



DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period:	January 1, 2014– December 31, 2014
Water System Name: (Facility Name)	Apex Mountain Resort Water System
Water Supplier Name: (as per permit)	Apex Mountain Resort Water System
Water System Owner:	Apex Mountain Resort
Email Address:	shawn@apexresort.com
Phone Number:	250 292-8222

Bacteriological Testing Completed During This Reporting Period:

Bacteriological Results attached to this report -Yes

Immediate Reporting Standard Failure (E. coli positive test result)

Immediate Reporting Standard Failure (IRSF) recorded – **no positive E. coli test**

Chemical Testing Completed During This Reporting Period:

Most recent chemical analysis attached to this report – No

Chemical Parameters Measured Above (exceeding) the Guidelines:

Chemical parameters tested exceed the Maximum Acceptable Concentrations (MAC) or Aesthetic Objectives – No

ADDITIONAL TESTING

Description of parameter & reason for sampling	Comments
May 28 2014 tested water for UV transmittance.	Further analysis for future water treatment upgrades

WATER QUALITY COMPLAINTS – NONE

Date	Water quality complaint (i.e. taste, odour, colour, etc)	Corrective action taken

OPERATION PROBLEMS - YES

Incident Date	Problem	Actions Taken	Corrected By
Month of December 2014	Loss of pressure or water	Water was added to lower reservoir. The problem was due to malfunction in the pressure valve at the lower reservoir. The valve tot the lower reservoir was later readjusted. Interior Health was notified and a boil water notice advisory was issued. Bacteriological samples were taken and sent to CARO for testing. Boil water notice was lifted after testing came back negative.	Apex Maintenance Crew

Water System Description

Sources of Raw Water

Groundwater

✓ Surface water

Other (specify)

Does the drinking Water System have Disinfection? Yes No

Disinfection Methods

✓ Chlorination

Ultraviolet light

Ozonation

Other (specify)

Does the drinking Water System have Filtration Yes No

Filter Type

✓ Cartridge filter (1 micron, 5 micron, 10 micron)

✓ Sand Filtration

Reverse Osmosis

Carbon Filter

Other (specify)

MAJOR EXPENSES INCURRED DURING THE PERIOD COVERED BY THE REPORT

Major Expenses	Details
New chlorine pump at filtration	Old pump failed
New over flow screening on upper reservoir	To de-chlorinate water when draining upper reservoir and to eliminate the entry of rodents
New fencing around lower reservoir	To protect the reservoir
Relocated the well input into the lower reservoir	To allow more contact time and to mitigate any dead water
Source to Tap Report	Completed and distributed

ADDITIONS / CHANGES TO THE SYSTEM THAT HAVE BEEN MADE FOR THIS REPORTING PERIOD

Additions/Changes	Details
Two new sampling stations were ordered but did not arrive in 2014	
Four employees to water distribution course	All successful in completion

Water Samples 2014

Date Sampled	Location	Chlorine Free	Coliforms Total	E.Coli
Jan 1	Maintenance Shop	.85	<1	<1
Jan 6	Filtration Tank 4	1.33	<1	<1
Jan 6	Filtration Raw Water	N/A	3	<1
Jan 13	Administration Office	.47	<1	<1
Jan 20	Filtration Tank 4	.86	<1	<1
Jan 27	Maintenance Shop	1.06	<1	<1
Jan 27	Filtration Raw Water	N/A	<1	<1
Feb 3	Administration Office	.52	<1	<1
Feb 11	Maintenance Shop	.82	<1	<1
Feb 17	Administration Office	.40	<1	<1
Feb 24	Filtration Tank 4	1.18	<1	<1
March 3	Maintenance Shop	.83	<1	<1
March 10	Administration Office	.44	<1	<1
March 26	Maintenance Shop	N/A	1	1
March 31	Administration Office	.44	<1	<1
April 16	Filtration Tank 4	.97	<1	<1
April 16	Filtration Raw Water	N/A	<1	<1
April 22	Maintenance Shop	.89	<1	<1
April 30	Administration Office	.19	<1	<1
May 21	Maintenance Shop	N/A	<1	<1
May 28	Filtration Building	N/A	<1	<1
June 5	101 Whitetail Rd	N/A	<1	<1
June 8	Maintenance Shop	2.00	<1	<1
June 25	Administration Office	.29	<1	<1
July 6	Filtration Tank 4	1.44	<1	<1
July 6	Raw Water Lake	N/A	<1	<1
July 6	Raw Creek	N/A	<1	<1
July 23	Filtration Tank 4	1.01	<1	<1
July 23	Maintenance Shop	.86	<1	<1
July 30	Maintenance Shop	.15	<1	<1
Aug 6	Raw Creek	N/A	<1	<1

Aug 6	Filtration Tank 4	N/A	<1	<1
Aug 12	Maintenance Shop	N/A	<1	<1
Aug 22	Administration Office	.58	<1	<1
Aug 28	Maintenance Shop	.67	<1	<1
Sept 11	Maintenance Shop	.97	<1	<1
Sept 18	Administration Office	.22	<1	<1
Sept 30	Maintenance Shop	N/A	<1	<1
Oct 5	Maintenance Shop	.43	<1	<1
Oct 21	Filtration Plant	1.57	<1	<1
Oct 21	Administration Office	.39	<1	<1
Oct 27	Filtration Plant	1.6	<1	<1
Oct 27	Maintenance Shop	N/A	<1	<1
Oct 27	Administration Office	.27	<1	<1
Nov 6	Sample received after 24 hrs		<1	<1
Nov 12	Filtration Tank 4	2.24	<1	<1
Nov 17	Maintenance Shop	1.39	<1	<1
Dec 3	Maintenance Shop	1.23	<1	<1
Dec 11	Maintenance Shop	1.09	<1	<1
Dec 18	Filtration Plant	1.35	<1	<1
Dec 29	Filtration Plant	N/A	<1	<1
Dec 29	Maintenance Shop	N/A	<1	<1
Dec 29	Maintenance Shop	N/A	<1	<1
Dec 29	101 Whitetail Rd	N/A	<1	<1
Dec 29	Cahill Rd	N/A	<1	<1

MONTHLY WATER VOLUMES

Month	Creek Gallons	Lake Gallons
January	0	1077065
February	0	1224529
March	0	1405144
April	0	483948
May	0	255028
June	417	276674
July	2000818	893782
August	612124	1346
September	202913	0
October	324174	3324
November	202913	213642
December	3004	1511854

IMPROVEMENTS/REMEDIAL ACTIONS

Improvements or remedial actions required by the Drinking Water Officer

Required action	Completion date
Two sampling stations to be installed	Summer 2015
UV treatment	Summer 2015/2016

FUTURE IMPROVEMENTS

Future water system improvements planned listed below:

Future Plans	Planned Completion date
UV treatment	2015/2016

EMERGENCY RESPONSE PLAN CAN BE OBTAINED BY APEX MOUNTAIN RESORT OFFICE

Updated in December 2014

METHOD USED TO NOTIFY USER OF ANNUAL REPORT

This is available at the Main Apex Resort Mountain Main Office and the website