

Reporting Period	Jan 1, 2017 to Dec 31, 2017		
Water System Name	Blackcomb – Jersey Cream, Glacier Creek, Horstman H Horstman Patrol Hut Whistler - CLC, Chic Pea, Roundhouse, Ravens		
Water System Owner	Vail Resorts, Whistler Blackcomb		
Primary Contact Name (Operator or Manager)	NaTai Perdue		
Phone Number (Operator or Manager)	604-905-8409		
Email (Operator or Manager)	nperdue@vailresorts.com		

Describe Your Water Supply System
What is the source(s) of Raw Water?
Deep Well Shallow Well Surface Water Other (specify):
Does The Drinking Water System Have Primary Disinfection? Yes No
Chlorination Ultraviolet light Ozonation Other (specify):
Does The Drinking Water System Have Secondary Disinfection?
Chlorination; All systems except the Roundhouse system
Ultraviolet light; Only at Horstman Hut and Horstman Patrol Hut
Does The Drinking Water System Have Filtration? ☐ Yes ☐ No Filter Type (check boxes that apply):
Public Reporting
Public Reporting Emergency Response & Contingency Plan (ERCP)
Emergency Response & Contingency Plan (ERCP)
Emergency Response & Contingency Plan (ERCP) Is your ERCP up to date? Yes No
Emergency Response & Contingency Plan (ERCP) Is your ERCP up to date? Yes No How do you inform the users of the ERCP?
Emergency Response & Contingency Plan (ERCP) Is your ERCP up to date? Yes No How do you inform the users of the ERCP? Hand Delivered Bulletin Board Website;
Emergency Response & Contingency Plan (ERCP) Is your ERCP up to date? Yes No How do you inform the users of the ERCP? Hand Delivered Bulletin Board Website; Other; WB Internal Shared File
Emergency Response & Contingency Plan (ERCP) Is your ERCP up to date? Yes No How do you inform the users of the ERCP? Hand Delivered Bulletin Board Website; Other; WB Internal Shared File Drinking Water System Annual Report
Emergency Response & Contingency Plan (ERCP) Is your ERCP up to date? Yes No How do you inform the users of the ERCP? Hand Delivered Bulletin Board Website; Other; WB Internal Shared File Drinking Water System Annual Report How do you inform system users of the Annual Report?



Drinking Water System Annual Report

Compliance with Operating Permit

List the conditions of your Operating Permit (Contact the DWO for a copy if needed):

- Horstman Water Hauling Unit must only be filled from Approved Potable Source(s)
- Review and update the Emergency Response Plan annually
- Monitor for E. Coli and Total Coliform semi-monthly and in accordance with the monitoring plan
- Provide a Well Protection Plan for each source
- Water Hauling limited to Horstman Hut and Patrol Hut on Blackcomb Mountain
- Monitor Cross Connection Control Program for Potable and Non-Potable Water
- Maintain a Free Chlorine Residual throughout the Distribution System

• Prov	 Maintain a Free Chlorine Residual throughout the Distribution System Provide a Certified Operator; Level I Water Treatment & Level II Water Distribution 					
Are you in compliance with the Operating Permit? X Yes No						
Bacteriolo	Bacteriological Testing Completed During This Reporting Period					
How many b	acterio	logical sa	mples did y	ou collect? 241		
Bacteriologic	cal sum	mary atta	ached to this	s report. 🔀 Yes 🗌 No		
		-	-	l no more than 10% of san how the presence of E coli.	nples can show the presence of total	
Did your wat	ter syste	em meet	this standa	rd? 🛚 Yes 🗌 No		
If No, compl	ete the	table bel	ow; Attach	additional sheets if necessa	ary.	
Date	T. Coli	iform #	E. Coli #	Reason	Corrective Action	
Chemical S	Samplin	ng Compl	eted During	This Reporting Period		
		<u> </u>		This Reporting Period Yes No?		
Did you cond	duct any	y chemica	al sampling:		inking Water Quality? ⊠ Yes □ No	
Did you cond	duct any	y chemica r sample	al sampling: s meet the 0	⊠ Yes □ No?	· — —	
Did you cond	duct any ed wate the par	y chemica r sample	al sampling: s meet the (in the table	Yes No? Guidelines for Canadian Drebelow: Complete addition	· — —	
Did you cond Did all treate If no, record	duct any ed wate the par	y chemica er sample rameters	al sampling: s meet the (in the table	Yes No? Guidelines for Canadian Drebelow: Complete addition	al sheets if necessary.	
Did you cond Did all treate If no, record	duct any	y chemica or sample rameters Resul	al sampling: s meet the (in the table	Yes No? Guidelines for Canadian Drebelow: Complete addition	al sheets if necessary.	
Did you cond Did all treate If no, record Paramet Additional	duct any ed wate the par er Testing	y chemica or sample rameters Resul	al sampling: s meet the (in the table	Yes No? Guidelines for Canadian Drebelow: Complete addition	al sheets if necessary. ve Action/Treatment	
Did you cond Did all treate If no, record Paramet Additional Did you com	duct any ed wate the pare	y chemica or sample rameters Resul	al sampling: s meet the (in the table t	Yes No? Guidelines for Canadian Dr below: Complete addition Correcti	al sheets if necessary. ve Action/Treatment iod? Yes No	



Promoting wellness. Ensuring care.								
Water Quality O	Water Quality Complaints							
Did you receive ar	Did you receive any water quality complaints in this reporting period? Yes No							
If yes, complete th	If yes, complete the table below. Attach additional sheets if necessary.							
Date	Water Qualit			Corrective Action Taken				
	(nor table) ca	ur, corour, etc,						
Operational Pro	blems							
Did you experienc	e operational إ	problems during th	nis reporting per	riod? 🗌 Yes 🔀 No				
		nsufficient water su	pply, malfunction	of disinfection equipment, line breaks,				
		. Attach additional	sheets if necess	elevated turbidity, etc,). If yes, complete the table below. Attach additional sheets if necessary.				
yes, complete the table below. Attach additional sheets if necessary.								
Incident Date	Туре	of Operational Pr		Corrective Action Taken				
Incident Date	Туре	of Operational Pr						
Incident Date	Туре	of Operational Pr						
Incident Date Major Upgrades		·						
Major Upgrades	s/Repairs & Ex	penses	roblem					
Major Upgrades Did you complete	s/Repairs & Ex	penses	major expenses	in this reporting period? Yes No				
Major Upgrades Did you complete If yes, complete th Major Upgrade	any upgrades/he table below.	penses repairs and incur r	major expenses	in this reporting period? Yes No				
Major Upgrades Did you complete If yes, complete th	any upgrades/ he table belowers/Expenses required by	penses repairs and incur r	major expenses	in this reporting period? Tes No				
Major Upgrades Did you complete If yes, complete th Major Upgrade Improvements	any upgrades/ he table below. es/Expenses required by	penses (repairs and incur i . Attach additional	major expenses sheets if necess	in this reporting period? Yes No				
Major Upgrades Did you complete If yes, complete th Major Upgrade Improvements of DWC	any upgrades/ he table below. es/Expenses required by D ges to system Ilation of new	penses (repairs and incur i . Attach additional	major expenses sheets if necess	in this reporting period? Yes No sary. Details n/a tment system c/w 1um filtration for JC Well				
Major Upgrades Did you complete If yes, complete the Major Upgrade Improvements to DWC Additions/chang	any upgrades/ he table below. es/Expenses required by D ges to system llation of new hent repair or	penses (repairs and incur i . Attach additional	major expenses sheets if necess	in this reporting period? Yes No sary. Details n/a tment system c/w 1um filtration for JC Well				



Drinking Water System Annual Report

Specialist report	n/a

Future Improvements

Do you have plans for any future improvements? X Yes No

If yes, complete the table below. Attach additional sheets if necessary.

Future Upgrades or Improvements	Est. date of completion
Add a non-potable supply to the Roundhouse Water system. Potentially add water to Crabapple Snowmaking Pumphouse	Winter 2019, Winter 2018

Date Completed; June 27, 2018

Completed by; NaTai Perdue



WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel: (604) 938-7661	
Blackcomb - Jersey Cream	Fax: (604) 938-7532	
Premises Address	Inspection Date	Time Spent
4545 Blackcomb Way	April 24, 2018	1 hour
Whistler, BC V0N 1B4		
Operator (Person in Charge)		
Na Tai Perdue		
Inspection Type		
Evaluation		

Observed Violations
There are no observed violations.

Section Details			

Comments

This is a 2017 year end summary inspection report for the Jersey Cream water system on Blackcomb Mountain. This water system services The Rendezvous Restaurant, the Alpine Shop, and is transported to Horstman and Patrol Huts in a permitted water hauling unit. A non-potable water system supplies the toilets in Rendezvous.

The Operating Permit for this Drinking Water system contains the following conditions:

Review and update the Emergency Response Plan annually

Prepare a Cross Connection Control Plan

Provide a free chlorine residual throughout distribution system

Monitor for E. Coli and Total Coliform semi monthly and in accordance with the monitoring plan.

A complete analysis of the well source water was conducted in December 2017. All chemical result are below the Operational Guidelines, Maximum Acceptable Concentrations and Aesthetic Objectives of the Canadian Drinking Water Guidelines. The JC well #1 sample from December was positive for low level total coliforms (2 per 100mL).

A 2017 water monitoring plan schedule has been provided. A total of 48 samples were collected from the distribution system, which would exceed the frequency listed as a condition of the Operating Permit as semi-monthly for each of the 2 active sample sites for the distribution system. The 2017 sample range report indicates bacteriological monitoring results are in accordance with the potable water quality standards of the BC Drinking Water Protection Regulation.

Annual Reports for this system have been submitted in a timely manner, and the 2016 annual report has been provided. The 2017 Annual Report is due on June 30th, 2018.

Please update your Emergency Response plan to include the current list of VCH contacts provided with this report.

Our records show that a repair was conducted on the main line from Jersey Cream Well #2 in the fall of 2017.

A construction permit was also issued on Feb 6th 2018 to this water system for the following works, which are scheduled to be completed later this year.

"The addition of water treatment when the backup well JC #1 is used, treatment includes 1 um filtration

Report No. Page 1 of 2

and one R-CAN SPV-20 UV unit c/w 13.5 gpm flow res 10,000 gallon tanks; peak daily flow is estimated to be	
Action Taken Information Exchanged	
Hazard Rating For Your Facility:	☐ High ☐ Moderate ☐ Low
DWO	
DWO Printed Name James Whalen	

Report No. Page 2 of 2

Sample Range Report

Vancouver Coastal Health

Facility Name: Blackcomb - Jersey Cream **Date Range:** Jan 1 2017 to Dec 31 2017

Operator Na Tai Perdue

4545 Blackcomb Way Whistler, BC V0N 1B4

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Blackcomb Alpine Shop, Blackcomb				
<u>Mountain</u>	1 10 100 17			
	1/3/2017	L1	L1	
	1/17/2017	L1	L1	
	1/31/2017	L1	L1	
	2/14/2017	L1	L1	
	2/28/2017	L1	L1	
	3/15/2017	L1	L1	
	3/28/2017	L1	L1	
	4/11/2017	L1	L1	
	4/25/2017	L1	L1	
	5/9/2017	L1 L1	L1 L1	
	5/23/2017	L1 L1	L1 L1	
	6/6/2017 7/5/2017	L1 L1	L1 L1	
	7/3/2017	L1 L1	L1 L1	
	7/18/2017	L1 L1	L1 L1	
	8/15/2017	L1 L1	L1 L1	
	8/29/2017	L1 L1	L1	
	9/12/2017	L1 L1	L1	
	9/25/2017	L1	L1	
	10/11/2017	L1	L1	
	11/20/2017	T	LI	
	12/4/2017	L L 1	L1	
	12/18/2017	<u>L1</u>	<u>L1</u>	
	Total Positive :	0	0	
Rendevous				
Restaurant,				
Blackcomb Mountain				
	1/3/2017	L1	L1	
	1/17/2017	L1	L1	
	1/31/2017	L1	L1	
	2/14/2017	L1	 L1	
	2/28/2017	L1	L1	
	3/15/2017	L1	L1	
	3/28/2017	L1	L1	
	4/11/2017	L1	L1	
	4/25/2017	L1	L1	

5/9/2017	L1	L1
6/6/2017	L1	L1
6/20/2017	L1	L1
6/20/2017	L1	L1
7/5/2017	L1	L1
7/18/2017	L1	L1
7/31/2017	L1	L1
8/15/2017	L1	L1
8/29/2017	L1	L1
9/12/2017	L1	L1
9/25/2017	L1	L1
10/11/2017	L1	L1
10/25/2017	L1	L1
11/20/2017	T	
12/4/2017	L1	L1
12/18/2017	<u>L1</u>	<u>L1</u>
Total Positive:	0	0

Result Values:	E - estimated	l	L - less than	G - greater than	
Samples that contain Samples that contain	n e. coli:	0		0.00% of total 0.00% of total	
Samples that contain Number of consecution contain total coliform	ve samples that	0		0.00% of total	
Number of samples to coliform in last 30 da		0/0			
Total number of sam	ples:	48			

Comments:

Environmental Health Officer Apr 24 2018

FOR FURTHER INFORMATION PLEASE CALL: James Whalen (604) 932-3202

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Report Transmission Cover Page

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242570

4545 Blackcomb Way Project Name: JC Well # 1 Control Number:

Whistler, BC, CanadaProject Location:Date Received:Dec 1, 2017V0N 1B4LSD:Date Reported:Dec 6, 2017Accounts PayableP.O.:683957Report Number:2248022

Sampled By: Proj. Acct. code:

Company:

Attn:

Contact	Company	Address			
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way			
	Whistler & Blackcomb Mountain Resort Ltd.	Will de Boyon (B)			
		Whistler, BC V0N 1B4			
		Phone: (604) 932-3141 Fax: (604) 932-0416			
		Email: apinvoice@vailresorts.com			
Delivery	<u>Format</u>	<u>Deliverables</u>			
Email - Single Report	PDF	Invoice			
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way			
	Whistler & Blackcomb Mountain Resort Ltd.				
		Whistler, BC V0N 1B4			
		Phone: (604) 938-7593 Fax: (604) 938-7532			
		Email: nperdue@vailresorts.com			
Delivery	<u>Format</u>	<u>Deliverables</u>			
Email - Single Report	PDF	COA			
Email - Single Report	PDF	Invoice			
Email - Single Report	PDF	Test Report			

Notes To Clients:

• Dec 06, 2017 - The Total Coliforms result in sample 1242570-1 exceeded the maximum acceptable concentration (MAC) as specified by the February 2017 Guidelines for Canadian Drinking Water Quality.

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Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name:

Whistler, BC, Canada Project Location:

V0N 1B4 LSD:

Attn: Accounts Payable P.O.:

Sampled By: Proj. Acct. code:

Company:

Lot ID: 1242570 JC Well #1

Control Number:

Dec 1, 2017 Date Received: Date Reported: Dec 6, 2017

Report Number: 2248022

Reference Number 1242570-1

Sample Date November 30, 2017

683957

Sample Time 17:00

Sample Location

Sample Description JC Well # 1 / 5.0 °C Sample Matrix **Drinking Water**

		Sample Matrix	Dilliking water			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.003	0.001	0.1	Below OG
Antimony	Extractable	mg/L	< 0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	< 0.0001	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0016	0.0001	1	Below MAC
Boron	Extractable	mg/L	< 0.002	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.0001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	0.00007	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	< 0.0005	0.0005	1.0	Below AO
Lead	Extractable	mg/L	<0.00001	0.00001	0.01	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Uranium	Extractable	mg/L	<0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00007	0.00005		
Zinc	Extractable	mg/L	0.0694	0.0005	5.0	Below AO
Microbiological Analysi	S	· ·				
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	2.0	1.0	0 per 100 mL	Above MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate	Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.20	0.05		
Routine Water						
pH - Holding Time			Exceeded			
рН	at 25 °C		7.25		7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	29	1		
Calcium	Extractable	mg/L	4.7	0.01		
Iron	Extractable	mg/L	0.009	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	0.13	0.02		
Manganese	Extractable	mg/L	0.002	0.001	0.05	Below AO
Potassium	Extractable	mg/L	0.11	0.04		
Silicon	Extractable	mg/L	1.7	0.005		
Sodium	Extractable	mg/L	0.7	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	13	5		
Chloride	Dissolved	mg/L	0.22	0.05	250	Below AO
Fluoride	Dissolved	mg/L	<0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.11	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	0.6	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	12	1		

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Lot ID: 1242570

Date Reported:

Dec 1, 2017

Dec 6, 2017

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: JC Well #1

Control Number: Project Location: Whistler, BC, Canada Date Received:

V0N 1B4 LSD:

Attn: Accounts Payable P.O.: 683957 Report Number: 2248022

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242570-1

> Sample Date November 30, 2017

Sample Time 17:00

Sample Location

JC Well # 1 / 5.0 °C **Sample Description**

> Sample Matrix **Drinking Water**

Nominal Detection Guideline Guideline Limit Limit Comments **Analyte** Units Result **Routine Water - Continued Total Dissolved Solids** Extractable 19 1 mg/L

Approved by:

Mathieu Simoneau

Mothis

Page 3 of 3 **EXOVA**

1242570

Lot ID:

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: JC Well # 1 Control Number:

Whistler, BC, CanadaProject Location:Date Received:Dec 1, 2017V0N 1B4LSD:Date Reported:Dec 6, 2017Accounts PayableP.O.:683957Report Number:2248022

Sampled By: Proj. Acct. code:

Company:

Attn:

Method of Analysis				
Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	Dec 2, 2017	Exova Surrey
Anions by IEC in water (Surrey)	АРНА	 * Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B 	Dec 1, 2017	Exova Surrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	 Metals & Trace Elements by ICP-AES, 6010C 	Dec 1, 2017	Exova Surrey
Total and E-Coli - Colilert - DW (Surrey)	АРНА	Enzyme Substrate Test, APHA 9223 B	Dec 1, 2017	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	 Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 	Dec 1, 2017	Exova Surrey
True Color in water (Surrey)	АРНА	 * Spectrophotometric - Single Wavelength Method, 2120 C 	Dec 2, 2017	Exova Surrey
Turbidity - Water (Surrey)	АРНА	* Turbidity - Nephelometric Method, 2130 E	Dec 1, 2017	Exova Surrey

^{*} Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

 Dec 06, 2017 - The Total Coliforms result in sample 1242570-1 exceeded the maximum acceptable concentration (MAC) as specified by the February 2017 Guidelines for Canadian Drinking Water Quality.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page.

Results relate only to samples as submitted.

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Report Transmission Cover Page

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242567

4545 Blackcomb Way Project Name: JC Well # 2 Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017 VON 1B4 LSD: Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.: 683957 Report Number: 2248020

Sampled By: Proj. Acct. code:

Company:

Contact	Company	Address				
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way				
	Whistler & Blackcomb Mountain Resort Ltd.	Whistler, BC V0N 1B4	5	(004) 000 0440		
		Phone: (604) 932-3141 Email: apinvoice@vailresorts.com	Fax:	(604) 932-0416		
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>				
Email - Single Report	PDF	Invoice				
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way				
	Whistler & Blackcomb Mountain Resort Ltd.	M/highlan DO VON 4D4				
		Whistler, BC V0N 1B4	_			
		Phone: (604) 938-7593	Fax:	(604) 938-7532		
		Email: nperdue@vailresorts.com				
Delivery	<u>Format</u>	<u>Deliverables</u>				
Email - Single Report	PDF	COA				
Email - Single Report	PDF	Invoice				
Email - Single Report	PDF	Test Report				

Notes To Clients:

• Dec 06, 2017 - The analysis of water sample 1242567-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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1242567

Dec 1, 2017

Dec 6, 2017

2248020

Lot ID:

Control Number:

Date Received:

Date Reported:

Report Number:

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name:

Whistler, BC, Canada Project Location:

V0N 1B4 LSD:

Attn: Accounts Payable P.O.:

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242567-1

Sample Date November 30, 2017

683957

JC Well # 2

Sample Time 16:00

Sample Location

Sample Description JC Well # 2 / 5.0 °C Sample Matrix Drinking Water

Nominal Detection Guideline Guideline Limit Limit Comments Analyte Units Result **Metals Extractable** Aluminum Extractable mg/L 0.004 0.001 0.1 Below OG <0.00002 0.00002 0.006 Below MAC Antimony Extractable mg/L Arsenic Extractable < 0.0001 0.0001 0.010 Below MAC mg/L Below MAC Barium Extractable mg/L 0.0015 0.0001 1 Boron Extractable mg/L < 0.002 0.002 5 Below MAC Cadmium Extractable mg/L < 0.00001 0.00001 0.005 Below MAC 0.05 Below MAC Chromium Extractable < 0.00005 0.00005 mg/L Extractable < 0.0005 0.0005 Below AO Copper mg/L 1.0 Extractable 0.01 Below MAC Lead mg/L 0.000097 0.00001 Selenium Extractable mg/L < 0.0002 0.0002 0.05 Below MAC 0.00001 Below MAC Uranium Extractable mg/L 0.00003 0.02 Vanadium Extractable mg/L 0.00005 0.00005 0.0005 5.0 Below AO Zinc Extractable mg/L 0.0340 Microbiological Analysis **Total Coliforms** Enzyme Substrate MPN/100 mL <1.0 1.0 0 per 100 mL Below MAC Test 0 per 100 mL Below MAC Escherichia coli Enzyme Substrate MPN/100 mL <1.0 1.0 Test **Physical and Aggregate Properties** 5 Colour True Colour units <5 **Turbidity** NTU 0.28 0.05 **Routine Water** pH - Holding Time Exceeded at 25 °C 7.55 7.0-10.5 Within Range μS/cm at 25 °C 47 **Electrical Conductivity** 1 Calcium Extractable mg/L 8.5 0.01 0.004 Iron Extractable 0.008 0.3 Below AO mg/L Extractable 0.02 Magnesium mg/L 0.15 0.001 0.05 Below AO Manganese Extractable mg/L < 0.001 Potassium Extractable mg/L 0.09 0.04 Silicon 2.0 0.005 Extractable mg/L Below AO Sodium Extractable mg/L 0.7 0.1 200 T-Alkalinity as CaCO3 mg/L 23 5 Chloride Dissolved 0.47 0.05 250 Below AO mg/L Fluoride Dissolved mg/L < 0.01 0.01 1.5 Below MAC Nitrate - N Dissolved mg/L 0.08 0.01 10 Below MAC Nitrite - N Dissolved mg/L < 0.01 0.01 1 Below MAC Sulfate (SO4) Dissolved 0.9 0.1 500 Below AO mg/L Hardness as CaCO3 22 mg/L (extractable)

Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

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Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Project Name: JC Well # 2 Lot ID: 1242567

4545 Blackcomb Way Whistler, BC, Canada

Project Location:

Control Number:

Accounts Payable

Date Received: Dec 1, 2017

V0N 1B4

LSD:

Date Reported: Dec 6, 2017

Sampled By:

P.O.:

Report Number: 2248020

Company:

Attn:

Proj. Acct. code:

1242567-1

Sample Date Sample Time

Reference Number

November 30, 2017

Sample Location

16:00

683957

Sample Description

JC Well # 2 / 5.0 °C

Sample Matrix

Drinking Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continue	ed					
Total Dissolved Solids	Extractable	mg/L	31	1		

Approved by:

Mathieu Simoneau

Mathier

Page 3 of 3 **EXOVA**

Lot ID: 1242567

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: JC Well # 2 Control Number:

Whistler, BC, Canada Project Location: Date Received:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017
V0N 1B4 LSD: Date Reported: Dec 6, 2017
Accounts Payable P.O.: 683957 Report Number: 2248020

Sampled By: Proj. Acct. code:

Company:

Attn:

Method of Analysis		
Method Name	Reference	Method Date Analysis Location Started
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B Dec 2, 2017 Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B Dec 2, 2017 Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B Dec 2, 2017 Exova Surrey
Anions by IEC in water (Surrey)	АРНА	* Ion Chromatography with Chemical Dec 1, 2017 Exova Surrey Suppression of Eluent Cond., 4110 B
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	 Metals & Trace Elements by ICP-AES, Dec 1, 2017 Exova Surrey 6010C
Total and E-Coli - Colilert - DW (Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B Dec 1, 2017 Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	* Determination of Trace Elements in Dec 1, 2017 Exova Surrey Waters and Wastes by ICP-MS, 200.8
True Color in water (Surrey)	АРНА	 * Spectrophotometric - Single Wavelength Dec 2, 2017 Exova Surrey Method, 2120 C
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 B Dec 1, 2017 Exova Surrey

^{*} Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

• Dec 06, 2017 - The analysis of water sample 1242567-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel: (604) 938-7661	
Glacier Creek Water Supply System	Fax: (604) 938-7532	
Premises Address	Inspection Date	Time Spent
4545 Blackcomb Way	April 25, 2018	1 hour
Whistler, BC V0N 1B4		
Operator (Person in Charge)		
Natai Perdue		
Inspection Type		
Evaluation		
Observed Violations		
There are no observed violations.		
Section Details		
Occilon Betails		
Comments		
This is a 2017 year end summary report for Glacier Creek		comb Mountain.
This system services both Glacier Creek and Crystal Hut for	ood premises.	
The Operating Permit for this Drinking Water system conta	ins the following conditions:	
	ŭ	
Monitor cross connection control program for potable and	not potable water systems in (Blacier Creek
Restaurant building.	iot potable mater byotome in t	
	d ac required	
Review and update emergency response plan annually and	as required.	
Maintain a free chlorine residual in the distribution system.		
Monitor for E. Coli and Total Coliform semi monthly and in	accordance with monitoring p	lan.
A chemical analysis of the well source water was conducted	d in December 2017. All resul	Its are below the
Operational Guidelines, Maximum Acceptable Concentration	ons and Aesthetic Objectives	of the Canadian
Drinking Water Guidelines. A 2017 water monitoring plan		
samples were collected from the distribution system, which		
condition of the Operating Permit as semi-monthly for each	n of the 2 active sample sites f	for the
distribution system. The 2017 sample range report indicate	es bacteriological monitoring re	esults are in
accordance with the potable water quality standards of the		
accordance with the potable water quality standards of the	Do Britining Water 1 Totelolion	i i togulation.
Annual Roporte for this evetom have been submitted in a ti	maly manner and the 2016 or	anual roport has
Annual Reports for this system have been submitted in a ti		inuai report nas
been provided. The 2017 Annual Report is due on June 30		
Please update your Emergency Response plan to include	the current list of VCH contact	s provided with
this report.		
Action Taken		
☐ Information Exchanged		
Henry Deting For Very Facility		
Hazard Rating For Your Facility:	☐ High ☐ Moderate ☒ Low	
DWO		
DWO Printed Name		
James Whalen		

Report No. Page 1 of 1

Sample Range Report

Vancouver Coastal Health

Glacier Creek Water Supply System Jan 1 2017 to Dec 31 2017 Facility Name:

Date Range:

Operator Natai Perdue

4545 Blackcomb Way Whistler, BC V0N 1B4

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Glacier Creek Restaurant,				
Blackcomb Mountain	1/0/0017	1.4	1.4	
	1/3/2017	L1 L1	L1 L1	
	1/17/2017 1/31/2017	L1 L1	L1 L1	
	2/14/2017	L1	L1	
	2/28/2017	L1	L1	
	3/15/2017	L1	L1	
	3/28/2017	L1	L1	
	4/11/2017	L1	L1	
	8/15/2017	L1	L1	
	8/29/2017	L1	L1	
	9/25/2017	L1	L1	
	10/25/2017 11/20/2017	L1 T	L1	
	12/4/2017	L1	L1	
	12/18/2017	<u>L1</u>	<u>L1</u>	
	Total Positive :	<u> </u>	<u>= </u>	
		•	-	
Crystal Hut				
Restaraunt,				
Blackcomb Mountain				
	1/3/2017	L1	L1	
	1/17/2017	L1	L1	
	1/31/2017	L1	L1	
	2/14/2017	L1	L1	
	2/28/2017	L1	L1	
	3/15/2017	L1	L1	
	3/28/2017 4/11/2017	L1 L1	L1 L1	
	7/5/2017	L1 L1	L1 L1	
	7/3/2017	L1	L1	
	7/31/2017	L1	L1	
	8/15/2017	L1	L1	
	8/29/2017	L1	L1	
	9/25/2017	L1	L1	
	11/27/2017	L1	L1	
	12/4/2017	L1	L1	
	12/18/2017	<u>L1</u>	<u>L1</u>	

	Total Positive:	:	0	0	
Result Values:	E - estimate	d	L - less than	G -	greater than
Samples that conta Samples that conta Samples that conta Number of consecu contain total colifor Number of samples coliform in last 30 c	nin e. coli: nin fecal coliform: utive samples that m: s that contain total	0 0 0 0 0		0.00%	o of total o of total o of total
Total number of sa	•	32			

Comments:

Environmental Health Officer Apr 27 2018

FOR FURTHER INFORMATION PLEASE CALL: James Whalen (604) 932-3202

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Report Transmission Cover Page

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242556

4545 Blackcomb Way Project Name: Glacier Creek Well Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017 VON 1B4 LSD: Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.: 683957 Report Number: 2248010

Sampled By: Proj. Acct. code:

Company:

Contact	Company	Address			
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way			
	Whistler & Blackcomb Mountain Resort Ltd.	Will de Boyon (B)			
		Whistler, BC V0N 1B4			
		Phone: (604) 932-3141 Fax: (604) 932-0416			
		Email: apinvoice@vailresorts.com			
Delivery	<u>Format</u>	<u>Deliverables</u>			
Email - Single Report	PDF	Invoice			
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way			
	Whistler & Blackcomb Mountain Resort Ltd.				
		Whistler, BC V0N 1B4			
		Phone: (604) 938-7593 Fax: (604) 938-7532			
		Email: nperdue@vailresorts.com			
Delivery	<u>Format</u>	<u>Deliverables</u>			
Email - Single Report	PDF	COA			
Email - Single Report	PDF	Invoice			
Email - Single Report	PDF	Test Report			

Notes To Clients:

• Dec 06, 2017 - The analysis of water sample 1242556-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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Lot ID: 1242556

Dec 6, 2017

Date Reported:

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: Glacier Creek Well Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017

V0N 1B4 LSD:

Attn: Accounts Payable P.O.: 683957 Report Number: 2248010

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242556-1

Sample Date November 30, 2017

Sample Time 17:00

Sample Location

Sample Description Glacier Creek Well / 5.0 °C

Sample Matrix Drinking Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.001	0.001	0.1	Below OG
Antimony	Extractable	mg/L	0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0019	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0220	0.0001	1	Below MAC
Boron	Extractable	mg/L	0.005	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	<0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0007	0.0005	1.0	Below AO
Lead	Extractable	mg/L	0.00003	0.00001	0.01	Below MAC
Selenium	Extractable	mg/L	0.0005	0.0002	0.05	Below MAC
Uranium	Extractable	mg/L	0.00019	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00020	0.00005		
Zinc	Extractable	mg/L	0.0009	0.0005	5.0	Below AO
Microbiological Analysi	s					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate	Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.50	0.05		
Routine Water						
pH - Holding Time			Exceeded			
рН	at 25 °C		7.98		7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	201	1		
Calcium	Extractable	mg/L	36	0.01		
Iron	Extractable	mg/L	0.081	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	0.78	0.02		
Manganese	Extractable	mg/L	0.005	0.001	0.05	Below AO
Potassium	Extractable	mg/L	0.17	0.04		
Silicon	Extractable	mg/L	4.9	0.005		
Sodium	Extractable	mg/L	4.7	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	79	5		
Chloride	Dissolved	mg/L	0.37	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.04	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	<0.01	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	23.8	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	94	1		

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Lot ID: 1242556

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Project Name: Glacier Creek Well Control Number:

4545 Blackcomb Way Project Location: Whistler, BC, Canada

Date Received: Dec 1, 2017 V0N 1B4 LSD: Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.: 683957 Report Number: 2248010

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242556-1

> Sample Date November 30, 2017

Sample Time 17:00

Sample Location

Sample Description Glacier Creek Well / 5.0 °C

Sample Matrix **Drinking Water**

Nominal Detection Guideline Guideline Limit Limit Comments **Analyte** Units Result **Routine Water - Continued Total Dissolved Solids** Extractable 127 1 mg/L

Approved by:

Mathieu Simoneau

Nothiers

Page 3 of 3 **EXOVA**

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242556

4545 Blackcomb Way Project Name: Glacier Creek Well Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017

V0N 1B4 LSD: Date Reported: Dec 6, 2017

Accounts Payable P.O.: 683957 Report Number: 2248010

Sampled By: Proj. Acct. code:

Company:

Attn:

Method of Analysis		
Method Name	Reference	Method Date Analysis Location Started
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B Dec 2, 2017 Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B Dec 2, 2017 Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B Dec 2, 2017 Exova Surrey
Anions by IEC in water (Surrey)	АРНА	* Ion Chromatography with Chemical Dec 1, 2017 Exova Surrey Suppression of Eluent Cond., 4110 B
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, Dec 1, 2017 Exova Surrey 6010C
Total and E-Coli - Colilert - DW (Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B Dec 1, 2017 Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	* Determination of Trace Elements in Dec 1, 2017 Exova Surrey Waters and Wastes by ICP-MS, 200.8
True Color in water (Surrey)	APHA	 * Spectrophotometric - Single Wavelength Dec 2, 2017 Exova Surrey Method, 2120 C
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 B Dec 1, 2017 Exova Surrey

^{*} Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

• Dec 06, 2017 - The analysis of water sample 1242556-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel: (604) 938-7661	
Blackcomb Mountain- Horstman Hut	Fax: (604) 938-7532	
Premises Address	Inspection Date	Time Spent
4545 Blackcomb Way	April 25, 2018	1 hour
Whistler, BC V0N 1B4		
Operator (Person in Charge)		
Na Tai Perdue		
Inspection Type		
Evaluation		
Observed Violations		
There are no observed violations.		
Section Details		
Comments		
This is a 2017 year end summary inspection report for the Horstman	Hut water system on B	lackcomb
Mountain. The water system is supplied by water from the Jersey Cre		
water hauling unit to a storage reservoir. The water supply is then tre		
UV disinfection equipment		
The Operating Permit for this Drinking Water system contains the fol	lowing conditions:	
	iownig conditions.	
Review and update the Emergency Response Plan annually		
Prepare a Cross Connection Control Plan		
Water hauling procedures must meet VCH Bulk Water Hauling Guidelines Monitor for E. Coli and Total Coliform semi monthly and in accordance with monitoring plan.		
I Monitor for E. Coli and Total Collorni Semi monthly and in accordant	e with monitoring plan.	
A 0017 water manifesing plan ashedula has been previded. A total of	15 commiss were called	atad fuana tha
A 2017 water monitoring plan schedule has been provided. A total of		
distribution system, which would exceed the frequency listed as a co		
semi-monthly. The 2017 sample range report indicates bacteriological		
accordance with the potable water quality standards of the BC Drinki	ng Water Protection Re	egulation.
Annual Reports for this system have been submitted in a timely man	ner,and the 2016 annua	al report has
been provided. The 2017 Annual Report is due on June 30th, 2018.		
Please update your Emergency Response plan to include the current	t list of VCH contacts pr	rovided with
this report.		
Action Taken		
☐ Information Exchanged		
,		
Hazard Rating For Your Facility: High	Moderate 🛛 Low	
Hazard Rating For Your Facility:	ivioderate 🖂 Low	
I DWO		
DWO		
DWO Printed Name		
James Whalen		

Report No. Page 1 of 1

Sample Range Report

Vancouver Coastal Health

Facility Name: Blackcomb Mountain- Horstman Hut

Date Range: Jan 1 2017 to Dec 31 2017

Operator Na Tai Perdue

4545 Blackcomb Way Whistler, BC V0N 1B4

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Horstman Hut,				
Blackcomb Mountain				
Didoktoriio iiiod	1/3/2017	L1	L1	
	1/31/2017	L1	L1	
	2/14/2017	L1	 L1	
	2/28/2017	L1	L1	
	3/15/2017	L1	L1	
	3/29/2017	L1	L1	
	4/11/2017	L1	L1	
	4/25/2017	L1	L1	
	5/9/2017	L1	L1	
	5/23/2017	L1	L1	
	6/12/2017	L1	L1	
	6/20/2017	L1	L1	
	7/5/2017	L1	L1	
	9/25/2017	L1	L1	
	12/18/2017	<u>L1</u>	<u>L1</u>	
	Total Positive:	0	0	
Result Values:	E - estimated	L - less than	•	G - greater than
Samples that contain	total coliform:	0	0.0	0% of total
Samples that contain		0	0.0	0% of total
Samples that contain	fecal coliform:	0	0.0	0% of total
Number of consecutive		0		
contain total coliform:		0/0		
Number of samples that contain total		0/0		
coliform in last 30 day		15		
Total number of sam	pies:	[15		

Comments:

Environmental Health Officer Jun 5 2018

FOR FURTHER INFORMATION PLEASE CALL: James Whalen (604) 932-3202



WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Fax: (604) 938-7532	
Blackcomb Mountain Patrol Hut Premises Address	Inspection Date	Time Chant
	1 .	Time Spent 1 hour
4545 Blackcomb Way Whistler, BC V0N 1B4	April 25, 2018	l noui
Operator (Person in Charge)		
Natai Perdue		
Inspection Type		
Evaluation		
Observed Violations		
There are no observed violations.		
Section Details		
Comments		
This is a 2017 year end summary inspection report for the Patrol Hut		
Mountain. The water system is supplied by water from the Jersey Cre	eam water system via a	permitted
water hauling unit to a storage reservoir. The water is then treated wi	th sedimentation filters	and UV
disinfection equipment.		
The Operating Permit for this Drinking Water system contains the fol	lowing conditions:	
	_	
Review and update the Emergency Response Plan annually		
Prepare a Cross Connection Control Plan		
Water hauling procedures must meet VCH Bulk Water Hauling Guide	elines	
Monitor for E. Coli and Total Coliform semi monthly and in accordance		
,	01	
A 2017 water monitoring plan schedule has been provided. A total of	13 samples were collect	cted from the
distribution system, which would exceed the frequency listed as a col		
semi-monthly. The 2017 sample range report indicates bacteriological		
accordance with the potable water quality standards of the BC Drinki		
accordance minimum potacle mater quanty clanical according to	ga.cc.cc.c.	garadom
Annual Reports for this system have been submitted in a timely man	ner and the 2016 annua	al report has
been provided. The 2017 Annual Report is due on June 30th, 2018.	, = 0 . 0	
Please update your Emergency Response plan to include the current	list of VCH contacts or	ovided with
this report.	inot or vorrountable pr	Ovidoa Witii
Timo roporti.		
Hazard Rating For Your Facility: High	Moderate 🛛 Low	
<u> </u>		
DWO		
DWO Printed Name		
James Whalen		

Report No. Page 1 of 1

Sample Range Report

Vancouver Coastal Health

Facility Name: Blackcomb Mountain -- Patrol Hut

Date Range: Jan 1 2017 to Dec 31 2017

Operator Natai Perdue

4545 Blackcomb Way Whistler, BC V0N 1B4

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Blackcomb Patrol				
Hut, Blackcomb				
Mountain				
	1/3/2017	L1	L1	
	2/14/2017	L1	L1	
	2/28/2017	L1	L1	
	3/15/2017	L1	L1	
	3/29/2017	L1	L1	
	4/11/2017	L1	L1	
	4/25/2017	L1	L1	
	5/9/2017	L1	L1	
	5/23/2017	L1	L1	
	6/12/2017	L1	L1	
	6/20/2017	L1	L1	
	7/5/2017	L1	L1	
	12/18/2017	<u>L1</u>	<u>L1</u> 0	
	Total Positive:	0	0	
Result Values:	E - estimate	d L - less than	c	i - greater than
riesuit values.	L - estimate	L - 1655 (Hall		i - greater than
Samples that contain	total coliform:	0	0.00)% of total
Samples that contain		0	0.00	0% of total
Samples that contain	fecal coliform:	0	0.00)% of total
Number of consecutive samples that		0		
contain total coliform:				
Number of samples that contain total		0/0		
coliform in last 30 day	ys:			
Total number of sam	oles:	13		

Comments:

Environmental Health Officer Jun 5 2018

FOR FURTHER INFORMATION PLEASE CALL: James Whalen (604) 932-3202



WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel:	
Blackcomb Mountain - Water Hauling Unit	Fax:	
Premises Address	Inspection Date	Time Spent
4545 Blackcomb Way	April 25, 2018	1 hour
Whistler, BC V0N 1B4		
Operator (Person in Charge)		
Na Tai Perdue		
Inspection Type		
Evaluation		
Observed Violations		
There are no observed violations.		
There are no essential holding.		
Section Details		
Section Details		
Comments		
This is a 2017 evaluation for the Water Hauling Unit that services the		Huts. The
Water Hauling Unit is permitted in accordance with the VCH Water F	łauling Guideline.	
	_	
The Operating Permit for this Drinking Water system contains the following	llowing conditions:	
g ,	9	
Approved for potable water delivery only.		
Review and update the Emergency Response Plan annually.		
	la calcada III I a cal Dalcal	
Water hauling limited from Jersey Cream Water Supply System to H	orstman Hut and Patrol	Hut on
Blackcomb Mountain.		
Provide an operation and maintenance manual		
A 2017 water monitoring plan schedule has been provided. Sampling	of the end point of the	water hauling
(i.e. Horstman and Patrol huts) serves as a validation of the transpor		
(The second secon	
Annual Reports for this system have been submitted in a timely man	ner and the 2016 annu	al report has
been provided. The 2017 Annual Report is due on June 30th, 2018.	ner, and the 2010 annua	ai report nas
	+ l'at af \/OLL a anta ata m	ملتان در ام مرامان دم
Please update your Emergency Response plan to include the curren	t list of VCH contacts pi	rovided with
this report.		
Action Taken		
☐ Information Exchanged		
·		
Hozord Poting For Vous Facility	☐ Moderate ☐ Low	
Hazard Rating For Your Facility: High	☐ Moderate ☐ Low	
Taura		
DWO		
DWO Printed Name		
James Whalen		

Report No. Page 1 of 1



WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel: (604) 938-7661	
Whistler Mountain - Children's Learning Center	Fax: (604) 938-7532	
Premises Address	Inspection Date	Time Spent
4545 Blackcomb Way	April 24, 2018	1 hour
Whistler, BC V0N 1B4		
Operator (Person in Charge)		
Na Tai Perdue		
Inspection Type		
Evaluation		
Observed Violations		
There are no observed violations.		
Section Details		
		<u> </u>
Comments		
This is a 2017 year end inspection summary report for the Children's	Learning water system	on Whistler
Mountain. The system services The Children's Learning Center, the C		
Learning Center and the Food Premises.		'
The Operating Permit for this Drinking Water system contains the following	owing conditions:	
The operating terms and a manager and operation of	o g o o	
Monitor for E. Coli and Total Coliform semi monthly and in accordance	e with water quality mo	nitoring plan
Provide a free available chlorine residual throughout the distribution s		Intorning plan
Review and update the Emergency Response Plan annually.	yotom.	
Prepare a Cross Connection Control Plan		
r repare a cross connection control r lan		
A chamical analysis of the well source water was conducted in Decar	mbor 2017 All regulte o	ro bolow the
A chemical analysis of the well source water was conducted in Decer		
Operational Guidelines, Maximum Acceptable Concentrations and Acce		
Drinking Water Guidelines. A 2017 water monitoring plan schedule		
samples were collected from the distribution system, which would exceed a sample of the collected from the distribution system, which would exceed a sample of the collected from the distribution system, which would exceed a sample of the collected from the distribution system, which would exceed a sample of the collected from the distribution system.		
condition of the Operating Permit as semi-monthly for each of the 2 s	ample sites. The 2017	sample
range report indicates bacteriological monitoring results are in accord	lance with the potable v	vater quality
standards of the BC Drinking Water Protection Regulation.	·	
· ·		
Annual Reports for this system have been submitted in a timely mann	ner, and the 2016 annua	al report has
been completed. The 2017 Annual Report is due on June 30th, 2018		'
The Emergency Response plan is regularly updated. Please update y	our Emergency Respon	nse plan to
include the current list of VCH contacts provided with this report.	our Emergency meaps	lioo pian to
moduo the current not or vorr contacto provided with time report.		
Action Taken		
☐ Information Exchanged		
□ Information Exchanged		
1 15 0 5 V 5 m	l	1
Hazard Rating For Your Facility: High	Moderate 🛛 Low	
DWO		

Report No. Page 1 of 2

Report No. Page 2 of 2

Sample Range Report

Vancouver Coastal Health

Facility Name: Whistler Mountain - Children's Learning Center

Date Range: Jan 1 2017 to Dec 31 2017

Operator Na Tai Perdue

4545 Blackcomb Way Whistler, BC V0N 1B4

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Olympic Station, Whistler Mountain				
<u>vvinistier iviountaini</u>	1/3/2017	L1	L1	
	1/17/2017	L1	L1	
	1/31/2017	L1	L1	
	2/14/2017	 L1	L1	
	2/28/2017	L1	L1	
	3/14/2017	L1	L1	
	3/28/2017	 L1	L1	
	4/11/2017	L1	L1	
	4/25/2017	L1	L1	
	5/10/2017	L1	L1	
	5/24/2017	L1	 L1	
	6/6/2017	L1	L1	
	7/4/2017	L1	L1	
	7/17/2017	L1	L1	
	7/31/2017	L1	L1	
	8/14/2017	L1	L1	
	8/29/2017	L1	L1	
	9/11/2017	L1	L1	
	9/26/2017	L1	L1	
	10/24/2017	L1	L1	
	11/20/2017	T		
	12/5/2017	L1	L1	
	12/18/2017	<u>L1</u>	<u>L1</u>	
	Total Positive:	<u>L1</u> 0	<u>L1</u> 0	
Children's Learning Center, Whistler Mountain				
	1/3/2017	L1	L1	
	1/17/2017	L1	 L1	
	1/31/2017	L1	L1	
	2/14/2017	L1	L1	
	2/28/2017	L1	L1	
	3/14/2017	L1	L1	
	3/28/2017	L1	L1	
	4/11/2017	L1	L1	
	5/24/2017	L1	L1	
	6/7/2017	L1	L1	

6/20/2017	L1	L1
6/20/2017	L1	L1
7/4/2017	L1	L1
7/17/2017	L1	L1
7/31/2017	L1	L1
8/14/2017	L1	L1
8/29/2017	L1	L1
9/11/2017	L1	L1
9/26/2017	L1	L1
10/24/2017	L1	L1
11/7/2017	L1	L1
11/20/2017	T	
12/5/2017	L1	L1
12/18/2017	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Result Values:	E - estimate	d	L - less than	G - greater than	
Samples that contains	in e. coli:	0		0.00% of total 0.00% of total	
Samples that contain		0		0.00% of total	
Number of consecutive samples that contain total coliform:		0			
Number of samples coliform in last 30 d		0/0			
1		47			

Comments:

Environmental Health Officer Apr 24 2018

FOR FURTHER INFORMATION PLEASE CALL: James Whalen (604) 932-3202

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Report Number: 2248007

Report Transmission Cover Page

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242552

4545 Blackcomb Way Project Name: CLC Well Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017 VON 1B4 LSD: Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.: 683957
Sampled By: Proj. Acct. code:

Company:

Contact	Company	Address
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way
	Whistler & Blackcomb Mountain Resort Ltd.	Mark de Do Volver
		Whistler, BC V0N 1B4
		Phone: (604) 932-3141 Fax: (604) 932-0416
		Email: apinvoice@vailresorts.com
Delivery	<u>Format</u>	<u>Deliverables</u>
Email - Single Report	PDF	Invoice
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way
	Whistler & Blackcomb Mountain Resort Ltd.	
		Whistler, BC V0N 1B4
		Phone: (604) 938-7593 Fax: (604) 938-7532
		Email: nperdue@vailresorts.com
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email - Single Report	PDF	COA
Email - Single Report	PDF	Invoice
Email - Single Report	PDF	Test Report

Notes To Clients:

• Dec 06, 2017 - The analysis of water sample 1242552-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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1242552

Dec 1, 2017

Dec 6, 2017

Lot ID:

Date Reported:

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: CLC Well Control Number:

Whistler, BC, Canada Project Location: Date Received:

V0N 1B4 LSD:

Attn: Accounts Payable P.O.: 683957 Report Number: 2248007

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242552-1

Sample Date November 30, 2017

Sample Time 11:30

Sample Location

Sample Description CLC Well / 5.0 °C Sample Matrix Drinking Water

Nominal Detection Guideline Guideline Limit Limit Comments Analyte Units Result **Metals Extractable** Aluminum Extractable mg/L < 0.001 0.001 0.1 Below OG < 0.00002 0.00002 0.006 Below MAC Antimony Extractable mg/L Arsenic Extractable 0.0002 0.0001 0.010 Below MAC mg/L Below MAC Barium Extractable mg/L 0.0137 0.0001 1 Boron Extractable mg/L 0.002 0.002 5 Below MAC Cadmium Extractable mg/L 0.00002 0.00001 0.005 Below MAC 0.05 Below MAC Chromium Extractable <0.00005 0.00005 mg/L Extractable 0.0005 Below AO Copper mg/L 0.0007 1.0 Extractable 0.01 Below MAC Lead mg/L 0.00011 0.00001 Selenium Extractable mg/L 0.0002 0.0002 0.05 Below MAC 0.00001 Below MAC Uranium Extractable mg/L 0.00007 0.02 Vanadium Extractable mg/L < 0.00005 0.00005 0.0017 0.0005 5.0 Below AO Zinc Extractable mg/L Microbiological Analysis **Total Coliforms** Enzyme Substrate MPN/100 mL <1.0 1.0 0 per 100 mL Below MAC Test 0 per 100 mL Below MAC Escherichia coli Enzyme Substrate MPN/100 mL <1.0 1.0 Test **Physical and Aggregate Properties** 5 Colour True Colour units <5 **Turbidity** NTU 0.16 0.05 **Routine Water** pH - Holding Time Exceeded at 25 °C 7.80 7.0-10.5 Within Range μS/cm at 25 °C **Electrical Conductivity** 261 1 Calcium Extractable mg/L 52 0.01 0.004 Iron Extractable 0.018 0.3 Below AO mg/L Extractable 0.02 Magnesium mg/L 0.97 0.05 Below AO Manganese Extractable mg/L < 0.001 0.001 Potassium Extractable mg/L 0.51 0.04 Silicon 3.8 0.005 Extractable mg/L Below AO Sodium Extractable mg/L 1.7 0.1 200 T-Alkalinity as CaCO3 mg/L 111 5 Chloride Dissolved 0.63 0.05 250 Below AO mg/L Fluoride Dissolved mg/L 0.02 0.01 1.5 Below MAC Nitrate - N Dissolved mg/L 0.07 0.01 10 Below MAC Nitrite - N Dissolved mg/L < 0.01 0.01 1 Below MAC Sulfate (SO4) Dissolved 25.1 0.1 500 Below AO mg/L Hardness as CaCO3 130 mg/L (extractable)

Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

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Lot ID: 1242552

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Project Name: **CLC Well**

4545 Blackcomb Way Control Number: Project Location: Whistler, BC, Canada Date Received:

Dec 1, 2017 V0N 1B4 LSD: Date Reported: Dec 6, 2017 Accounts Payable P.O.: 683957 Report Number: 2248007

Sampled By: Proj. Acct. code:

Company:

Attn:

Reference Number 1242552-1

> Sample Date November 30, 2017

Sample Time 11:30 **Sample Location**

CLC Well / 5.0 °C **Sample Description**

Sample Matrix **Drinking Water**

Nominal Detection Guideline Guideline Limit Limit Comments **Analyte** Units Result **Routine Water - Continued Total Dissolved Solids** Extractable 158 1 mg/L

Approved by:

Mathieu Simoneau

Mothis

Page 3 of 3 **EXOVA**

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242552

4545 Blackcomb Way Project Name: CLC Well Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017 V0N 1B4 LSD: Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.: 683957 Report Number: 2248007

Sampled By: Proj. Acct. code:

Company:

Method of Analysis		
Method Name	Reference	Method Date Analysis Location Started
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B Dec 2, 2017 Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B Dec 2, 2017 Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B Dec 2, 2017 Exova Surrey
Anions by IEC in water (Surrey)	АРНА	* Ion Chromatography with Chemical Dec 1, 2017 Exova Surrey Suppression of Eluent Cond., 4110 B
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	 Metals & Trace Elements by ICP-AES, Dec 1, 2017 Exova Surrey 6010C
Total and E-Coli - Colilert - DW (Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B Dec 1, 2017 Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	* Determination of Trace Elements in Dec 1, 2017 Exova Surrey Waters and Wastes by ICP-MS, 200.8
True Color in water (Surrey)	АРНА	 * Spectrophotometric - Single Wavelength Dec 2, 2017 Exova Surrey Method, 2120 C
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 B Dec 1, 2017 Exova Surrey

^{*} Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

• Dec 06, 2017 - The analysis of water sample 1242552-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel: (604) 938-7593	
Whistler Mountain - Chic Pea	Fax: (604) 938-7532	
Premises Address	Inspection Date	Time Spent
4545 Blackcomb Way	April 24, 2018	1 hour
Whistler, BC V0N 1B4		
Operator (Person in Charge)		
Na Tai Perdue		
Inspection Type Evaluation		
Evaluation		
Observed Violations		
There are no observed violations.		
There are no observed violations.		
Section Details		
Section Details		
Comments		
This is a year end summary report for the Chic Pea water s	vetem. This system convides	the Chie Boo
food premises on Whistler Mountain. A non potable water s		lile Chilc Fea
1000 premises on whistier wountain. A non potable water s	system services the tollets.	
The Operating Permit for the Drinking Water system contai	ns the following conditions:	
Maintain a free chlorine residual throughout the distribution		
Monitor for E. Coli and Total Coliform semi monthly and in a		/ monitoring plan
Review and update the Emergency Response Plan annuall		
Monitor cross connection control program for potable and n	iot potable water systems in (Shic Pea.
A chemical analysis of the well source water was conducted		
Operational Guidelines, Maximum Acceptable Concentration		
Drinking Water Guidelines with the exception of Iron, which	n was above the aesthetic ob	jective. A 2017
water monitoring plan schedule has been provided. A total	of 16 samples were collected	d from the
distribution system, which exceeds the frequency listed as a		
semi-monthly. The 2017 sample range report indicates bac		
accordance with the potable water quality standard of the B		
	3	Ĭ
Annual Reports for this system have been submitted in a tir	mely manner, and the 2016 a	nnual report has
been provided. The 2017 Annual Report is due on June 30		'
	, = 0 : 0 :	
Please update your Emergency Response plan to include the	he current list of VCH contac	ts provided with
this report.		
e e epe M		
Action Taken		
Information Exchanged		
Hazard Rating For Your Facility:	☐ High ☐ Moderate ☐ Low	
mazaru nating For Tour Facility.	ingii 🗀 woderate 🖂 Low	
DWO		
DWO Printed Name		
.lames Whalen		

Report No. Page 1 of 1

Sample Range Report

Vancouver Coastal Health

Facility Name: Whistler Mountain - Chic Pea Date Range: Jan 1 2017 to Dec 31 2017

Operator Na Tai Perdue

4545 Blackcomb Way Whistler, BC V0N 1B4

Sampling Site	Date Collected	Total (Coliform	E. Co	li Fecal Coliform
		-	-		
Chic Pea					
Restaurant, Whistler					
Mountain					
<u> </u>	17/01/2017	ı	_1	L1	
	31/01/2017	=	_ · _1	L1	
	14/02/2017		_1	 L1	
	28/02/2017	=	_ · _1	 L1	
	14/03/2017		_1	L1	
	28/03/2017	I	_1	L1	
	11/04/2017	I	_1	L1	
	12/06/2017	i	_1	L1	
	17/07/2017	i	_1	L1	
	31/07/2017	I	_1	L1	
	14/08/2017	I	_1	L1	
	29/08/2017	I	_1	L1	
	12/09/2017	I	_1	L1	
	24/10/2017	I	_1	L1	
	20/11/2017		T		
	18/12/2017	<u> </u>	<u>_1</u> 0	<u>L1</u> 0	
	Total Positive:		0	0	
Result Values:	E - estimate	d	L - less than		G - greater than
		-			G. G
Samples that contain	total coliform:	0			0.00% of total
Samples that contain		0			0.00% of total
Samples that contain		0			0.00% of total
Number of consecutive		0			
contain total coliform:					
Number of samples the		0/0			
coliform in last 30 day					
Total number of samp	oles:	16			

Comments:

Environmental Health Officer Apr 24 2018

FOR FURTHER INFORMATION PLEASE CALL: Cindy Watson (604) 892-2293

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Report Transmission Cover Page

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242549

4545 Blackcomb Way Project Name: Chic Pea Well Control Number:

Whistler, BC, CanadaProject Location:Date Received:Dec 1, 2017V0N 1B4LSD:Date Reported:Dec 6, 2017Accounts PayableP.O.:683957Report Number:2248002

Sampled By: Proj. Acct. code:

Company:

Attn:

Contact	Company	Address				
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way				
	Whistler & Blackcomb Mountain Resort Ltd.	Mark de DO VOVADA				
		Whistler, BC V0N 1B4				
		Phone: (604) 932-3141 Fax: (604) 932-0416				
		Email: apinvoice@vailresorts.com				
Delivery	<u>Format</u>	<u>Deliverables</u>				
Email - Single Report	PDF	Invoice				
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way				
	Whistler & Blackcomb Mountain Resort Ltd.					
		Whistler, BC V0N 1B4				
		Phone: (604) 938-7593 Fax: (604) 938-7532				
		Email: nperdue@vailresorts.com				
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>				
Email - Single Report	PDF	COA				
Email - Single Report	PDF	Invoice				
Email - Single Report	PDF	Test Report				

Notes To Clients:

• Dec 06, 2017 - The analysis of water sample 1242549-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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Lot ID: 1242549

Dec 1, 2017

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Control Number: 4545 Blackcomb Way Project Name: Chic Pea Well

Whistler, BC, Canada Project Location: Date Received:

LSD:

V0N 1B4 Date Reported: Dec 6, 2017 Attn: Accounts Payable P.O.: 683957 Report Number: 2248002

Proj. Acct. code: Sampled By:

Company:

Reference Number 1242549-1

> Sample Date November 30, 2017

Sample Time 10:30 **Sample Location**

Sample Description Chic Pea Well / 5.0 °C

Drinking Water Sample Matrix

		Sample Matrix	Dilliking Water	Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.033	0.001	0.1	Below OG
Antimony	Extractable	mg/L	< 0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0005	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0003	0.0001	1	Below MAC
Boron	Extractable	mg/L	< 0.002	0.002	5	Below MAC
Cadmium	Extractable	mg/L	< 0.00001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	< 0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0008	0.0005	1.0	Below AO
Lead	Extractable	mg/L	0.00018	0.00001	0.01	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Uranium	Extractable	mg/L	0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	< 0.00005	0.00005		
Zinc	Extractable	mg/L	0.0028	0.0005	5.0	Below AO
Microbiological Analysis						
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate	Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	8.4	0.05		
Routine Water						
pH - Holding Time			Exceeded			
рН	at 25 °C		7.85		7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	295	1		
Calcium	Extractable	mg/L	60	0.01		
Iron	Extractable	mg/L	0.53	0.004	0.3	Above AO
Magnesium	Extractable	mg/L	0.97	0.02		
Manganese	Extractable	mg/L	0.012	0.001	0.05	Below AO
Potassium	Extractable	mg/L	0.17	0.04		
Silicon	Extractable	mg/L	4.1	0.005		
Sodium	Extractable	mg/L	2.9	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	83	5		
Chloride	Dissolved	mg/L	5.18	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.05	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.01	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	63.9	0.1	500	Below AO
Hardness	as CaCO3	mg/L	150	1		
	(extractable)	Ü				

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Lot ID: 1242549

Date Reported:

Dec 1, 2017

Dec 6, 2017

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: Chic Pea Well Control Number:

Project Location: Whistler, BC, Canada Date Received:

V0N 1B4 LSD:

Attn: Accounts Payable P.O.: 683957 Report Number: 2248002

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242549-1

> Sample Date November 30, 2017

Sample Time 10:30

Sample Location

Chic Pea Well / 5.0 °C **Sample Description**

Sample Matrix **Drinking Water**

Nominal Detection Guideline Guideline Limit Limit Comments **Analyte** Units Result **Routine Water - Continued Total Dissolved Solids** Extractable 194 1 mg/L

Approved by:

Mathieu Simoneau

Mothis

Page 3 of 3 **EXOVA**

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242549

4545 Blackcomb Way Project Name: Chic Pea Well Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017

V0N 1B4 LSD: Date Reported: Dec 6, 2017

Accounts Payable P.O.: 683957 Report Number: 2248002

Sampled By: Proj. Acct. code:

Company:

Attn:

Method of Analysis			
Method Name	Reference	Method Date Analysis Location Started	I
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B Dec 2, 2017 Exova S	urrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B Dec 2, 2017 Exova S	urrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B Dec 2, 2017 Exova S	urrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Dec 1, 2017 Exova S Suppression of Eluent Cond., 4110 B	urrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	 Metals & Trace Elements by ICP-AES, Dec 1, 2017 Exova S 6010C 	urrey
Total and E-Coli - Colilert - DW (Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B Dec 1, 2017 Exova S	urrey
Trace Metals (extractable) in Water (Surrey)	US EPA	 Determination of Trace Elements in Dec 1, 2017 Exova S Waters and Wastes by ICP-MS, 200.8 	urrey
True Color in water (Surrey)	APHA	 * Spectrophotometric - Single Wavelength Dec 2, 2017 Exova S Method, 2120 C 	urrey
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 B Dec 1, 2017 Exova S	urrey

^{*} Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

• Dec 06, 2017 - The analysis of water sample 1242549-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page.

Results relate only to samples as submitted.

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WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel: (604) 938-7661	
Whistler Mountain - Roundhouse Lodge	Fax: (604) 938-7532	
Premises Address	Inspection Date	Time Spent
4545 Blackcomb Way	April 24, 2018	1 hour
Whistler, BC V0N 1B4		
Operator (Person in Charge)		
Na Tai Perdue		
Inspection Type		
Evaluation		
Observed Violations		
There are no observed violations.		
Continu Dataila		1
Section Details		
To .		
Comments		
This is a 2017 year end summary inspection report for the Roundhou		
services the Roundhouse Lodge and Alpine Shop on Whistler Mount	tain. The sources supp	lying the
water system are wells 1,4, and 5.		
The Operating Permit for this Drinking Water system contains the following	llowing conditions:	
Monitor for E. Coli and Total Coliform semi monthly and in accordance	ce with monitoring plan	
Review and update the Emergency Response Plan annually.		
Prepare a Cross Connection Control Plan		
A chemical analysis of the well source water was conducted in Dece		
below the Operational Guidelines, Maximum Acceptable Concentrati	ons and Aesthetic Obje	ectives of the
Canadian Drinking Water Guidelines. A 2017 water monitoring plan	schedule has been sub	mitted. A
total of 52 samples were collected from the distribution system, whic	h would exceed the free	quency listed
as a condition of the Operating Permit as semi-monthly for each of the	ne 2 sample sites based	d on 12
months of operation. The 2017 sample range report indicates bacter	iological monitoring res	ults are in
accordance with the potable water quality standards of the BC Drinki		
	9	9
Annual Reports for this system have been submitted in a timely man	ner, a copy of the 2016	annual report
has been completed. The 2017 Annual Report is due on June 30th, 2		
, , ,		
The Emergency Response Plan is complete and up to date. Please	update vour Emergenc	v Response
plan to include the current list of VCH contacts provided with this rep		,
	···	
Action Taken		
☐ Information Exchanged		
Horord Poting For Vous Fooility	Madayata Milayy	
Hazard Rating For Your Facility:	Moderate 🗵 Low	
Грwо		
DWO		
DWO Printed Name		
DANO I HIREO INGINE		

Report No. Page 1 of 2

James Whalen

Report No. Page 2 of 2

Sample Range Report

Vancouver Coastal Health

Facility Name: Whistler Mountain - Roundhouse Lodge

Date Range: Jan 1 2017 to Dec 31 2017

Operator Na Tai Perdue

4545 Blackcomb Way Whistler, BC V0N 1B4

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Roundhouse Restaurant, Whistler				
<u>Mountain</u>				
	1/3/2017	L1	L1	
	1/17/2017	L1	L1	
	1/31/2017	L1	L1	
	2/14/2017	L1	L1	
	2/28/2017	L1	L1	
	3/14/2017	L1	L1	
	3/28/2017	L1	L1	
	4/11/2017	L1	L1	
	4/25/2017	L1	L1	
	5/10/2017	L1	L1	
	5/24/2017	L1	L1	
	6/6/2017	L1	L1	
	7/4/2017	L1	L1	
	7/17/2017	L1	L1	
	7/31/2017	L1	L1	
	8/14/2017	L1	L1	
	8/29/2017	L1	L1	
	9/12/2017	L1	L1	
	9/26/2017	L1	L1	
	10/11/2017	L1	L1	
	10/24/2017	L1	L1	
	11/7/2017	L1	L1	
	11/20/2017	T		
	12/4/2017	L1	L1	
	12/18/2017	<u>L1</u>	<u>L1</u> 0	
	Total Positive:	0	0	
Prep Kitchen, Whistler Mountain				
	6/20/2017	L1	L1	
	6/20/2017	<u>L1</u>	<u>L1</u>	
	Total Positive :	0	0	

Whistler Alpine
Shop, Whistler
Mountain

1/3/2017	L1	L1
1/17/2017	L1	L1
1/31/2017	L1	L1
2/14/2017	L1	L1
2/28/2017	L1	L1
3/14/2017	L1	L1
3/28/2017	L1	L1
4/11/2017	L1	L1
4/25/2017	L1	L1
5/10/2017	L1	L1
5/24/2017	L1	L1
6/6/2017	L1	L1
7/4/2017	L1	L1
7/17/2017	L1	L1
7/31/2017	L1	L1
8/14/2017	L1	L1
8/29/2017	L1	L1
9/12/2017	L1	L1
9/26/2017	L1	L1
10/11/2017	L1	L1
10/24/2017	L1	L1
11/7/2017	L1	L1
11/20/2017	T	
12/4/2017	L1	L1
12/18/2017	<u>L1</u>	<u>L1</u>
otal Positive:	0	0

Result Values:	E - estimate	d	L - less than	G - greater than	
Samples that contain		0		0.00% of total	
Samples that contain Samples that contain		0		0.00% of total 0.00% of total	
Number of consecuti contain total coliform		0			
Number of samples to coliform in last 30 da		0/0			
Total number of sam	ples:	52			

Comments:

Environmental Health Officer Apr 24 2018

FOR FURTHER INFORMATION PLEASE CALL: James Whalen (604) 932-3202

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Report Transmission Cover Page

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242548

4545 Blackcomb Way Project Name: RHL Well # 1 Control Number:

Whistler, BC, CanadaProject Location:Date Received:Dec 1, 2017V0N 1B4LSD:Date Reported:Dec 6, 2017Accounts PayableP.O.:683957Report Number:2248001

Sampled By: Proj. Acct. code:

Company:

Attn:

Contact	Company	Address				
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way				
	Whistler & Blackcomb Mountain Resort Ltd.	Mark de DO VOVADA				
		Whistler, BC V0N 1B4				
		Phone: (604) 932-3141 Fax: (604) 932-0416				
		Email: apinvoice@vailresorts.com				
Delivery	<u>Format</u>	<u>Deliverables</u>				
Email - Single Report	PDF	Invoice				
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way				
	Whistler & Blackcomb Mountain Resort Ltd.					
		Whistler, BC V0N 1B4				
		Phone: (604) 938-7593 Fax: (604) 938-7532				
		Email: nperdue@vailresorts.com				
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>				
Email - Single Report	PDF	COA				
Email - Single Report	PDF	Invoice				
Email - Single Report	PDF	Test Report				

Notes To Clients:

• Dec 06, 2017 - The analysis of water sample 1242548-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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Lot ID: 1242548

Date Reported:

Dec 1, 2017

Dec 6, 2017

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Control Number: 4545 Blackcomb Way Project Name: RHL Well #1

Whistler, BC, Canada Project Location: Date Received:

V0N 1B4 LSD:

Attn: Accounts Payable P.O.: 683957 Report Number: 2248001

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242548-1

> Sample Date November 30, 2017

Sample Time 11:00

Sample Location

Sample Description RHL Well # 1 / 5.0 °C

Sample Matrix **Drinking Water**

		Sample Matrix	Dilliking water	Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.001	0.001	0.1	Below OG
Antimony	Extractable	mg/L	0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0002	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0007	0.0001	1	Below MAC
Boron	Extractable	mg/L	0.005	0.002	5	Below MAC
Cadmium	Extractable	mg/L	0.00001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	< 0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	< 0.0005	0.0005	1.0	Below AO
Lead	Extractable	mg/L	0.00003	0.00001	0.01	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Uranium	Extractable	mg/L	< 0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	< 0.00005	0.00005		
Zinc	Extractable	mg/L	0.0035	0.0005	5.0	Below AO
Microbiological Analysi	s					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate	Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.22	0.05		
Routine Water						
pH - Holding Time			Exceeded			
рН	at 25 °C		7.39		7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	262	1		
Calcium	Extractable	mg/L	49	0.01		
Iron	Extractable	mg/L	0.034	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	1.3	0.02		
Manganese	Extractable	mg/L	0.004	0.001	0.05	Below AO
Potassium	Extractable	mg/L	0.29	0.04		
Silicon	Extractable	mg/L	3.2	0.005		
Sodium	Extractable	mg/L	4.0	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	72	5		
Chloride	Dissolved	mg/L	6.29	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.02	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.27	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	54.6	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	130	1		-

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Lot ID: 1242548

Date Reported:

Dec 1, 2017

Dec 6, 2017

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: RHL Well #1 Control Number:

Whistler, BC, Canada Project Location: Date Received:

V0N 1B4 LSD:

Attn: Accounts Payable P.O.: 683957 Report Number: 2248001

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242548-1

> Sample Date November 30, 2017

Sample Time 11:00

Sample Location

Sample Description RHL Well # 1 / 5.0 °C

Sample Matrix **Drinking Water**

Nominal Detection Guideline Guideline Limit Limit Comments **Analyte** Units Result **Routine Water - Continued Total Dissolved Solids** Extractable 168 1 mg/L

Approved by:

Mathieu Simoneau

Mothis

Page 3 of 3 **EXOVA**

Lot ID: 1242548

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: RHL Well # 1 Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017 V0N 1B4 LSD: Date Reported: Dec 6, 2017 Accounts Payable P.O.: 683957 Report Number: 2248001

Sampled By: Proj. Acct. code:

Company:

Attn:

Method of Analysis				
Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	Dec 2, 2017	Exova Surrey
Anions by IEC in water (Surrey)	APHA	 Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B 	Dec 1, 2017	Exova Surrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	 Metals & Trace Elements by ICP-AES, 6010C 	Dec 1, 2017	Exova Surrey
Fotal and E-Coli - Colilert - DW Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B	Dec 1, 2017	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	 Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 	Dec 1, 2017	Exova Surrey
True Color in water (Surrey)	APHA	 * Spectrophotometric - Single Wavelength Method, 2120 C 	Dec 2, 2017	Exova Surrey
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 E	Dec 1, 2017	Exova Surrey

^{*} Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

• Dec 06, 2017 - The analysis of water sample 1242548-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page.

Results relate only to samples as submitted.

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Report Transmission Cover Page

Lot ID: 1242562 Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: RHL Well #4 Control Number:

Project Location: Whistler, BC, Canada Date Received: Dec 1, 2017 V0N 1B4 LSD: Date Reported: Dec 6, 2017 P.O.: 683957 Report Number: 2248016

Accounts Payable Sampled By: Proj. Acct. code:

Company:

Attn:

Contact	Company	Address			
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way			
	Whistler & Blackcomb Mountain Resort Ltd.	Whistler, BC V0N 1B4	5	(004) 000 0440	
		Phone: (604) 932-3141 Email: apinvoice@vailresorts.com	Fax:	(604) 932-0416	
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>			
Email - Single Report	PDF	Invoice			
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way			
	Whistler & Blackcomb Mountain Resort Ltd.	M/highlan DO VON 4D4			
		Whistler, BC V0N 1B4	_		
		Phone: (604) 938-7593	Fax:	(604) 938-7532	
		Email: nperdue@vailresorts.com			
Delivery	<u>Format</u>	<u>Deliverables</u>			
Email - Single Report	PDF	COA			
Email - Single Report	PDF	Invoice			
Email - Single Report	PDF	Test Report			

Notes To Clients:

• Dec 06, 2017 - The Total Coliforms result in sample 1242562-1 exceeded the maximum acceptable concentration (MAC) as specified by the February 2017 Guidelines for Canadian Drinking Water Quality.

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4545 Blackcomb Way

Whistler, BC, Canada



Lot ID: 1242562

Dec 1, 2017

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

RHL Well #4 Project Name:

Control Number: Project Location: Date Received:

V0N 1B4 LSD:

Date Reported: Dec 6, 2017 Attn: Accounts Payable P.O.: 683957 Report Number: 2248016

Sampled By: Proj. Acct. code:

Company:

Reference Number 1242562-1

> Sample Date November 30, 2017

Sample Time 10:45

Sample Location

Sample Description RHL Well # 4 / 5.0 °C

Sample Matrix **Drinking Water**

		Sample Matrix	Dilliking water	Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.008	0.001	0.1	Below OG
Antimony	Extractable	mg/L	< 0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	<0.0001	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0005	0.0001	1	Below MAC
Boron	Extractable	mg/L	0.002	0.002	5	Below MAC
Cadmium	Extractable	mg/L	< 0.00001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	0.00061	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0013	0.0005	1.0	Below AO
Lead	Extractable	mg/L	0.00006	0.00001	0.01	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Uranium	Extractable	mg/L	< 0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	< 0.00005	0.00005		
Zinc	Extractable	mg/L	0.0015	0.0005	5.0	Below AO
Microbiological Analysi	s					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	1.0	1.0	0 per 100 mL	Above MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate	Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.94	0.05		
Routine Water						
pH - Holding Time			Exceeded			
рН	at 25 °C		8.27		7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	119	1		
Calcium	Extractable	mg/L	16	0.01		
Iron	Extractable	mg/L	0.37	0.004	0.3	Above AO
Magnesium	Extractable	mg/L	0.29	0.02		
Manganese	Extractable	mg/L	0.013	0.001	0.05	Below AO
Potassium	Extractable	mg/L	0.10	0.04		
Silicon	Extractable	mg/L	4.4	0.005		
Sodium	Extractable	mg/L	8.2	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	18	5		
Chloride	Dissolved	mg/L	0.27	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.05	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	<0.01	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	32.5	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	42	1		

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Lot ID: 1242562

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Project Name: RHL Well #4 Control Number:

4545 Blackcomb Way Whistler, BC, Canada Project Location: Date Received:

Dec 1, 2017 V0N 1B4 LSD: Date Reported: Dec 6, 2017 Accounts Payable P.O.: 683957 Report Number: 2248016

Sampled By: Proj. Acct. code:

Company:

Attn:

Reference Number 1242562-1

Sample Date November 30, 2017

Sample Time 10:45

Sample Location

Sample Description RHL Well # 4 / 5.0 °C

Sample Matrix **Drinking Water**

Nominal Detection Guideline Guideline Limit Limit Comments **Analyte** Units Result **Routine Water - Continued Total Dissolved Solids** Extractable 80 1 mg/L

Approved by:

Mathieu Simoneau

Mothis

Page 3 of 3

1242562

Lot ID:

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Project Name: RHL Well #4

4545 Blackcomb Way Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017 V0N 1B4 LSD: Date Reported: Dec 6, 2017 Accounts Payable P.O.: 683957 Report Number: 2248016

Sampled By: Proj. Acct. code:

Company:

Attn:

Method of Analysis				
Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	Dec 2, 2017	Exova Surrey
Anions by IEC in water (Surrey)	АРНА	 * Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B 	Dec 1, 2017	Exova Surrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	 Metals & Trace Elements by ICP-AES, 6010C 	Dec 1, 2017	Exova Surrey
Total and E-Coli - Colilert - DW (Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B	Dec 1, 2017	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	 Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 	Dec 1, 2017	Exova Surrey
True Color in water (Surrey)	APHA	 * Spectrophotometric - Single Wavelength Method, 2120 C 	Dec 2, 2017	Exova Surrey
Turbidity - Water (Surrey)	АРНА	* Turbidity - Nephelometric Method, 2130 E	Dec 1, 2017	Exova Surrey

^{*} Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

• Dec 06, 2017 - The Total Coliforms result in sample 1242562-1 exceeded the maximum acceptable concentration (MAC) as specified by the February 2017 Guidelines for Canadian Drinking Water Quality.

> The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

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Report Transmission Cover Page

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242551

4545 Blackcomb Way Project Name: RHL Well # 5 Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017 VON 1B4 LSD: Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.: 683957 Report Number: 2248005

Sampled By: Proj. Acct. code:

Company:

Contact	Company	Address			
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way			
	Whistler & Blackcomb Mountain Resort Ltd.	Whistler, BC V0N 1B4 Phone: (604) 932-3141 Email: apinvoice@vailresorts.com	Fax:	(604) 932-0416	
Delivery	<u>Format</u>	<u>Deliverables</u>			
Email - Single Report	PDF	Invoice			
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way			
	Whistler & Blackcomb Mountain Resort Ltd.	Whistler, BC V0N 1B4 Phone: (604) 938-7593 Email: nperdue@vailresorts.com	Fax:	(604) 938-7532	
Delivery	<u>Format</u>	<u>Deliverables</u>			
Email - Single Report	PDF	COA			
Email - Single Report	PDF	Invoice			
Email - Single Report	PDF	Test Report			

Notes To Clients:

• Dec 06, 2017 - The analysis of water sample 1242551-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.

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Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

RHL Well #5 Project Name:

Control Number:

4545 Blackcomb Way Whistler, BC, Canada

Project Location:

Date Received: Dec 1, 2017

Lot ID: 1242551

V0N 1B4

LSD:

Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.:

Report Number: 2248005

Sampled By: Company: Proj. Acct. code:

Reference Number 1242551-1

Sample Date

November 30, 2017

Sample Time

10:00

683957

Sample Location Sample Description

RHL Well # 5 / 5.0 °C

Sample Matrix

Drinking Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable		Onits	Nesuit			
Aluminum	Extractable	mg/L	0.007	0.001	0.1	Below OG
Antimony	Extractable	mg/L	<0.007	0.0001	0.006	Below MAC
Arsenic	Extractable		0.0002	0.0002	0.006	Below MAC
Barium	Extractable	mg/L	0.0019	0.0001		Below MAC
		mg/L			1	
Boron	Extractable	mg/L	<0.002	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	<0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	<0.0005	0.0005	1.0	Below AO
Lead	Extractable	mg/L	0.00003	0.00001	0.01	Below MAC
Selenium	Extractable	mg/L	0.0003	0.0002	0.05	Below MAC
Uranium	Extractable	mg/L	<0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00030	0.00005		
Zinc	Extractable	mg/L	0.0315	0.0005	5.0	Below AO
Microbiological Analysis	S					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate	Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	2.6	0.05		
Routine Water						
pH - Holding Time			Exceeded			
pН	at 25 °C		7.77		7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	106	1		
Calcium	Extractable	mg/L	16	0.01		
Iron	Extractable	mg/L	0.017	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	0.58	0.02		
Manganese	Extractable	mg/L	<0.001	0.001	0.05	Below AO
Potassium	Extractable	mg/L	0.14	0.04		
Silicon	Extractable	mg/L	2.0	0.005		
Sodium	Extractable	mg/L	1.4	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	18	5		_ 3.5 10
Chloride	Dissolved	mg/L	15.6	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.08	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	10	Below MAC
Sulfate (SO4)	Dissolved	mg/L	8.3	0.01	500	Below MAC
Hardness	as CaCO3	· ·	6.3 41	1	500	Delow AO
i iai ul icss	(extractable)	mg/L	41	į.		

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Lot ID: 1242551

Report Number: 2248005

Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Project Name: RHL Well #5 Control Number:

4545 Blackcomb Way

Project Location: Whistler, BC, Canada Date Received: Dec 1, 2017 V0N 1B4 LSD: Date Reported: Dec 6, 2017

683957

Sampled By: Proj. Acct. code:

Accounts Payable

Company:

Attn:

Reference Number 1242551-1

Sample Date November 30, 2017

Sample Time 10:00

Sample Location

P.O.:

Sample Description RHL Well # 5 / 5.0 °C

Sample Matrix **Drinking Water**

Nominal Detection Guideline Guideline Limit Limit Comments **Analyte** Units Result **Routine Water - Continued Total Dissolved Solids** Extractable 58 1 mg/L

Approved by:

Mathieu Simoneau

Mothis

Page 3 of 3 **EXOVA**

Lot ID: 1242551

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name: RHL Well # 5 Control Number:

Whistler, BC, CanadaProject Location:Date Received:Dec 1, 2017V0N 1B4LSD:Date Reported:Dec 6, 2017Accounts PayableP.O.:683957Report Number:2248005

Sampled By: Proj. Acct. code:

Company:

Attn:

Method of Analysis				
Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	Dec 2, 2017	Exova Surrey
Anions by IEC in water (Surrey)	АРНА	 * Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B 	Dec 1, 2017	Exova Surrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	 Metals & Trace Elements by ICP-AES, 6010C 	Dec 1, 2017	Exova Surrey
Total and E-Coli - Colilert - DW (Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B	Dec 1, 2017	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	 Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 	Dec 1, 2017	Exova Surrey
True Color in water (Surrey)	APHA	 * Spectrophotometric - Single Wavelength Method, 2120 C 	Dec 2, 2017	Exova Surrey
Turbidity - Water (Surrey)	АРНА	* Turbidity - Nephelometric Method, 2130 E	Dec 1, 2017	Exova Surrey

^{*} Reference Method Modified

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US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

• Dec 06, 2017 - The analysis of water sample 1242551-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

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WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel: (604) 938-7661		
Whistler Mountain - Raven's Nest	Fax: (604) 938-7532		
Premises Address	Inspection Date	Time Spent	
4545 Blackcomb Way	April 24, 2018	1 hour	
Whistler, BC V0N 1B4			
Operator (Person in Charge)			
Na Tai Perdue			
Inspection Type Evaluation			
Evaluation			
Observed Violations			
There are no observed violations.			
There are no observed violations.			
Section Details			
Jection Details			
Comments			
This is a 2017 year end summary inspection report for Raven's Nest	water evetem which se	nvices	
Raven's Nest food premises on Whistler Mountain.	Water system willon so	IVICES	
Maverts Nest 1000 premises on writisher Mountain.			
The Operating Permit for this Drinking Water system contains the fol	lowing conditions:		
The Operating Fermit for this Difficing water system contains the for	iowing conditions.		
Monitor supply for Total Coliform and E. Coli semi monthly and in ac	cordance with monitorin	na nlan	
Review and update the Emergency Response Plan annually.	JOI GAILLE WILL THOUILGIN	ig piaii.	
Maintain a free chlorine residual in the distribution system at all times	•		
Maintain à tree chionne residual in the distribution system at an times 	i.		
A chemical analysis of the well source water was conducted in Dece	mbor 2017 All regulte a	era halaw the	
Operational Guidelines, Maximum Acceptable Concentrations and A			
Drinking Water Guidelines. A 2017 water monitoring plan schedule I			
samples were collected from the distribution system, which would ex condition of the Operating Permit as semi-monthly based on 12 mon			
range report indicates bacteriological monitoring results are in accord	dance with the potable v	water quality	
standards of the BC Drinking Water Protection Regulation.			
Annual Danasta for this contains have been a charitted in a time of more			
Annual Reports for this system have been submitted in a timely man	ner, a copy of the 2016	annuai report	
is available. The 2017 Annual Report is due on June 30th, 2018.			
A recently and stad Emparagray Decreases plantic available. Blacca		Decrees	
A recently updated Emergency Response plan is available. Please updated to the support of VOII acceptants are sided with this area.		Response	
plan to include the current list of VCH contacts provided with this rep	ort.		
[a.i. = .			
Action Taken			
☐ Information Exchanged			
Hazard Rating For Your Facility: 🗌 High 🗌	☐ Moderate ☐ Low		
DWO			
DWO District Alleger			
DWO Printed Name			
James whalen			

Report No. Page 1 of 1

Sample Range Report

Vancouver Coastal Health

Facility Name: Whistler Mountain - Raven's Nest

Date Range: Jan 1 2017 to Dec 31 2017

Operator Na Tai Perdue

C/O 4545 Blackcomb Way Whistler, BC V0N 1B4

Sampling Site	Date Collected	Total	Coliform	E. Co	li Fecal Coliform
Raven's Nest					
Restaurant - Faucet,					
	1/3/2017		L1	L1	
	1/17/2017		L1	L1	
	1/31/2017		L1	L1	
	2/14/2017		L1	L1	
	2/28/2017		L1	L1	
	3/14/2017		L1	L1	
	3/28/2017		L1	L1	
	4/11/2017		L1	L1	
	7/4/2017		L1	L1	
	7/17/2017		L1	L1	
	8/29/2017		L1	L1	
	9/11/2017		L1	L1	
	10/24/2017		L1	L1	
	11/20/2017		T		
	12/4/2017		L1	L1	
	12/18/2017		<u>L1</u>	<u>L1</u>	
	Total Positive :		0	0	
Raven's Nest,					
Whistler Mountain					
	7/31/2017		L1	L1	
	8/14/2017		<u>L1</u>	<u>L1</u>	
	Total Positive:	· ·	0	0	
Result Values:	E - estimate		L - less thai	_	G - greater than
nesuit values.	E - estimate	u	L - less tilai	I	G - greater than
Samples that contain	total coliform:	0			0.00% of total
Samples that contain	e. coli:	0			0.00% of total
Samples that contain		0			0.00% of total
Number of consecutive		0			
contain total coliform					
Number of samples t	hat contain total	0/0			
coliform in last 30 day					
Total number of sam	oles:	18			

Comments:

Environmental Health Officer Jun 5 2018

FOR FURTHER INFORMATION PLEASE CALL: James Whalen (604) 932-3202

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Report Transmission Cover Page

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID: 1242569

4545 Blackcomb Way Project Name: Ravens Nest Well Control Number:

Whistler, BC, Canada Project Location: Date Received: Dec 1, 2017 VON 1B4 LSD: Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.: 683957 Report Number: 2248021

Sampled By: Proj. Acct. code:

Company:

Contact	Company	Address
Accounts Payable	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way
	Whistler & Blackcomb Mountain Resort Ltd.	Will de Boyon (B)
		Whistler, BC V0N 1B4
		Phone: (604) 932-3141 Fax: (604) 932-0416
		Email: apinvoice@vailresorts.com
Delivery	<u>Format</u>	<u>Deliverables</u>
Email - Single Report	PDF	Invoice
NaTai Perdue	Whistler Blackcomb Holdings Inc. dba	4545 Blackcomb Way
	Whistler & Blackcomb Mountain Resort Ltd.	
		Whistler, BC V0N 1B4
		Phone: (604) 938-7593 Fax: (604) 938-7532
		Email: nperdue@vailresorts.com
Delivery	<u>Format</u>	<u>Deliverables</u>
Email - Single Report	PDF	COA
Email - Single Report	PDF	Invoice
Email - Single Report	PDF	Test Report

Notes To Clients:

• Dec 06, 2017 - The analysis of water sample 1242569-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

4545 Blackcomb Way Project Name:

Whistler, BC, Canada Project Location:

V0N 1B4 LSD:

Attn: Accounts Payable P.O.:

Sampled By: Proj. Acct. code:

Company:

1 Toject Education.

683957

Ravens Nest Well

Date Received: Dec 1, 2017
Date Reported: Dec 6, 2017

Control Number:

Lot ID: 1242569

Report Number: 2248021

Reference Number 1242569-1
Sample Date November 30, 2017

Sample Time 11:00

Sample Location

Sample Description Ravens Nest Well / 5.0 °C

Sample Matrix Drinking Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.003	0.001	0.1	Below OG
Antimony	Extractable	mg/L	< 0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0007	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0007	0.0001	1	Below MAC
Boron	Extractable	mg/L	0.004	0.002	5	Below MAC
Cadmium	Extractable	mg/L	< 0.00001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	< 0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	< 0.0005	0.0005	1.0	Below AO
Lead	Extractable	mg/L	< 0.00001	0.00001	0.01	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Uranium	Extractable	mg/L	< 0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	< 0.00005	0.00005		
Zinc	Extractable	mg/L	0.0007	0.0005	5.0	Below AO
Microbiological Analysi	s					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate	Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.18	0.05		
Routine Water						
pH - Holding Time			Exceeded			
рН	at 25 °C		7.87		7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	240	1		
Calcium	Extractable	mg/L	42	0.01		
Iron	Extractable	mg/L	0.036	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	1.1	0.02		
Manganese	Extractable	mg/L	0.013	0.001	0.05	Below AO
Potassium	Extractable	mg/L	0.50	0.04		
Silicon	Extractable	mg/L	5.0	0.005		
Sodium	Extractable	mg/L	3.7	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	80	5		
Chloride	Dissolved	mg/L	0.33	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.03	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	<0.01	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	40.6	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	110	1		

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Analytical Report

Bill To: Whistler Blackcomb Holdings Inc. Project ID:

Lot ID: 1242569 Control Number:

4545 Blackcomb Way Whistler, BC, Canada

Project Location:

Date Received:

V0N 1B4

LSD:

Dec 1, 2017 Date Reported: Dec 6, 2017

Attn: Accounts Payable P.O.:

Report Number: 2248021

Sampled By:

Proj. Acct. code:

Project Name:

Company:

1242569-1

683957

Ravens Nest Well

Sample Date

November 30, 2017

Sample Time

11:00

Sample Location

Reference Number

Sample Description

Ravens Nest Well / 5.0 °C

Sample Matrix

Drinking Water

		•		Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Routine Water - Continu	ed					
Total Dissolved Solids	Extractable	mg/L	150	1		

Approved by:

Mathieu Simoneau **Operations Manager**

Mathier

Page 3 of 3 **EXOVA**

1242569

Methodology and Notes

Bill To: Whistler Blackcomb Holdings Inc. Project ID: Lot ID:

4545 Blackcomb Way Project Name: Ravens Nest Well Control Number:

Whistler, BC, CanadaProject Location:Date Received:Dec 1, 2017V0N 1B4LSD:Date Reported:Dec 6, 2017Accounts PayableP.O.:683957Report Number:2248021

Sampled By: Proj. Acct. code:

Company:

Attn:

Method of Analysis				
Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	Dec 2, 2017	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	Dec 2, 2017	Exova Surrey
Anions by IEC in water (Surrey)	APHA	 Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B 	Dec 1, 2017	Exova Surrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	 Metals & Trace Elements by ICP-AES, 6010C 	Dec 1, 2017	Exova Surrey
Fotal and E-Coli - Colilert - DW Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B	Dec 1, 2017	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	 Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 	Dec 1, 2017	Exova Surrey
True Color in water (Surrey)	APHA	 * Spectrophotometric - Single Wavelength Method, 2120 C 	Dec 2, 2017	Exova Surrey
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 E	Dec 1, 2017	Exova Surrey

^{*} Reference Method Modified

References

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Guidelines

Guideline Description Health Canada GCDWQ

Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, February 2017

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Potable Water Emergency Contacts

All water inquiries should be directed first to the Water Purveyors.

Snowmaking is responsible for all on hill water supply and will respond from 905-8146, Radio ch. #4/6

Water Purveyors / Snowmaking											
Snow	making	604-9	905-8146								
Superv	risor	NaTai Perdue	938- 7593	c.905-8409							
Manag	ger	Bob Pasch	938- 7234	c.905-9129							
Opera	itor	Kevin Phelps	938- 7661	c.388-9523							

Vancouver Coastal Health											
Water Officer	James Whalen	w.935-5318	c.698-5422								
Water Officer	Len Clarkson	c.815.6841	w.892-7528								
EHO	Angela Whalen	w.892-2293	c.698-5467								
Manager	Mark Ritson	w.983-6751	c.219-7359								

Food & Beverage Contacts											
F&B Director	Paul Street	938-7239	c.905-9912								
Food Safety	James Linklater	938-7241	c.905-8329								
GM - Bars	Mike Varrin	938-7386	c.932-7821								
F&B Administrator	Rebecca Robbins	938-7353									
Catering Manager	Stephanie Spence	905-3039	c.778-997-8784								

Whis	tler/Blackcom	b Contac	ts
Electrical	Laird Brown	938-7208	c.932-7977
Plumbing	Roy Molby	938-7254	c.905-9054

Whistler Restaurants											
<u>Roundhouse</u>											
General Manager	Doug Burnett	905- 2376	c.907-1190								
Asst. Manager	Dan Villeneuve	905-2373									
Chef	Larry Johnson	90	5-2375								
	Chic Pea										
O	Funis a Octob		2202								
Supervisor	Enrico Cadei	90	5-2383								
	<u>Ravens Ne</u>	<u>st</u>									
Supervisor	Ashlee Ford	90	5- 2176								
<u>Child</u>	dren's Learnin	g Cente	<u>r</u>								
Manager	Becky Seiler	4019	c.902-6629								
	Ollie's										
Manager	Ria Jones	c.2	18-7428								

Blackcomb Restaurants												
<u>Rendezvous</u>												
Manager	James Paton	938-7400	c.902-4087									
Chef	Waide Wright	938	7435									
<u>Horstman Hut</u>												
Manager	Alex Quinlan	902	6633									
Supervisor	Rachel Cutler	938	7404									
	Glacier Cre	e <u>k</u>										
Manager	Sheila Kearns	938-7410	c.698-5607									
Chef	Harvey Upton	938	7429									
	<u>Crystal Hu</u>	<u>ıt</u>										
Manager	Alex Quinlan	902	6633									
Supervisor	Brighid Brophy	938	7408									

Municipal Water Systems										
Dusty's & Backside										
Manager	Joshua Kearns	905-2146								
Supervisor	Harri Dobrochodow	905-2145								
	Garibaldi Lift Comp	<u>any</u>								
Manager	Mike Wilson	905- 2062								
Supervisor	Derek Pretty	905- 2050								
	EBCB									
Supervisor	Ria Jones	905- 2065								
		Lindatas								

Municipal Water Systems									
Merlin's & Wizard Grill									
Chef	Jordano Palacio	938-7706							
Manager	<u>18 Below</u> Maren Oetling	938- 7264							

Whistler/Blackcomb Potable Water 2017 Schedule

Whistler Mountain Updated March 2017

Site Name	Source	System Name	Sample Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Reservoir Storage
Whistler Alpine Shop	Deep Well	Whistler Mountain - Roundhouse Lodge	Bi-Weekly													
Roundhouse Lodge	Deep Well	Whistler Mountain - Roundhouse Lodge	Bi-Weekly													
RHL Well #1	Deep Well	Whistler Mountain - Roundhouse Lodge	Semi-Annually													100 000 gallons
RHL Well #4	Deep Well	Whistler Mountain - Roundhouse Lodge	Semi-Annually													
RHL Well #5	Deep Well	Whistler Mountain - Roundhouse Lodge	Semi-Annually													
Chic Pea	Deep Well	Whistler Mountain - Chic Pea	Bi-Weekly													10,000 gallana
Chic Pea Well	Deep Well	Whistler Mountain - Chic Pea	Semi-Annually													10 000 gallons
Raven's Nest	Deep Well	Whistler Mountain - Ravens Nest	Bi-Weekly													40,000 gallana
Raven's Nest Well	Deep Well	Whistler Mountain - Ravens Nest	Semi-Annually													10 000 gallons
Children's Learning Center	Deep Well	Whistler Mountain - Children's Learning Center	Bi-Weekly													
Olympic Station	Deep Well	Whistler Mountain - Children's Learning Center	Bi-Weekly													9 000 gallons
CLC Well	Deep Well	Whistler Mountain - Children's Learning Center	Semi-Annually													

Blackcomb Mountain

Site Name	Source	System Name		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Reservoir Storage
Horstman Hut	Deep Well	Blackcomb - Jersey Cream	Bi-Weekly													300 gallons
Horstman Patrol Hut	Deep Well	Blackcomb - Jersey Cream	Bi-Weekly													50 gallons
Blackcomb Alpine Shop	Deep Well	Blackcomb - Jersey Cream	Bi-Weekly													
Rendezvous	Deep Well	Blackcomb - Jersey Cream	Bi-Weekly													20 000 gallons
JC Well #1	Deep Well	Blackcomb - Jersey Cream	Semi-Annually													20 000 gallons
JC Well #2	Deep Well	Blackcomb - Jersey Cream	Semi-Annually													
Crystal Hut	Deep Well	Blackcomb - Glacier Creek WSS	Bi-Weekly													10 000 gallons
Glacier Creek	Deep Well	Blackcomb - Glacier Creek WSS	Bi-Weekly													30 000 gallons
GC Well	Deep Well	Blackcomb - Glacier Creek WSS	Semi-Annually													30 000 gallons

Wells	Pumping	Year
	Round	

Facility Open to Public	Facility Closed to Public	UV Treated (NSF)	Un-Chlorinated	Chlorinated
Facility Open to Public	Facility Closed to Public	Water Storage	Water Storage	Water Storage