Interior Health

RECEIPT OF RECORD OF SEWERAGE SYSTEM

This receipt acknowledges that the Health Authority has received a completed Record of Sewerage System for the following location:

RECEIPT NUMBER FOR RSS FILING FEE: 10431274

TAX ASSESSMENT ROLL NUMBER: 20-789-08340.010

AUTHORIZED PERSON: Melnychuk, Natalya

CIVIC ADDRESS: 2560 Eagle Bay Rd., Blind Bay, BC

LEGAL DESCRIPTION: Lot 1, Plan KAP57413, Section 30, Township 22, Range 10, Meridian W6 (Kamloops Div of Yale Land District)

EFFECTIVE DATE: 2025-Jun-24

Please note that the system work must be completed and a Letter of Certification filed with the Health Authority within two years of the effective date noted.

EXPIRY DATE: 2027-Jun-24

Interior Health

RECORD OF SEWERAGE SYSTEM

Filing # (OFFICE USE ONLY)

1. Property Information

☒ New Construction ☐ Alteration ☐ Repair ☐ Amendment – Original Filing #

Tax Assessment Roll #: 20-789-08340.010

PID #: 023-503-840

Legal Description (Plan, Lot, District Lot, Block Numbers)
Lot 1, Plan KAP57413, Section 30, Township 22, Range 10, Meridian W6 (Kamloops Div of Yale Land District)

Street (Civic) Address or General Location: 2560 Eagle Bay Rd.

City: Blind Bay

2. Owner Information

Name of Legal Owner: [redacted]

Mailing Address: 2560 Eagle Bay Rd.

Phone: [redacted]

City: Blind Bay

Prov: BC

Postal Code: V0E1H1

3. Authorized Person Information

Name of Authorized Person: Melnychuk, Natalya

Mailing Address: 2262 Eagle Bay Rd

Phone: 7789295396

City: Blind Bay

Prov: BC

Postal Code: V0E1H1

Registration #: OW0921

Email: natalyamelnychuk@gmail.com

4. Structure Information

Sewerage System Will Serve:

☒ Single Family Dwelling ☐ Other Dwelling/Structure *(specify)* _____

The sewerage system is designed for an estimated minimum daily domestic sewage flow of *(check one)*

☒ Less than or equal to 9,100 litres ☐ More than 9,100 litres but less than 22,700 litres

5. Site Information

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 ☒ Yes ☐ No

GPS Location of System *(decimal degrees)* Latitude: 50.907338 Longitude: -119.372989

Horizontal Accuracy *(m)*: 23 ☒ Recreational GPS ☐ Differential GPS

6. Drinking Water Protection

Will the sewerage system be located less than 30 m from a well? ☐ Yes ☒ 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: 60 *(m)*

7. System Information

Sewerage treatment method ☒ Type 1 ☐ Type 2 ☐ Type 3

8. Legal or Regulatory Considerations

☒ 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? ☐ Yes *(attach a copy of the order)* ☒ No

9. Plot Plan and Specifications

Plot Plan (to scale) and specifications are attached ☒ Yes ☐ No

☒ The plans and specifications are consistent with Standard Practice

Source of Standard Practice: ☒ Ministry of Health Standard Practice Manual ☐ Other

10. Authorized Person's Signature

Signature *(email submission does not require a signature)*: Melnychuk, Natalya

Date: 2025-Jun-21

OFFICE USE ONLY

Filing Accepted Date: 2025-Jun-24

Receipt #: 10431274

Health Authority Initial Filing for Construction of Sewerage System:

Site Investigation Report, Record of Design and Specifications

Date: June 21, 2025

Legal Description: Lot 1, Plan KAP57413, Section 30, Township 22, Range 10, Meridian W6 , Kamloops Div of Yale Land District

Street Address: 2560 Eagle Bay Road, Blind Bay B.C.

GPS Location: 50.907338, -119.372989

Property Owner: [redacted]

Summary of Proposed Works:

New Type 1 onsite wastewater system to serve a full-time residence that is 4 bedrooms, 372m^2 with 6 regular residents and a seasonal occupancy of up to 10 people.

Proposed wastewater system:

- Daily Design Flow: 2500L/day.
- Type 1 effluent
- Existing 800IG tank as initial trash tank followed by new 1400 IG single compartment tank (RKS1400LP/1); effluent filter installed in outlet
- D-box gravity distribution trenches.

Site Information:

Total parcel size: 5.635 Acres

Potable Water Source: Municipal

Topography: The proposed dispersal system alignment is on a contour with a 0-5% slope perpendicular to the bed centreline.

General Description: The proposed dispersal area and new tank location is undeveloped. The existing 800IG tank will also be used in sequence with a new tank. Soils in the proposed area for the sewerage system are characterized as favorable sandy loam soils. There are no intermittent water bodies or water coursed located on the land parcel. There are no wells within 30m; however, there is an easement for the CSRD Water Utility and the Shuswap Lake High Water Mark is 60m distance.

Site/Soil Evaluation: conducted June 4, 2025 (see attached drawing for test pit locations)

Native soil in area of proposed dispersal field:

Test pit #1:

0-20cm	Dark brown sandy loam texture with organic content (topsoil)
20-160cm	*Texture:* Sandy Loam *Structure:* mod grade granular *Consistence:* loose *Coarse fragments:20%* *Roots:* common; fine *Colour:* 7.5yr 3/2 *Mottling or Gleying:* none *Moisture: moist*
• The VS limiting condition in TP1 is design limit • Permeameter testing adjacent to TP1 (AH1 &2) was approximately 600mm/day (average between the two tests) in the 'B' Horizon (36cm depth)	

Test pit #2

0-10cm	Dark brown sandy loam texture with organic content (topsoil)
10- 150cm	*Texture:* Sandy Loam *Structure: mod grade blocky* *Consistence:* friable *Coarse fragments:20%* *Roots:* few fine *Colour:* 7.5 yr 5/3 *Mottling or Gleying:* none *Moisture:* dry
• The VS limiting condition in TP2 is the design limit. • Permeameter testing adjacent to TP1 (AH3 &4) was approximately 800 mm/day (average between the two tests) in the B' Horizon (41cm depth)	

Native soil in area of proposed dispersal field: Gravelly Sand

Constraints and design rationale:

- The disposal field will be located on the available area north of the house in the front yard. Soils are primarily sandy loam with a favourable structure and consistency category as per table II-22 and II-23 of the SPMV3. The disposal system shall consist of type 1 treatment using a hydraulic loading rate of 27L/day/m2. Septic tank pre-treatment using the existing 800IGtank (inspected by It Happens Wastewater Inc on April 29, 2025) and used as a primary settling tank followed by a 1400IG single compartment plastic tank with effluent filter at outlet.
- Linear Load: 250L/day/m

Record of Design Information and Calculations:

Source: Wastewater source is a typical residence with volume, strength and constituents expected to fall within domestic sewage parameters of the SSR and residential sewage parameters of SPM Table III-8 (e.g., no garburator, water softeners, unusual usage)

Daily Design Flow and Tank sizing

- Daily Design Flow (DDF): 4-bedroom, 372m^2 house (SPM Table 11-8/use Table 11-9 for seasonal cottage usage)
- Tank size = 2500 L/day x3 = 7500 Liters minimum. Therefore, recommended 1400IG volume tank capacity – use the refurbished existing 800IG tank + 1400IG Canwest single compartment tank in sequence.

Hydraulic Loading Rate (HLR) Selected for Design:

- HLR for sandy loam= 27L/m^2

Minimum Area of Infiltrative Surface (AIS)

- AIS 2500/27 = 92.6m^2

Linear Loading Rate and Calculation of Minimum System Length:

LLR for 'F' sandy loam on a 10-15% slope is 130L/d/m

Minimum 19.2 m dispersal length

Configuration of Dispersal System

5- 0.9cm wide trenches, each 20.6 m in length. Trenches spaced 1.8m center-line to center-line.

0.9mx20.6=92.7m(>AIS)

Construction Specifications and Procedures:

Gravity-fed trenches

- Minimum trench dimensions (x5) 20.6mx0.9m. Centre-feed.
- To prepare the site, remove small trees and vegetation over the dispersal area.
- Scarify the basal infiltrative surface (trench base) and scarify any smeared sidewalls.
- Place 30cm drain rock in trenches; level;
- Install the dispersal piping network; cover with 15cm drain rock and geotextile fabric
- Place cover soil at minimum 15cm depth to a maximum of 30cm
- Install two – 100mm (4") PVC infiltrative surface observation ports
    - Place the bottom of the ports at a depth approximately 5 cm below the infiltrative surface.
    - Include drilled holes or saw cuts to perforate the bottom 15 to 20 cm of the port.
    - Install through the cutouts of the infiltrator chambers
- Ensure 90cm horizontal separation between trench sides

Aggregates:

- Bedding material under the tanks must be free of coarse fragments larger than 10 mm (3/8”). Backfill material for sides and top of tanks must be free of coarse fragments larger than 25mm (1”). Care must be taken to avoid large rock in the native soil from contacting the tanks. Installer may decide to use sorted native material (without large fragments as described above) or screened bedding sand, C33 or pea gravel.
- Bedding material under and over piping must be free of coarse fragments larger than 10 mm (3/8”). Screened bedding sand is highly recommended. Bedding material depth must be at least 25 mm under and 75 mm over piping and must in all cases be adequate to prevent contact of pipe with coarse fragments.

Pipe:

- 100mm (4”) sewer connections must be CSA PVC drain line or better.
- Ensure minimum 2% fall (downward gradient) from sewer service to septic tank
- Install cleanouts every 20m for transport lines from sewer service to first tank and second tank to field.
- Transport line to dispersal area must be 2% grade.
- Laterals must be 76mm (3”) sched 40 PVC. Ensure perforated holes are placed at 4 and 8 o’clock positions.
- Protect pipes from frost, either with adequate soil cover (below frost line – approximately 90cm for transport and force main pipes) or with suitable insulation.

Septic tank:

- New 1400IG single compartment Canwest tank + existing 800IG tank
- Select the excavation elevation to ensure at least 2% fall from sewer system service to the tank and with consideration of riser heights (multiples of 15cm) to ensure the green lids are flush with the desired finished grade.
- Install an effluent filter (polylok PL250) at the outlet of second tank with handle extended to within 15cm (6”) of access lid.
- Tanks to be installed on stable and level foundation subgrade
- Manufacturers backfill specifications must be followed.

Distribution box:

- Distribution box: 7-hole Tuf-Tite
- Ensure D-box invert is a minimum of 5cm higher than invert of perforated pipe.

Miscellaneous specs and installation procedures:

- Ensure 7.5m setback from house and from drinking water line
- Decommission existing dry wells
- Ensure the soil conditions in the dispersal area will promote vertical flow, so that soils will receive effluent without causing any significant horizontal flow or ponding.
    - Assess conditions. Adjust procedures and/or do not install in wet conditions.
    - Prevent excessive disturbance or compaction or smearing of the original soil in the dispersal area and downslope receiving areas; do not back trucks onto area, do not drive

any rubber-tired machinery over infiltrative surfaces or basal interfaces, minimize loads, do not smear soils with the back or bottom of the bucket.
    - Scarify the infiltrative surface effectively, loosen the soil surface thoroughly but do not disturb the underlying soil excessively, scarify only to a shallow depth (approximately 10 cm).
- Ensure no subsequent settling or misalignment of tanks.
    - Provide consistent support of the tanks, ensure the depth of pea gravel or bedding material placed under the tanks is consistent by not over excavating and by making the excavation reasonably level before placing bedding. Then, for flat bottomed tanks, the pea gravel or bedding sand should be exceptionally level (±6 mm, ¼ inch or better).
    - Place water inside the tanks before backfill to secure them in place. This is always recommended but is especially critical if any groundwater is present in the excavation … which could cause shifting or floatation of the tank before or during or after backfill.
    - Place backfill material consistently around tanks and with suitable care to avoid excessive side pressure that could cause the tank to shift.
    - Keep tires on tracks away from the tanks to avoid excessive side pressure.
- Ensure there is no risk of any tank movement, floating, or distortion that could be caused by excessive elevations of groundwater. If there is a risk of highwater table conditions, drain the tank backfill area to an elevation at or below 2/3 of tank height (lower for poly tanks), by using drain rock leading to the foundation perimeter drain, or by installing rock and a piping system that will discharge to other downslope point on the property. If this is not practical, then use anchoring methods approved by the tank manufacturer, and inspected and approved by the Planner. On this site, preliminary assessment indicates no such precautions are necessary, but the planner will attend the site during excavation to confirm.
- Ensure there is no subsequent settling, distortion or misalignment of the inlet and outlet piping for the septic tank, pump chamber, dbox AND provide reliable support for all piping systems.
    - Use suitable backfill material (unsaturated, granular material) under the piping to the full depth of the excavation or trench.
    - Use effective compaction techniques, such as a jumping jack, with soil lifts not exceeding 18 inches depth, or other methods approved by the Planner.
    - An alternative is to use rock fill under the piping to the full depth of the excavation.
- Protect all tanks and piping systems by using bedding material as described in the aggregate specifications section.
- Ensure that sewage or effluent will not leak from tanks or associated piping and that groundwater will not infiltrate tanks or any part of the system. Perform water tight testing of tanks and associated piping. Typically, this is done by installing suitable plugs in inlet piping and outlet piping, then filling tanks with water to 5 cm above tank lid within the risers and confirming leak free condition after 24 hours (as per SPM III- 6.4.3.2).
- Perform flushing and testing of the distribution box, in a manner that reduces the risk of clogging the distribution piping
- Establish appropriate vegetation cover of the dispersal field (grass) or ensure the owner agrees to this task.
- Ensure the dispersal field and tanks are protected during and after construction from traffic, animals, heavy loads, surface or sub surface flows of water. This may require fencing, rock

barriers or other suitable means to restrict access, and may require drainage systems such as swales and/or interceptor drains.

Contact the Planner, Natalya Melnychuk, before starting construction, to schedule a preconstruction meeting, and to make arrangements for construction oversight, final inspection and system commissioning.

Declaration:

These plans and specifications are consistent with standard practice with regard to the Sewerage System Regulation and the Sewerage System Standard Practice Manual of the B.C. Ministry of Health. I have conducted a site evaluation and exercised due diligence. I am a registered on-site practitioner authorized to plan wastewater systems herein.

Proposed Type 1 Trench based Gravity System

GENERAL NOTES

This drawing is issued for RSS.
Drawing is not for construction unless stamped by planner.
Installation to be completed by It Happens Wastewater Inc.

REGISTERED ONSITE WASTEWATER PRACTITIONER
ASTTBC
NATALYA MELNYCHUK
PL
OW0921

PROJECT NAME: 2560 Eagle Bay Rd.

DRAWING TITLE: System Location

Planner: NATALYA_MELNYCHUK_PL_OW0921

CLIENT NAME & ADDRESS

[redacted]

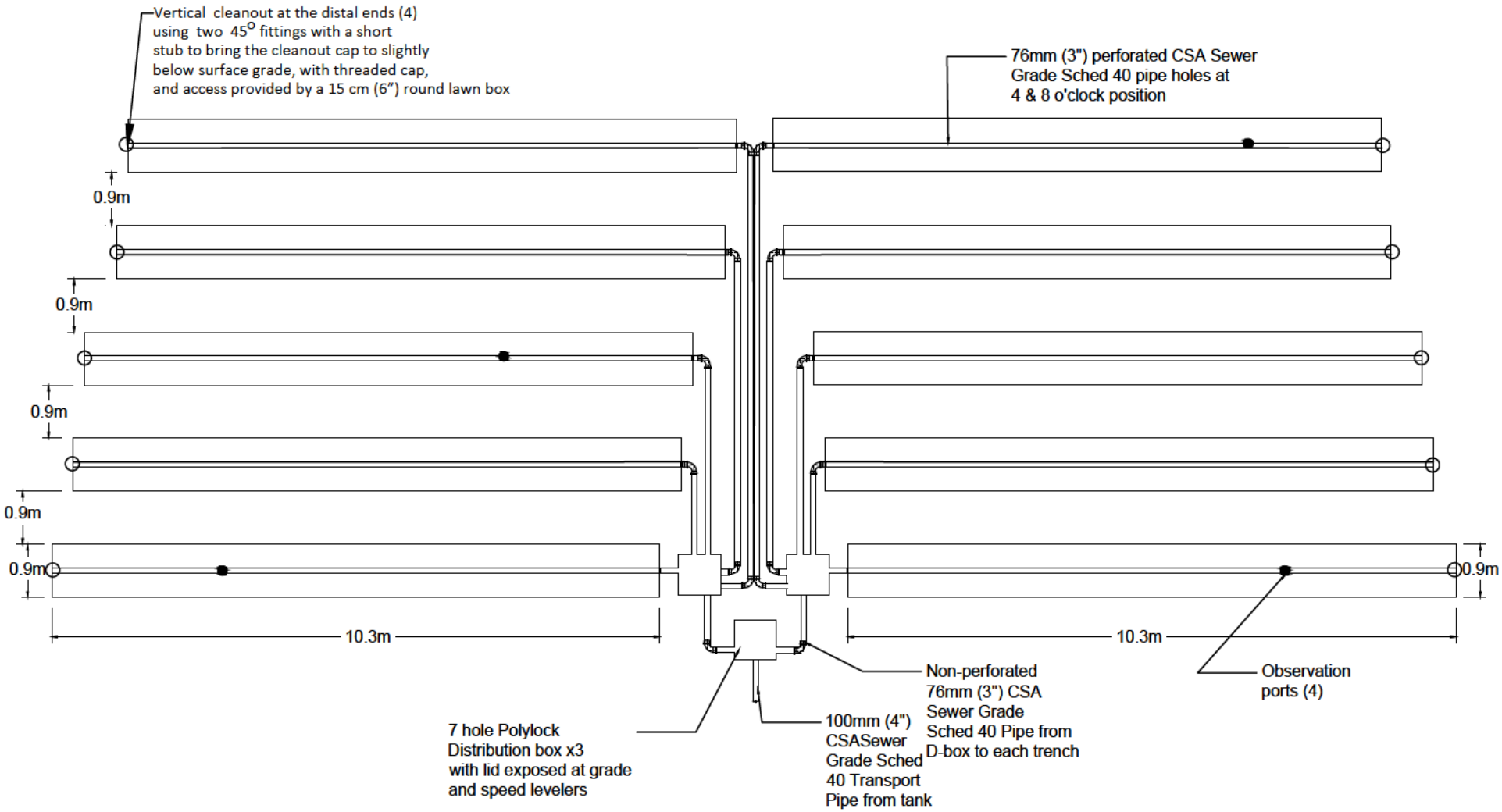
2560 Eagle Bay Rd.
Blind Bay, BC, V0E1H1

Company: It Happens Wastewater Inc.

Blind Bay, B.C.

CONTACT NO- 250 253-2059
E-MAIL : info@ithappen.ca

PROJECT NO: 725	SHEET: NA	SHEET SIZE: A4
DRAWING NO: 1-4	SCALE: 1:4000/1000	
Date: 06-21-2025		
UNIT: Metric		



GENERAL NOTES

This drawing is issued for RSS.
Drawing is not for construction unless stamped by planner.
Contact planner for pre-construction, pre-backfill and final review meeting

REGISTERED ONSITE WASTEWATER PRACTITIONER ASTTBC NATALYA MELNYCHUK PL OW0921

PROJECT NAME: 2560 Eagle Bay Rd.

DRAWING TITLE: Disposal Field Details

Planner: NATALYA_MELNYCHUK_PL_OW0921

CLIENT NAME & ADDRESS

[redacted]

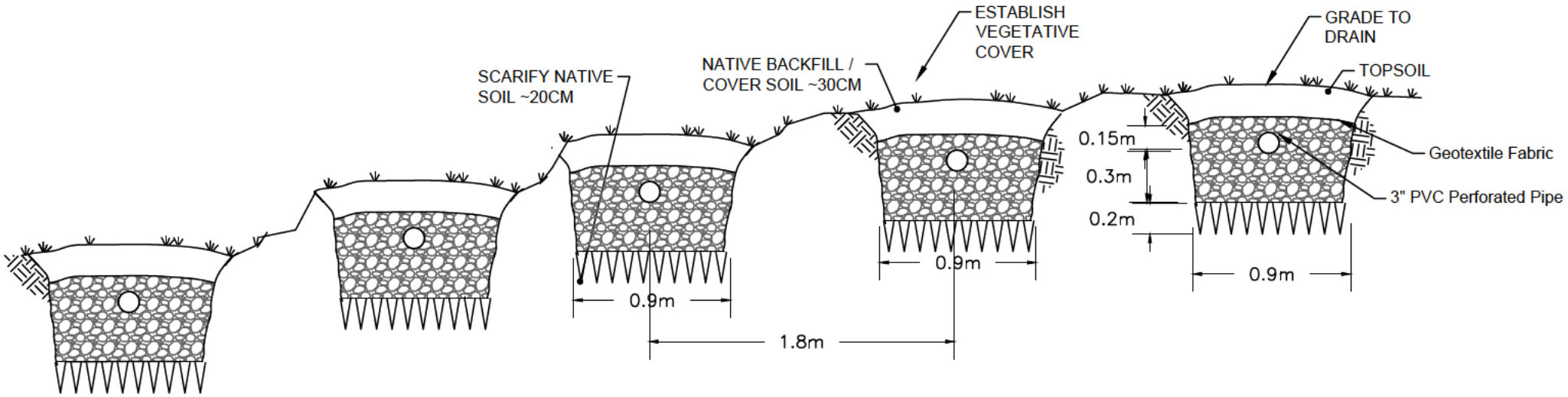
2560 Eagle Bay Rd.
Blind Bay, B.C., V0E1H1

Company: It Happens Wastewater Inc.

Blind Bay, B.C.

CONTACT NO- 250 253-2059
E-MAIL : info@ithappen.ca

PROJECT NO: 725	SCALE: 1:100	SHEET SIZE: A4
DRAWING NO: 2-4	SHEET NO: N/A	
Date: 06/21/2025		
UNIT: Metric		



GENERAL NOTES

This drawing is issued for RSS.
Drawing is not for construction unless stamped by planner.
Contact planner for pre-construction, pre-backfill and review upon completion

REGISTERED ONSITE WASTEWATER PRACTITIONER ASTTBC NATALYA MELNYCHUK PL OW0921

PROJECT NAME: 2560 Eagle Bay Rd.

DRAWING TITLE: Section View Trenches

Planner: NATALYA_MELNYCHUK_PL_OW0921

CLIENT NAME & ADDRESS

[redacted]

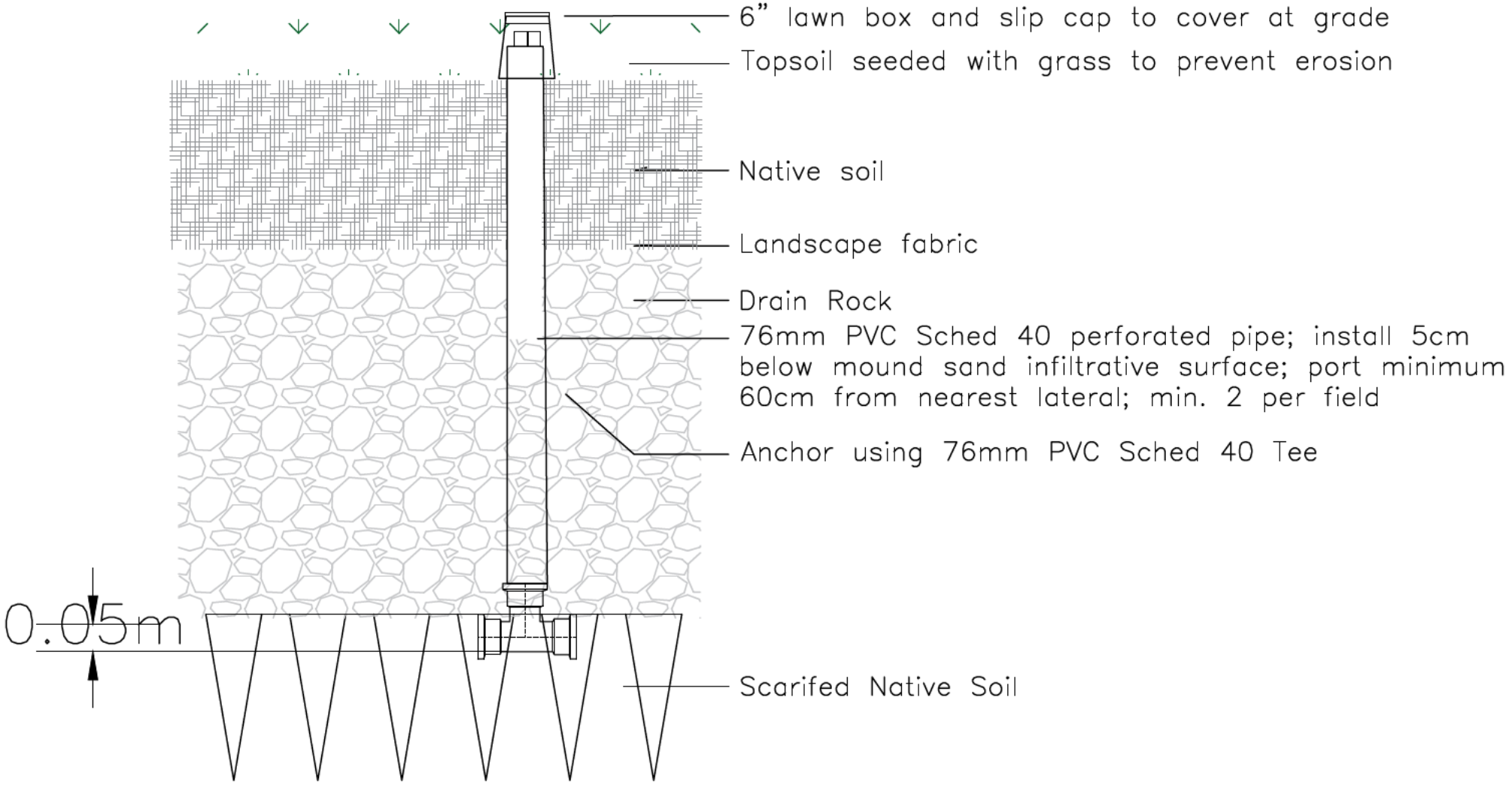
2560 Eagle Bay Rd.
Blind Bay, B.C., V0E1H1

Company: It Happens Wastewater Inc.

Blind Bay, B.C.

CONTACT NO- 250 253-2059
E-MAIL : info@ithappen.ca

PROJECT NO: 725	SCALE: NTS
DRAWING NO: 3-4	SHEET NO: N/A
Date: 06/21/2025	SHEET SIZE: A4
UNIT: Metric	



GENERAL NOTES

This drawing is issued for RSS.
Drawing is not for construction unless stamped by planner.
Contact planner for pre–construction, pre–backfill and review upon completion

REGISTERED ONSITE WASTEWATER PRACTITIONER
ASTTBC
NATALYA MELNYCHUK
PL
OW0921

PROJECT NAME: 2560 Eagle Bay Rd.

DRAWING TITLE: Observation Port

Planner: NATALYA_MELNYCHUK_PL_OW0921

CLIENT NAME & ADDRESS

[redacted]

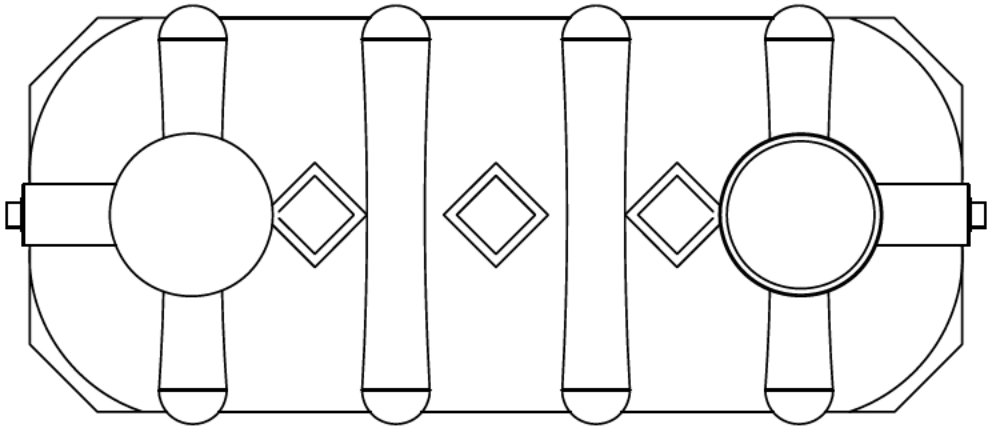
2560 Eagle Bay Rd.
Blind Bay, BC, V0E1H1

Company: It Happens Wastewater Inc.

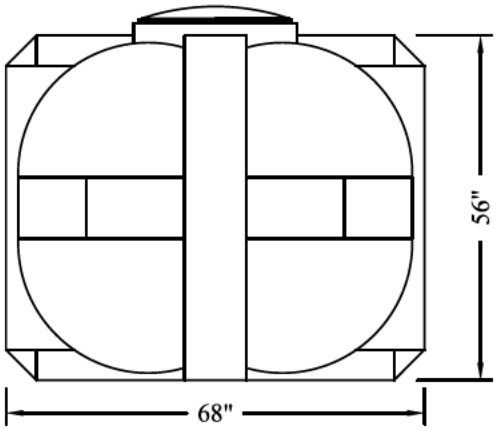
Blind Bay, B.C.

CONTACT NO- 250 253-2059
E-MAIL : info@ithappen.ca

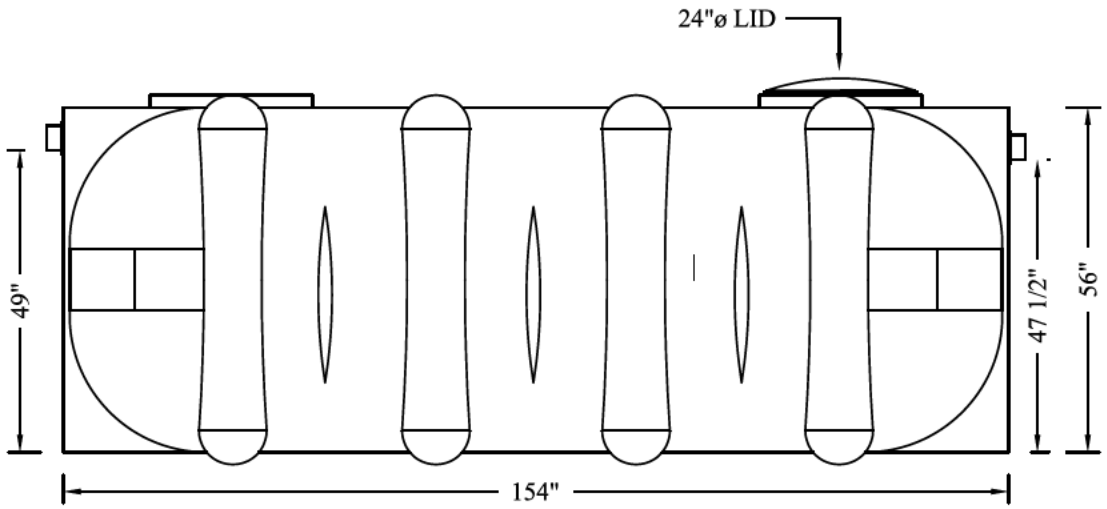
PROJECT NO: 725	SCALE: NTS
DRAWING NO: 4-4	SHEET NO: N/A
Date: 06.21.2025	SHEET SIZE: A4
UNIT: Metric	



TOP VIEW



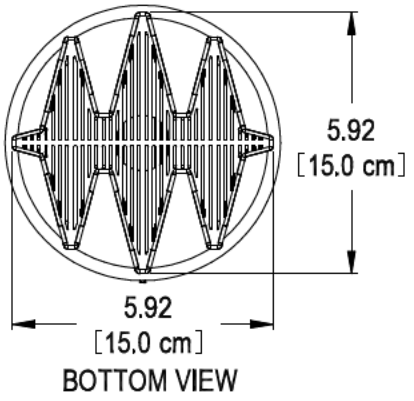
END VIEW

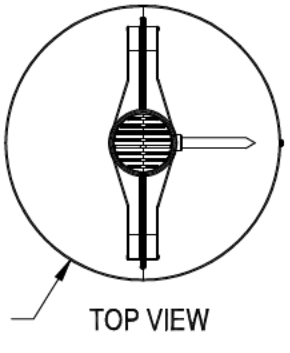


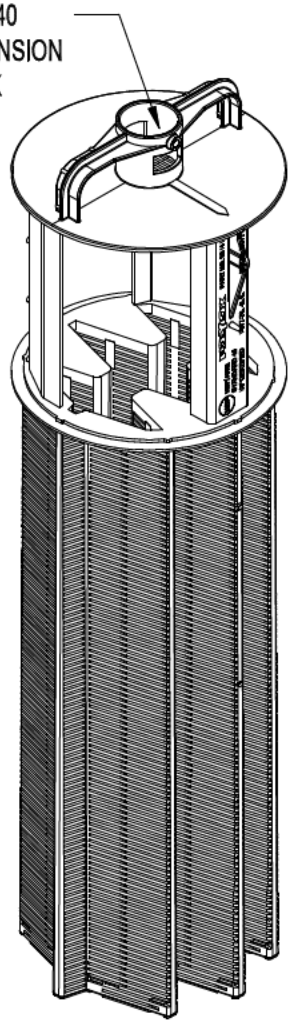
SIDE VIEW

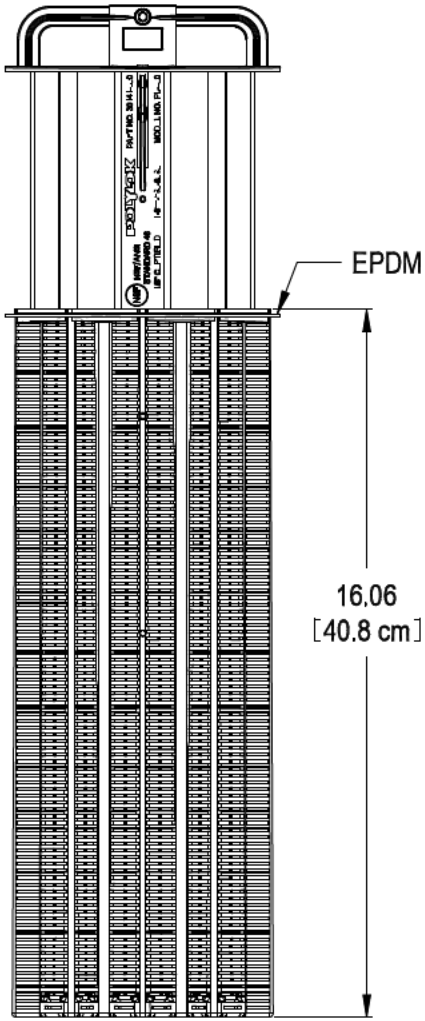
MODEL No. RKS1400LP
VOL. CAP. - 1,400 IGALS
1,680 USGALS
6,364 LITERS

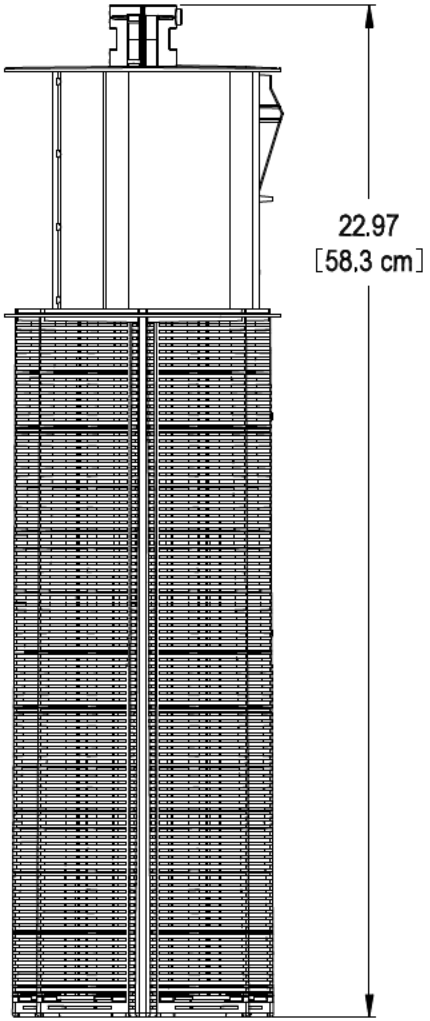
NOTES:	PROJECT MODEL No. RKC1400LP SINGLE CHAMBER SEPTIC TANK
TOTAL VOLUME LITERS: IGALS:	
LENGHT METRIC (mm): IMPERIAL:	CANWEST TANKS & ECOLOGICAL SYSTEMS LTD. www.canwest-tanks.com
DATE: DRAWN BY: L J	REV No. / SCALE: / SHEET OF / DWG REF.











POLYLOK PL-250 FILTER CARTRIDGE
PART NO. - 30141-250
MATERIAL - POLYPROPYLENE
COLOR - WHITE
TOTAL FILTRATION - 250' OF 1/16" SLOTS
(76.20 METERS OF1.59 MM SLOTS)
TOTAL FILTER SURFACE - 550 SQ.IN. (3548.38 SQ.CM.)

It Happens

Septic Design | Installation | Inspection

ithappens.ca 250.253.2059

Home Owners Declaration Form

It Happens Wastewater Incorporated

Please fill out and email to info@ithappens.ca

Blind Bay, B.C

Legal Owner Information as on title (Please provide one copy of the land title search)

Name(s): [redacted]

Mailing Address: 2560-Eagle Bay Road Blind Bay BC V0E 1H1

Phone Number: Home: _____ **Cell:** [redacted]

Site information: Parcel Identification Number (PID#): 023-503-340

Site Address: 2560-Eagle Bay Road Blind Bay BC V0E 1H1

Lot Size (Acres): 5.5 Acres (About)

Legal Description: LOT 1 section 30 Township 22 Range 10 West of the 6th Meridian Kamloops Division Yale District Plan KAP57413

Water Source Information:

1. **Source of Domestic Drinking Water (check one)** Mac Arthur/Reedman Residential CSRD Regional District Water User.

   Municipal ☑ **private well** ☐ **private utility** ☐ **shared well** ☐ **lake** ☐ **stream** ☐

2. **Are there any other domestic drinking water sources in use or abandoned? If yes, describe:**

   No

3. **Please describe all water source location(s):** Main water from CSRD Mac Arthur/ Reedman point system into the house. Automatic sprinklers around house & gardens, 2 water stations.

4. **Please identify the locations of neighbouring wells if known:** none

Lot information

1. Are you aware of any easements/covenants/right-of-ways associated to this property?

   YES

2. Are there any private access agreements between you and your neighbours?

   No

3. Have you ever filled or know of any fill (soil, etc) placed on this property? Please specify type, depth and location.

   No

4. Are you aware of any drainage systems? (not around the house) Please specify type, depth and location.

   No

5. Are you aware of any buried electrical, water, or gas lines? Please specify type, depth and location.

   YES hydro ~~By~~, 3 feet DEPTH: By the drywell, gas line by the driveway to the house south west corner, water to the house, don't know where.

6. Do you have, plan to change, or plan to install a swimming pool, hot tub, workshop, shed, parking area, driveway, landscaping. Please provide details.

   No

Building Information

1. Is this system needed for a new building or an existing building?

   New Building ☐ Existing Building ☒

2. Is there to be a secondary building or suit to be connected to this septic system?

   Yes ☐ No ☒

3. Is there to be any non-residential use, i.e., small business, employees, hobby wine/beer making, dog kennel, horse blanket-washing etc.?

   Yes ☐ No ☒ If yes, type of use:_____

4. Does this location experience long or frequent power outages?

   Yes ☐ No ☒

5. Is this property used full time, part time, or seasonally?

   Full Time ☒ Part time ☐ Seasonally ☐

   If seasonally, which season? _____

6. How many people do you expect to be regularly using the septic system?

   6, 10 in the summer

7. Approximately how many visitors to you expect to have and how often do you expect them? How long do you expect them to stay?

July-Aug 10 people

8. Main residence liveable space (square meters) including finished basement. Does not include garage or deck.

4000 sq

9. Number of bedrooms in the main residence. 4

10. Second building or suit liveable space (square meters). Does not include garage or deck. 0

How many bedrooms in the suit/second bedroom? How many people living there?

11. Do the building(s) have perimeter drainage? Describe.

YES going around the house

12. Is there a garburator installed or planned for? Yes ☐ No ☒

13. Is there a water softener or iron filter installed or planned? Yes ☐ No ☒

Necessary Documents

Please provide us with the following documents in either hard or electronic versions. They are necessary to design and file the system. If you need assistance to obtain them, please contact us as soon as possible.

1. Land title
2. Survey plan (if available)
3. Building plan (if new building or addition)
4. Entire contents of the file held by the Health Authority (if site has or had a septic system)

Declaration Statement

I/We, the undersigned declare that I/we are legal owners of the above mentioned 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 changes alterations or amendment to this above information (before construction of the sewerage system) will be provided to Rodric Van Woerkom, the Authorized Person as defined in the B.C. Health Act, Sewerage System Regulation 324/2004, in writing prior to any installation of a sewerage system.

Name of Owner(s) **Date of signed declaration:** May 14 2025

Print name [redacted] **Print name** [redacted]

Signature [redacted] **Signature** [redacted]