbox"/> Construction of the proposed sewerage system will not conflict with legal instruments registered on the property.		Is this filing submitted as the result of an order from the Health Authority? <input type="checkbox"/> Yes (attach a copy of the order) <input checked="" type="checkbox"/> No	
9. Plot Plan and Specifications	Plot Plan (to scale) and specifications are attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	<input checked="" type="checkbox"/> The plans and specifications are consistent with Standard Practice			
10. Authorized Person's Signature	Source of Standard Practice: <input checked="" type="checkbox"/> Ministry of Health Standard Practice Manual <input type="checkbox"/> Other			
	Signature [REDACTED]		OFFICE USE ONLY	
Date March 31, 2021		Filing Accepted Date April 7, 2021		
		Receipt Number 2104RAB66152		

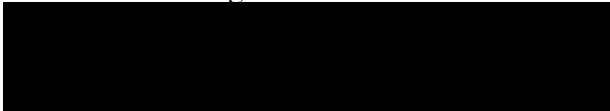


Site Plan



ISLAND HEALTH
FILING ACCEPTED
APR 07 2021
This filing Does Not Constitute
Approval for Further Subdivision

Fred Stevens - ROWP
Galiano Excavating





Health Authority Initial Filing For Construction of Sewerage System

Site investigation report, record of design and specifications

Date: March 31, 2021

Client/Owner/Site Information:

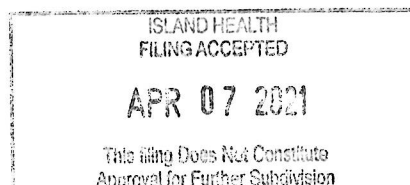
Client Name: <i>Crystal Mountain Retreat Centre</i>	Site Civic Address: <i>20300 Porlier Pass Rd "Lower Plateau Area"</i>
Parcel Identification Number: <i>024 351 041</i>	Legal Description: <i>Lot A, District Lots 88 and 89, Plan VIP68079 and Lot 9, District Lot 90, Plan 31200 Galiano Island, Cowichan District</i>

Property Information:

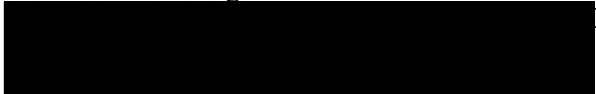
Lot Size: <i>50.65 Acres or 20.49 Hec</i>	Hydrogeologist Site DDF: <i>3252 (see supplements)</i>	Consultant <i>Alan P. Kohut, PEng Senior Hydrogeologist</i>
Potable Water Source: <i>Drilled Well</i>	Well to Sewerage System: <i>Greater than 30 meters</i>	Sewerage System to Foreshore: <i>Greater than 30 meters</i>
Topography: <i>The dispersal system area (and downslope receiving area) has approximately 0% slope perpendicular to the longitudinal centerline of the proposed dispersal system.</i>		

Structures Serviced:

<i>This proposed wastewater system will service a Caretaker Dwelling, 19 Meditation Huts, Tent sites, Main Kitchen, Laundry and Shared Central Washroom. No garburator, no water softeners or water treatment with backflush discharge to the sewerage system. This DDF has been supplied by Alan P. Kohut, PEng Senior Hydrogeologist</i>
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Septic System Design & Specifications for 20300 Porlier Pass Rd



Soil Evaluation:

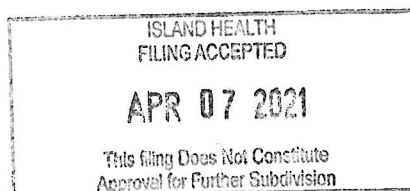
Perc Test Results		Test Pit #1	Test Pit # 2
Hole # 1	4 min/inch	150 cm Fine to Course, Loamy Course Sand No Mottling Dry down to Limiting Bedrock	160 cm Fine to Course, Loamy Course Sand No Mottling Dry down to Limiting Bedrock
Hole # 2	5 min/inch		
Hole # 3	5 min/inch		
Hole # 4	6 min/inch		

Principal Design Specification

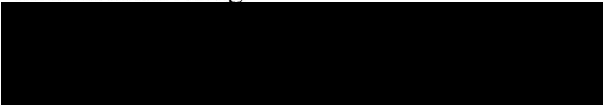
Daily Design Flow	3252 L per Day
Septic Tank at Caretaker Dwelling	Dan's Pre Cast 600 Imp Gal L.P. c/w PL 122 Filter
Septic Tank at Kitchen / Washroom Area	Dan's Pre Cast 1700 Imp Gal L.P. c/w PL 122 Filter
Pump Chamber at Kitchen / Washroom Area	Dan's Pre Cast 300 Imp Gal
Pump	Little Giant WS50HM-20
Field Type	Premier Tech EC 3500 Eco Flo Bio Filter
Piping	100mm CSA Sewer & 50mm CSA SCH 40
Area of Infiltrative Surface	23 m ² (8.5 m x 2.7 m)

Distribution Field Specification

Premier Tech EC 3500 Eco Flo Bio Filter Treatment System on a bed of 19 mm drain rock. 35 mm deep with a bed area of 640 ft² (59.4 m²) bed dimensions 32 ft x 20 ft (9.75 m x 6.01 m). The "Caretaker's Dwelling" 600 Imp. Gal. septic tank will gravity feed into the "Kitchen / Washroom" 1700 Imp Gal septic tank and be pumped up to a shared septic field through a 300 Imp. Gal. Pump Chamber located next to the Kitchen / Washroom site.



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GV21/153

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	Tax Assessment Roll # 01-764-02279.110						PID # 024 351 041	
	Legal Description (Plan, Lot, District Lot, Block Numbers) Lot A, D.L. 88 & 89, GALIANO ISLAND, COWICHAN DISTRICT, PLAN VIP68079							
	Street (Civic) Address or General Location 20300 Porlier Pass Road						City Galiano Island	
2. Owner Information	Name of Legal Owner Crystal Mountain Retreat Centre					Mailing Address 		
	Phone 		City 			Prov 		Postal Code
3. Authorized Person Information	Name of Authorized Person Fred Stevens					Mailing Address 		
	Phone 		City 			Prov 		Postal Code
	Registration # OW0025		Email 					
4. Structure Information	Sewerage System Will Serve: <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Single Family Dwelling <input checked="" type="checkbox"/> Other Structure (specify) _____ <input type="checkbox"/> Other Dwelling (specify) _____ </div>							
	The sewerage system is designed for an estimated minimum daily domestic sewage flow of (check one) <div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Less than or equal to 9,100 litres <input type="checkbox"/> More than 9,100 litres but less than 22,700 litres </div>							
5. Site Information	Depth of native soil to seasonal high water table or restrictive layer (cm) 155				Information respecting the type, depth and porosity of the soil is attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	GPS Location of System (decimal degrees) Latitude 48.98446				Longitude 123.56576			
	Horizontal Accuracy (m) 3				<input checked="" type="checkbox"/> Recreational GPS <input type="checkbox"/> Differential GPS			
6. Drinking Water Protection	Will the sewerage system be located less than 30 m from a well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
	If yes, attach a professional's report and specify the intended distance _____ (m)							
	Distance of proposed sewerage system to the closest body of surface water 80+ _____ (m)							
7. System Information	Sewerage treatment method <input type="checkbox"/> Type 1 <input checked="" type="checkbox"/> Type 2 <input type="checkbox"/> Type 3							
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	<input checked="" type="checkbox"/> The plans and specifications are consistent with Standard Practice Source of Standard Practice: <input checked="" type="checkbox"/> Ministry of Health Standard Practice Manual <input type="checkbox"/> Other							
10. Authorized Person's Signature	Signature _____					OFFICE USE ONLY		
	Date March 31, 2021					Filing Accepted Date April 6, 2021		
						Receipt Number 2104RAB65697		

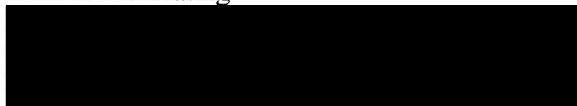
Septic System Design & Specifications for 20300 Porlier Pass Rd



Site Plan



Fred Stevens - ROWP
Galiano Excavating





Health Authority Initial Filing For Construction of Sewerage System

Site investigation report, record of design and specifications

Date: March 31, 2021

Client/Owner/Site Information:

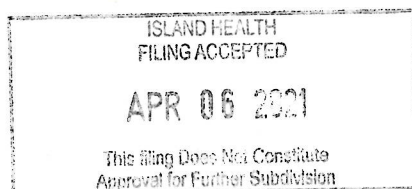
Client Name: <i>Crystal Mountain Retreat Centre</i>	Site Civic Address: <i>20300 Porlier Pass Rd</i> <i>"Upper Ridge Area"</i>
Parcel Identification Number: <i>024 351 041</i>	Legal Description: <i>Lot A, District Lots 88 and 89, Plan VIP68079 and Lot 9, District Lot 90, Plan 31200 Galiano Island, Cowichan District</i>

Property Information:

Lot Size: <i>50.65 Acres or 20.49 Hec</i>	Hydrogeologist Site DDF: <i>284</i> <i>(see supplements)</i>	Consultant <i>Alan P. Kohut, PEng Senior</i> <i>Hydrogeologist</i>
Potable Water Source: <i>Drilled Well (To be Drilled)</i>	Well to Sewerage System: <i>To be Drilled</i>	Sewerage System to Foreshore: <i>Greater than 30 meters</i>
Topography: <i>The dispersal system area (and downslope receiving area) has approximately 0% slope perpendicular to the longitudinal centerline of the proposed dispersal system.</i>		

Structures Serviced:

This proposed wastewater system will service 3 Meditation Huts (No Plumbing), Kitchen, Laundry and Shared Central Washroom. No garburator, no water softeners or water treatment with backflush discharge to the sewerage system. This DDF has been supplied by Alan P. Kohut, PEng Senior Hydrogeologist



Fred Stevens - ROWP
Galiano Excavating



Septic System Design & Specifications for 20300 Porlier Pass Rd



Soil Evaluation:

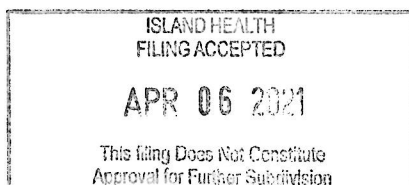
Perc Test Results		Test Pit #1	Test Pit #2
Hole # 1	4 min/inch	155 cm Fine to Course, Loamy Course Sand No Mottling Dry down to Limiting Bedrock	165 cm Fine to Course, Loamy Course Sand No Mottling Dry down to Limiting Bedrock
Hole # 2	5 min/inch		
Hole # 3	5 min/inch		
Hole # 4	6 min/inch		

Principal Design Specification

Daily Design Flow	284 L per Day
Septic Tank	Dan's Pre Cast 600 Imp Gal L.P. c/w PL 122 Filter
Field Type	7 Eljen Modules
Distribution Box	7 Hole Dan's Pre Cast
Piping	100mm CSA Sewer & 50mm CSA SCH 40
Area of Infiltrative Surface	10.4m ² (112 ft ²) 8.52 m x 1.21 m (28 ft x 4 ft)

Distribution Field Specification

7 Eljen modules on a bed of C33 Sand, 35 cm deep with a bed area of 112 ft² (10.4 m²) bed dimensions 28 ft x 4 ft (8.52 m x 1.21 m). The 600 Imp. Gal. septic tank will gravity feed into a distribution box that flows to 7 Eljen Modules.



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