

# Annual Water System Report

Overlander Ski Club

Stake Lake Trails Water System

Facility #14-215-00031

Box 1191 Kamloops, BC, V2C 6H3

250-372-5514

### Contents

Acknowledgements:	2
Overview:	3
Source Protection:	4
Monitoring and Sampling:	4
System Maintenance and Incidents:	5
Emergency Response and Contingency Plan:	6
Long range plans:	6
Appendix A - Sampling Plan	7
Appendix B - Sample Test Results	11
Appendix C - Emergency Response and Contingency Plan	16
Appendix D - Permits	35
Annendix F - Training and Develonment	37

#### Acknowledgements:

The Overlander Ski club (the club) would like to thank the many volunteers and club members who provided countless hours keeping the trails and infrastructure going!

We would also like to thank the Kamloops Sports Legacy fund, without whose financial support this project would not have been completed.

#### Overview:

From our first opening of the water fountain on January 31, 2018, till now, we've seen opportunities to learn, challenges to overcome and many system users.

Over the off-season (March 26, 2018 – December 23, 2018), regular maintenance was conducted and some issues arose which are outlined in detail later in this report.

A request from SD73 to use the restrooms, with drinking water, for their cross country running championships, which happened October 23, 2018, started the process of opening for the 'season' earlier than normal. With approval from our Drinking Water Officer (DWO) we began sampling September 18<sup>th</sup>, 2018, and weekly after that till season close, except as noted in this report.

During the process of getting ready for the SD73 opening, several issues developed and were addressed prior to us receiving approval to provide drinking water for the 23<sup>rd</sup>.

The event completed with-out issue, though after issues arose and were addressed, all prior to opening of the ski season on December 23<sup>rd</sup>, 2018.

From that date, till the 2018/19 season ended March 22<sup>nd</sup>, the club used approximately 64,000 liters of water in the washroom building as a whole (up from 30,000), and approximately 2,500 liters passed through the water fountain, up from 1,000 the season before, without incident.

#### **Source Protection:**

The well head and aquifer for the Stake lake water system resides with-in a Ministry of Forests, Lands and Natural Resource Operations recreational site and with-in a vehicle closure area. This provides protection from potential industrial or agricultural run-off, hazardous material spills, and vehicular fluid leakage that could potentially enter the source otherwise.

At this time, the protections offered through the MoFLNR restrictions on activity, and the club's having an active role in use management seem to suffice. This will be reviewed as or when needed.

The well is secured with a pad-lock, and the possibility of creating a structure will be reviewed.

Cross connection, or the entrance of non-potable water into the treated water supply, is, at this time, a very minimal risk. This is due to the treatment system, and all treated water being located in the same building. All equipment was installed according to manufacturer's specifications along with backflow / syphon protection.

#### Monitoring and Sampling:

All sampling was conducted in accordance to the club's sampling plan (appendix A) and our permit requirements, with the exception of a mid-season metals sample. Due to the late start of the ski season, the opening week was approximately at the time this sample would normally have been taken.

Weekly sampling for coliforms started September 18<sup>th</sup> 2018, with the final sample of the season being submitted March 25<sup>th</sup> 2019.

The club was also required to conduct a total metals analysis prior to start of use and a final sample at the end of the season.

This monitoring ensures the system is operating as designed and that safe water is being provided to our patrons. All analytical results can be found in appendix B.

#### System Maintenance and Incidents:

The system was monitored while not in use over the off season. During this time  $^{\sim}80$ kg of softening salt was added to the system between May  $28^{th}$  2018 and September  $18^{th}$  2018.

On May 28<sup>th</sup>, the system had its UV lamp burn out, as the system was not in operation, it was by-passed. Over the course of the summer months (July – August) maintenance per the manufacturer's specifications was conducted, including, replacing the UV-lamp and pre-filter cartridge, cleaning the crystal sleeve, and chlorination of the system.

September 5<sup>th</sup>, the system was once again chlorinated and flushed to deal with stagnation due to lack of use, and in preparation for a requested use in October.

October 23<sup>rd</sup>, the restrooms were opened for a single day use prior to the beginning of ski season. IHA issued an operating permit.

October 29<sup>th</sup> during a weekly sampling it was discovered a pressure gauge had blown, causing water leakage. A 'Do Not Use' was issued, even though the system was not in active use, and the blown gauge and UV system was by-passed. An emergency repair was conducted to replace the gauge, and again the system was chlorinated and flushed prior to re-starting coliform sampling.

November 22<sup>nd</sup> a no-pressure alarm was active, and the UV shut-off solenoid was tripped. Another 'Do Not Use' was issued (and again, no public was accessing the system as the season had yet to begin).

Investigations lead to the discovery that the lack of use in the system caused heat build-up in the lamp, burning it out.

The lamp and crystal were replaced, the system chlorinated and flushed, and sampling re-started shortly after on December 18<sup>th</sup>, 2018.

Manufacturer's specified maintenance was also conducted on the drinking water fountain, and its filter replaced prior to season start.

During the ski season, ~80kg of softening salt was added to the system.

**Annual System Report** 

Several samples submitted showed background bacteria growth (no coliform), these samples were taken during very low usage periods. A more thorough flushing in these times has been implemented and has resolved the issue.

#### Emergency Response and Contingency Plan:

The current plan (which can be found in appendix C), is a basic response plan covering the most likely potential incidents, and provides the framework to expand as needed. The plan will be reviewed prior to the start of the next ski season, and revised as needed to reflect the most current conditions.

#### Long range plans:

At this time, there are no long range (with-in five years) plans for development of the system; however, the board reviews long range and strategic plans annually and any change will be reflected in the next report.

In closing, our second season of operation was a success, and we look forward to many more seasons to come.



# **Appendix A**

Sampling Plan

**Annual System Report** 



Water
Quality
Monitoring
Plan

Overlander Ski Club

Stake Lake Trails Water System

Facility #14-215-00031

Box 1191 Kamloops, BC, V2C 6H3

250-372-5514

#### Overview

The raw water from the Stake Lake well does not meet safe drinking water guidelines as set out by both Interior Health Authority (IHA), and the Canadian Council of Ministers of Environment.

This sampling program is designed to ensure that the water treatment system set-up by the Overlander Ski Club is effectively treating the raw water to both meet safety guidelines, and meet or exceed regulatory testing. All sampling needs to be taken from a treated source, the water fountain is the easiest to sample from.

#### Sampling

**Bacteriological**: Coliform sampling must be submitted weekly from the first week in November until ski operations close.

Coliform bottles and sampling chain of custodies are obtainable from IHA at 519 Columbia St. Kamloops.

Samples should be taken Monday or Tuesday, and must be returned to the IHA office between 09:00 - 13:30 the day of sampling. Samples may also be taken on Wednesday, but this should not be normal practice.

**Total metals / Turbidity:** Metals and turbidity should be sampled three times; once late October, once late January and lastly at the end of ski season. This schedule not only meets our permit requirements, but also our equipment manufacturer's recommendations.

Sample supplies can be picked up from ALS Environment at 1445 McGill Road Kamloops.

Once sampled, these should be returned as soon as possible to ALS for analysis. These samples can be taken anytime during the labs open hours.

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#### **Reporting:**

All reports, once reviewed, need to be forwarded to our assigned IHA Drinking Water Officer, currently Katie. Her e-mail: Katharine.Mcnamara@interiorhealth.ca

#### Conclusion

This plan meets both our regulated, and recommend sampling requirements in order to ensure the safety of our drinking water supply.

This plan doesn't supersede any ordered changes to parameters, or cover unexpected changes in conditions.

If there are any changes to the water system during operations, additional testing may be required.

Annual System Report



# **Appendix B**

Sample

**Test** 

**Results** 

**Annual System Report** 

#### Interior Health Authority Drinking Water - Bacteriological

April 15, 2019

Collection Date	Sample Number	Facility Name (Sample Site)	Submission Type	Sample Type	Sample Date	Total Severity Weight	Acceptable?
26-Mar-2019	9032097-32	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	27-Mar-2019		Acceptable
18-Mar-2019	9031388-15	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	19-Mar-2019		Acceptable
11-Mar-2019	9030788-03	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	12-Mar-2019		Acceptable
06-Mar-2019	9030469-12	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	07-Mar-2019		Acceptable
27-Feb-2019	9021908-01	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	28-Feb-2019		Acceptable
20-Feb-2019	9021340-06	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	21-Feb-2019		Acceptable
04-Feb-2019	9020166-06	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	05-Feb-2019		Acceptable
28-Jan-2019	9012050-06	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	29-Jan-2019		Acceptable
21-Jan-2019	9011517-03	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	22-Jan-2019		Acceptable
14-Jan-2019	9010947-01	Overlander Ski Club (Overlander Ski Club - Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	15-Jan-2019	Low	Unacceptable
08-Jan-2019	9010524-23	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	09-Jan-2019	Low	Unacceptable
02-Jan-2019	9010102-20	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	03-Jan-2019		Acceptable
8-Dec-2018	8121507-16	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	19-Dec-2018		Acceptable
11-Dec-2018	8120943-16	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	12-Dec-2018	Low	Unacceptable
04-Dec-2018	8120255-18	Overlander Ski Club (Overlander Ski Club - Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	05-Dec-2018	Low	Unacceptable
27-Nov-2018	8112193-25	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	28-Nov-2018	Low	Unacceptable
20-Nov-2018	8111610-16	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	21-Nov-2018		Acceptable
13-Nov-2018	8111018-22	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	14-Nov-2018		Acceptable
05-Nov-2018	8110361-12	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	06-Nov-2018		Acceptable
22-Oct-2018	8101994-04	Overlander Ski Club (Stake Lake Restroom - 2)	Non-Audit	Drinking Water - Bacteriological	23-Oct-2018		Acceptable
22-Oct-2018	8101994-09	Overlander Ski Club (Stake Lake Restroom - 1)	Non-Audit	Drinking Water - Bacteriological	23-Oct-2018	Low	Unacceptable

Page 1 of 2

#### Interior Health Authority Drinking Water - Bacteriological

April 15, 2019							
16-Oct-2018	8101437-13	Overlander Ski Club (Stake Lake Restroom - 2)	Non-Audit	Drinking Water - Bacteriological	17-Oct-2018		Acceptable
16-Oct-2018	8101437-14	Overlander Ski Club (Stake Lake Restroom - 1)	Non-Audit	Drinking Water - Bacteriological	17-Oct-2018	Low	Unacceptable
10-Oct-2018	8100977-20	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	11-Oct-2018	Low	Unacceptable
01-Oct-2018	8100102-02	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	01-Oct-2018	Low	Unacceptable
24-Sep-2018	8092082-11	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	25-Sep-2018	Low	Unacceptable
18-Sep-2018	8091547-32	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Bacteriological	18-Sep-2018		Acceptable
05-Sep-2018	L2158650-1	Overlander Ski Club (Stake Lake Restroom)	Non-Audit	Drinking Water - Chemical	05-Sep-2018		Acceptable
							Report Total: 28

Page 2 of 2

# Metals analysis results:

Client Sample ID			STAKE LAKE RESTROOM	STAKE LAKE RESTROOM	STAKE LAKE RESTROOM
Date Sampled			5-Sep-2018	26-Mar-2019	8-Apr-2019
Time Sampled			10:00	9:30	9:30
Parameter	Lowest Detection Limit	Units	Water	Water	Water
Physical Tests (Water)					
Hardness (as CaCO3)	0.50	mg/L	3.09	1.82	
Turbidity	0.10	NTU	<0.10	<0.10	
Total Metals (Water)					
Aluminum (AI)-Total	0.010	mg/L	<0.010	<0.010	
Antimony (Sb)-Total	0.00050	mg/L	<0.00050	<0.00050	
Arsenic (As)-Total	0.00010	mg/L	<0.00010	0.00021	
Barium (Ba)-Total	0.020	mg/L	<0.020	<0.020	
Boron (B)-Total	0.10	mg/L	<0.10	<0.10	
Cadmium (Cd)-Total	0.00020	mg/L	<0.00020	<0.00020	
Calcium (Ca)-Total	0.10	mg/L	0.97	0.54	
Chromium (Cr)-Total	0.0020	mg/L	<0.0020	<0.0020	

Annual System Report

Copper (Cu)-Total	0.0010	mg/L	0.0843	0.0484	
Iron (Fe)-Total	0.030	mg/L	<0.030	<0.030	
Lead (Pb)-Total	0.00050	mg/L	<0.00050	0.00069	
Magnesium (Mg)-Total	0.10	mg/L	0.16	0.11	
Manganese (Mn)-Total	0.0020	mg/L	<0.0020	<0.0020	
Mercury (Hg)-Total	0.00020	mg/L	<0.00020	<0.00020	
Potassium (K)-Total	0.10	mg/L	3.13	2.79	
Selenium (Se)-Total	0.0010	mg/L	0.0019	0.0015	
Sodium (Na)-Total	2.0	mg/L	156	181	
Uranium (U)-Total	0.00010	mg/L	0.00033	0.0286	0.0243
Zinc (Zn)-Total	0.050	mg/L	<0.050	0.063	

#### Analysis conducted by ALS Environment

#### Results notes:

Background growth in results is not Unacceptable, "Please note that all samples showing as "unacceptable" are actually acceptable. The lab noted those samples as having background growth (from general bacteria – not uncommon in unchlorinated systems), which is not actually unacceptable. Our database still has some kinks to work out. "

The uranium exceedance will be looked after during off-season, and reported on in the next annual report.



# Appendix C

And
Contingency
Plan



# And Contingency Plan

Overlander Ski Club

Stake Lake Trails Water System

Facility #14-215-00031

Box 1191 Kamloops, BC, V2C 6H3

250-372-5514

# **Emergency Contact Information**

### **Operators:**

Name	Phone	E-mail
Lee Card	250-372-5514	info@overlanderskiclub.com
R. Matt Bruce	250-372-5514	info@overlanderskiclub.com

#### **Owners:**

Name	Phone	E-mail
Luc Guilherme	250-372-5514	info@overlanderskiclub.com
Vesta Giles	250-372-5514	info@overlanderskiclub.com

#### **Interior Health Contacts**

Name / Office	Phone	E-mail
Drinking Water Officer - Katie McNamara / Kimberly Potter	250-851-7410 / 250-319-8351	Katharine.Mcnamara@interiorhealth.c  a Kimberly.potter@interiorhealth.ca
Public Health Eng.	250-851-7320	
After Hours Emergency Line	1-866-457-5648	

#### **Other Government Contacts**

Agency	Phone	E-mail
EMA BC	1-800-663-3456	
MoFL&NR	250 371-6528	Michel.Woodman@gov.bc.ca

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#### **Emergency Lab Contacts**

Name	Parameter s	Phon e	E-mail	Shipping Address
ALS Environmen t	Biological / Chemical	250-3 72-35 88	Amanda.Lampreau@alsglobal.co m	1445 McGill Rd #2b,
				Kamloops , BC V2C 6K7
Caro Analytical	Biological / Chemical	(250) 765-9 646	Kelowna@caro.ca	3677 BC-97, Kelowna, BC V1X 5C3

#### **Emergency Services Contacts**

9-1-1

Logan Lake Non-Emergency RCMP: 250-523-6222

Royal Inland Hospital: 250- 374-5111

#### **Repair Services:**

Company	Contact	Phone
Electrical Issues	Klaus Voss	250-372-5514
Twin Rivers Plumbing		250-376-0221
JR Drilling		1-866-711-8118
Delta Irrigation (treatment supplier)	Kelvin Turpin	250-372-5514

Annual System Report

General Troubleshooting	Luc G.	250-372-5514

#### Overview:

The Stake Lake water system is a small system, with a single main potable water access point being the water fountain in the restroom building. All access to the water system is from Overlander Ski Club members and trail users on the Stake Lake ski trails.

In any event causing an issue with the water system, staff will post a 'Do Not Consume' notice in the restroom, and remove the fountain from commission. Notice will also go out via our social media outlets, and verbally as users enter the trail system through the ticket booth.

Staff will notify the appropriate government agencies (at a minimum our Drinking Water Officer), and the board director contact (Luc) who will begin (or direct staff to) coordinating repair.

In the event of a total water loss, the restroom building will be locked, notices sent out as above, and users directed to the outhouse buildings if required.

More specific details for individual situations can be found on the following pages, for detailed information on equipment operation the manufacturer's instructions, found in the water treatment room, should be referenced.

#### GENERAL EMERGENCY SHUT-DOWN AND START-UP PROCEDURES

#### In case of any emergency in which the water is not safe for consumption or general use:

- 1. Issue a Boil Water Notice (for biological contamination) or Do Not Use Notice (for chemical contamination).
- 2. Shut off water supply (if necessary) to drinking fountain (for do not consume / boil water) or shut off water to the building for do not use notice.
- 3. Staff (Lee or Matt) will contact the drinking water officer or other health authority contact(s) (as per specified emergency procedures).
- 4. Staff will notify affected water users as they enter the trail system and via social media.
- 5. Staff will notify appropriate government agencies (as per specified emergency procedures).
- 6. Staff will post warning signs in public spaces and other necessary locations.
- 7. Luc or Staff will coordinate repairs.
- 8. Staff will arrange for alternate source of safe drinking water (2x20l carboys).

#### START-UP PROCEDURE

- 1. Identify and correct the source of contamination.
- 2. The entire system should be flushed and disinfected (as per manufacturer's procedures).
- 3. Send water sample(s) to the appropriate approved lab for testing. For bacteriological contamination, two consecutive sampling results at least 24hr's apart must be negative.
- 4. Contact the drinking water officer or delegate for approval to resume normal operations of the water supply system (e.g., lifting the Boil Water Notice).

.....

#### CHEMICAL CONTAMINATION OF SOURCE: SPILL, VEHICLE ACCIDENT, ETC.

#### **ACTIONS**

- Shut down pump.
- Turn off water supply to system
- Issue Do not Use water notifications post signs and notify users via trail entry and social media
- Notify health authority and board of directors' contact as per contact list.
- Contact government agencies (see below) for advice and assistance as per spill control plan.
- Arrange next on-shift staff or board member to bring in 2x20l carboys of drinking water
- Begin analytical testing for contaminate(s) of concern

#### **CONTACTS**

Drinking water officer

Local government's emergency program coordinator (if required by spill response plan)

Emergency Management BC (if required by spill response plan)

Police (if required by spill response plan, or spill is related to suspected criminal activity)

Ministry of Forests, Lands and Natural Resource Operations

Others as necessary, depending on severity / cause.

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#### LOSS OF SOURCE: INTAKE DAMAGED, WELL DRIED UP, ETC.

#### **ACTIONS**

- Ensure pump is shut off (to protect pump).
- Turn off water to system (to protect from possible contamination)
- Lock restroom building and notify all users via social media and gate entry.
- Contact government agencies (see below) for advice and assistance.
- Arrange next on-shift staff or board member to bring in 2x20l carboys of drinking water
- Arrange for analytical testing as/if required

#### **CONTACTS**

- Drinking water officer
- Ministry of Forests, Lands and Natural Resource Operations
- Board of directors

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#### **PUMP FAILURE**

#### **ACTIONS**

- Notify all users of interruption of service.
- Call for repairs: pump manufacturer.
- Advise drinking water officer (if interruption not short-term).
- Arrange next on-shift staff or board member to bring in 2x20l carboys of drinking water
- Arrange for analytical testing as required (minimum 2x bacteria samples taken 24hr apart)

#### CONTACT

- Drinking Water Officer
- Board of Directors

#### **POWER FAILURE**

#### **ACTIONS**

- Call BC Hydro.
- Ensure UPS is active
- Notify all users about interruption of service if back-up not capable of maintaining supply.
- Issue Do Not Consume advisory if UPS unable to maintain proper treatment levels; notify users
- Advise drinking water officer.
- Arrange next on-shift staff or board member to bring in 2x20l carboys of drinking water
- If treatment is interrupted, begin biological sampling prior to removing advisory

#### CONTACT

Drinking water officer

**Board of Directors** 

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#### **BROKEN WATER MAIN**

#### **ACTIONS**

- Turn off water to restroom building, lock door and post do not use advisory
- Turn off pump
- Call for repairs (e.g., plumber, excavator).
- Notify all users of interruption of service.
- Advise local drinking water officer
- Arrange next on-shift staff or board member to bring in 2x20l carboys of drinking water.
- Begin any required testing as directed post repair by the drinking water officer.

#### CONTACT

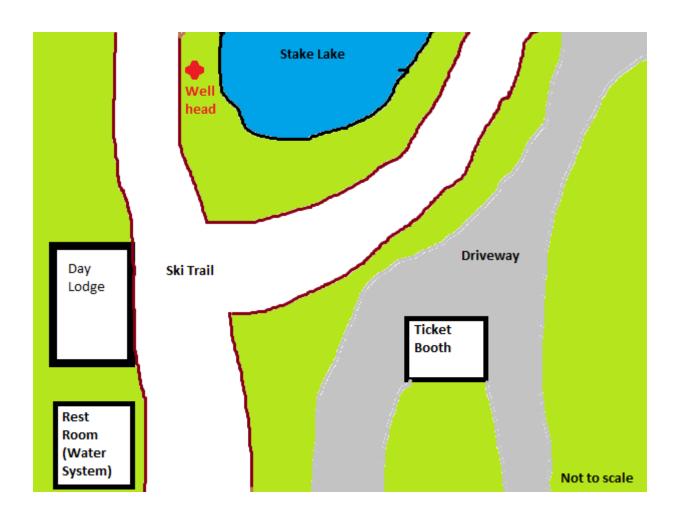
Drinking water officer

**Board of Directors** 

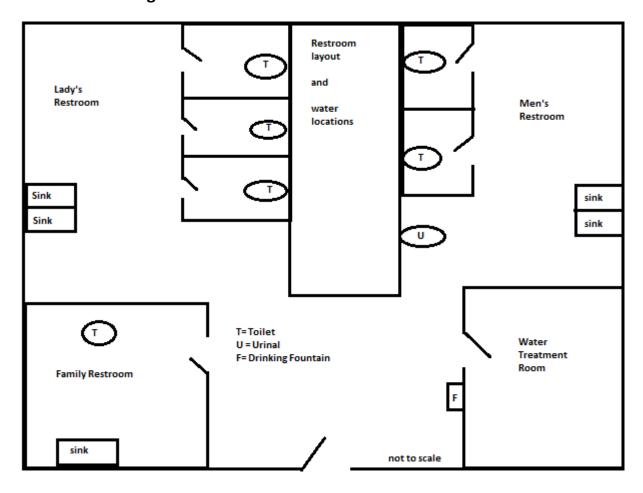
**Annual System Report** 

# Appendix A Maps & Layouts

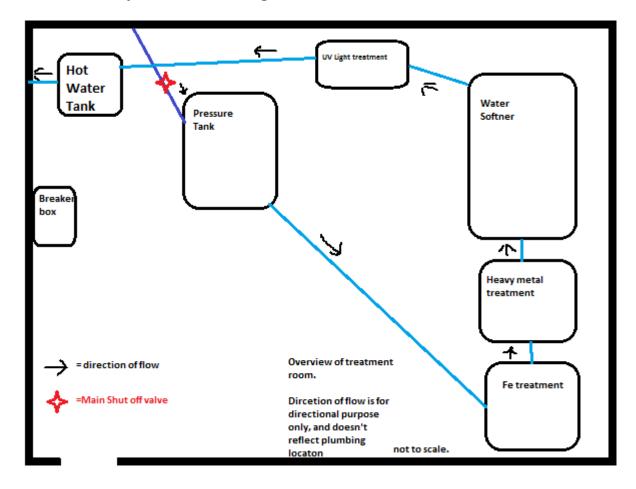
# Overview and well placement:

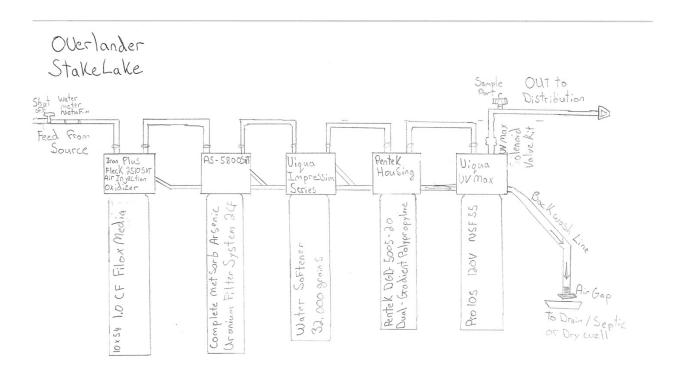


# **Restroom building:**



# Water room layout and flow diagram:





# Appendix B Advisory Notices

# **WATER QUALITY ADVISORY**

Stake Lake Water System has issued an advisory due to:
Unsafe water conditions

Until notified, users:

with weakened immune systems, &/or wishing additional protection

Should take precautions when drinking, washing fruits & vegetables, making beverages or ice, or when brushing teeth

Boil water rapidly for a least 1 minute, or use an alternate, safe source of water

For more information contact Ticket Booth at 250-372-5514

Prepared: July 2019 by Lee Card

HP-WQ-9068 September 2011

## DO NOT USE WATER NOTICE

Stake Lake

**Water System** 

has issued this advisory effective immediately due to:
unsafe conditions

All water users are advised to use bottled water or an alternate source of water for drinking, making ice, washing dishes, brushing teeth, bathing, and food preparation until further notice.

Boiling the water will not make it safe. If alternate water sources are used, the water must be from an Interior Health approved sources only. The water in your hot water tank may also be unsafe. Please consult a qualified plumber before draining your hot water tank.

For more information contact ticket booth staff at 250-372-5514

#### PLEASE SPREAD THE WORD TO YOUR NEIGHBOURS

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example; people in apartments, rental units, care facilities, schools, preschools, churches, and businesses). You can do this by phone calls, posting this notice in a public place or distributing copies by hand. Email and postal mail should only be used to supplement methods of direct communication.

**Annual System Report** 

# **BOIL WATER NOTICE**

Stake Lake

**Water System** 

has issued this advisory effective immediately

due to:

Prepared: July 2019 by Lee Card

unsafe conditions

Boil water before using it for drinking, making ice, cooking, washing food, or brushing teeth. Use a hand sanitizer after washing hands.

Until notified all users are advised to:

- 1. Bring water to a rolling boil for a least 1 minute, or
  - 2. Use an alternate, safe source of water

For more information contact staff at 250-372-5514

HP-WQ-9067 October 2011



# **Appendix D**

# **Permits**



# **Permit To Operate**

#### **Drinking Water System 14 or Less Connections**

Facility Number:

14-215-00031

Name of Facility:

Overlander Ski Club

Address:

5140 Lac Le Jeune Rd

Kamloops BC V1S

Canada

Primary owner

Overlander Ski Club

Conditions:

Seasonal Operation: December to March

See Conditions on Permit

April 01, 2017

Effective Date

January 10, 2018

Issue Date

Micero Terio - Mogslingar

This permit is nontransferable and must be displayed in a conspicuous place



807625 June 04



Appendix E

**Training** 

&

Development

**Annual System Report** 



The club is committed to supporting staff and volunteers in furthering professional development to support the water system as needed.