



Making a difference...together

SURFSIDE PARK ESTATES WATER SERVICE COMMITTEE

Notice of Meeting on **Thursday, June 30, 2022 at 3:00 p.m.**
Goldstream Conference Room, 479 Island Highway, Victoria, BC

For members of the **public who wish to listen to the meeting** via telephone please call **1-833-353-8610** and enter the **Participant Code 1911461 followed by #**. You will not be heard in the meeting room but will be able to listen to the proceedings.

L. Vallee (Chair)

P. Brent, Acting Electoral Area
Director

W. Mulvin

K. Wall

AGENDA

1. APPROVAL OF AGENDA

2. ADOPTION OF MINUTES3

Recommendation: That the minutes of the February 24, 2022 meeting be adopted.

3. CHAIR'S REMARKS

4. PRESENTATIONS/DELEGATIONS

The public are welcome to attend Committee meetings in-person.

Delegations will have the option to participate electronically. Please complete the [online](#) application for "Addressing the Board" on our website and staff will respond with details.

Alternatively, you may email your comments on an agenda item to the Surfside Park Estates Water Service Committee at ivsadministration@crd.bc.ca.

Requests must be received no later than 4:30 p.m. two calendar days prior to the meeting.

5. SENIOR MANAGER'S REPORT

- Bylaw No. 4449 – A Bylaw to Amend Appointment for the Surfside Park Estates Water Service Committee (Bylaw No. 3131)
- Verbal discussion to introduce draft Local Service Area Water Conservation Bylaw

6. COMMITTEE BUSINESS

6.1. Project and Operations Update6

There is no recommendation. This report is for information only.

6.2. 2021 Annual Report.....8

There is no recommendation. This report is for information only.

7. CORRESPONDENCE

*To ensure quorum, advise **Mikayla Risvold 250.474.9518** if you cannot attend.*

**Surfside Park Estates Water Service Committee
Agenda – June 30, 2022**

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8. NEW BUSINESS

9. ADJOURNMENT

Next Meeting: November 2022



Making a difference...together

MINUTES OF A MEETING OF THE Surfside Park Estates Water Service Committee, held Thursday, February 24, 2022 at 3:00 p.m., In the Goldstream Meeting Room, 479 Island Highway, Victoria, BC

PRESENT: **Committee Members:** L. Vallee (Chair); W. Mulvin (EP); K. Wall (EP); P. Brent (EP) for D. Howe, Electoral Area Director
Staff: M. McCrank, Senior Manager, Wastewater Infrastructure Operations; J. Marr, Acting Senior Manager, Infrastructure Engineering; D. Puskas, Manager, Capital Projects; D. Dionne, Administrative Coordinator; M. Risvold, Committee and Administrative Clerk (Recorder)

REGRETS: R. Noyes

EP = Electronic Participation

The meeting was called to order at 3:00.

1. ELECTION OF CHAIR

The Senior Manager called for nominations for the position of Chair of the Surfside Park Estates Water Service Committee for 2022.

W. Mulvin nominated L. Vallee. L. Vallee accepted the nomination.

The Senior Manager called for nominations a second time.

The Senior Manager called for nominations a third and final time.

Hearing no further nominations, the Senior Manager declared L. Vallee Chair of the Surfside Park Estates Water Service Committee for 2022 by acclamation.

2. APPROVAL OF AGENDA

MOVED by W. Mulvin, **SECONDED** by K. Wall,
 That the agenda be approved.

CARRIED

3. ADOPTION OF MINUTES

MOVED by K. Wall, **SECONDED** by P. Brent,
 That the minutes of the October 29, 2021 meeting be adopted.

CARRIED

4. CHAIR'S REMARKS

The Chair welcomed everyone to the meeting, and thanked K. Wall for joining the committee. The Chair noted the water system is performing quite well.

5. PRESENTATIONS/DELEGATIONS

There were no presentations or delegations.

6. SENIOR MANAGER'S REPORT

M. McCrank provided the committee meeting schedule for the year, advising there will be three meetings held in 2022. The meetings will be held in the months of February, June and in the Fall. Additional meetings remain at the call of the Chair.

7. COMMITTEE BUSINESS

7.1. Project and Operations Update

D. Puskas provided a Capital Projects update.

The committee suggested reviewing the corner of Lot 20 as a potential opportunity for tank storage. Discussion ensued.

M. McCrank provided an Operational update.

Staff responded to a question from the committee regarding connections within the red zone. Staff advised that connections to water are not allowed within the red zone and staff have not approved connections to any property located in the red zone.. Staff advised the red zone is located from 371 Wood Dale Drive to 427 Wood Dale Drive.

Discussion ensued regarding applications received for connection from parcels within the red zone.

MOVED by K. Wall, **SECONDED** by W. Mulvin,
The Surfside Park Estates Water Service Committee receives this report for information.

CARRIED

8. CORRESPONDENCE

There was no correspondence.

9. NEW BUSINESS

The committee asked if there are any plans for replacing the existing water treatment plant (WTP). Staff advised a condition assessment is completed as part of the system review, and there are no pressing issues. A site visit was conducted in November and there are no concerns with the existing WTP. The water quality is good, and the arsenic filter media is replaced approximately four times per year (frequency based on water quality results).

10. ADJOURNMENT

MOVED by W. Mulvin, **SECONDED** by K. Wall,
That the February 24, 2022 meeting be adjourned at 3:24.

CARRIED

CHAIR

SECRETARY



REPORT TO SURFSIDE PARK ESTATES WATER SERVICE COMMITTEE MEETING OF THURSDAY, JUNE 30, 2022

SUBJECT Capital Project Status Reports and Operational Updates – June 2022

ISSUE SUMMARY

To provide the Surfside Park Estates Water Service Committee with capital project status reports and operational updates.

BACKGROUND

The Surfside Park Estates Water System is located on the south west side of Mayne Island in the Southern Gulf Islands Electoral Area and provides drinking water to approximately 67 customers. Capital Regional District (CRD) Integrated Water Services is responsible for the overall operation of the water system with day-to-day operation and maintenance, design and construction of water system facilities provided by the CRD Infrastructure Engineering and Operations Divisions. The quality of drinking water provided to customers in the Surfside Park Estates Water System is overseen by the CRD Water Quality Division.

CAPITAL PROJECT UPDATE

21-01 | System Review

Project Description: Review the system with tank location and accessibility taken into account.

Project Rationale: Review the location and replacement of the existing tanks, with accessibility taken into account, resulting in recommendations for future improvements. Staff are to review options for tank replacement for maintenance and maintaining a resilient water system. Tank sizing, location, pumping requirements will all be factored to ensure a sustainable water supply can be effectively delivered.

Project Update and Milestones:

Milestone	Completion Date
Project will commence when the CRD Board approves the project budget	March 16, 2022
Staff are compiling background documents (flow requirements, zoning, record drawings and easements) for project delivery	Ongoing

OPERATIONAL UPDATE

This is an operational update reporting period from February 2022 through May 2022.

- Leak detection activities, including issuing a water service interruption notification to the public, performed on May 12. A significant leak(s) has been identified on the supply line

Surfside Park Estates Water Service Committee – June 30, 2022
Capital Project Status Reports and Operational Updates – June 2022

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between the reservoir and Mariners Way. This particular leak accounts for approximately 30% of the daily water production for the service. Further effort is necessary to pinpoint the leak and undertake repairs.

- Emergency response to high and low chlorine level alarms during this period at the water treatment plant (WTP).
- Corrective maintenance performed on the WTP recirculation line. A fitting was found to be split.
- Emergency response to hydro power outage that occurred on May 19. The standby generator was placed into operation to fill the water tank.
- Corrective maintenance performed on the WTP local human machine interface (HMI) panel. A communications switch was found to have failed which resulted in the HMI panel to not operate. Further investigative work determined the failure of the communications switch was likely the result of using the standby generator a few days prior which was found to have a faulty voltage regulator. The standby generator is being sent in for servicing.

RECOMMENDATION

There is no recommendation. This report is for information only.

Submitted by:	Ian Jesney, P. Eng., Senior Manager, Infrastructure Engineering
Submitted by:	Matthew McCrank, M.Sc., P.Eng., PMP., Senior Manager, Wastewater Infrastructure Operations
Concurrence:	Ted Robbins, B.Sc., C.Tech., General Manager, Integrated Water Services

Surfside Water System

2021 Annual Report

CRD | Drinking Water

Introduction

This report provides a summary of the Surfside Park Estates Water Service for 2021 and includes a description of the service, summary of the water supply, demand and production, drinking water quality, operations highlights, capital project updates and financial report.

Service Description

The community of Surfside is a rural residential development located on Mayne Island in the Southern Gulf Islands Electoral Area which was originally serviced by a private water utility. In 2003 the service converted to the Capital Regional District (CRD). The Surfside Water Service (Figure 1) area is made up of 127 parcels of which 105 parcels can be inhabited encompassing a total area of approximately 25 hectares. Of the 105 parcels, 69 were connected to the water system in 2021; an increase of one connection from the previous year.

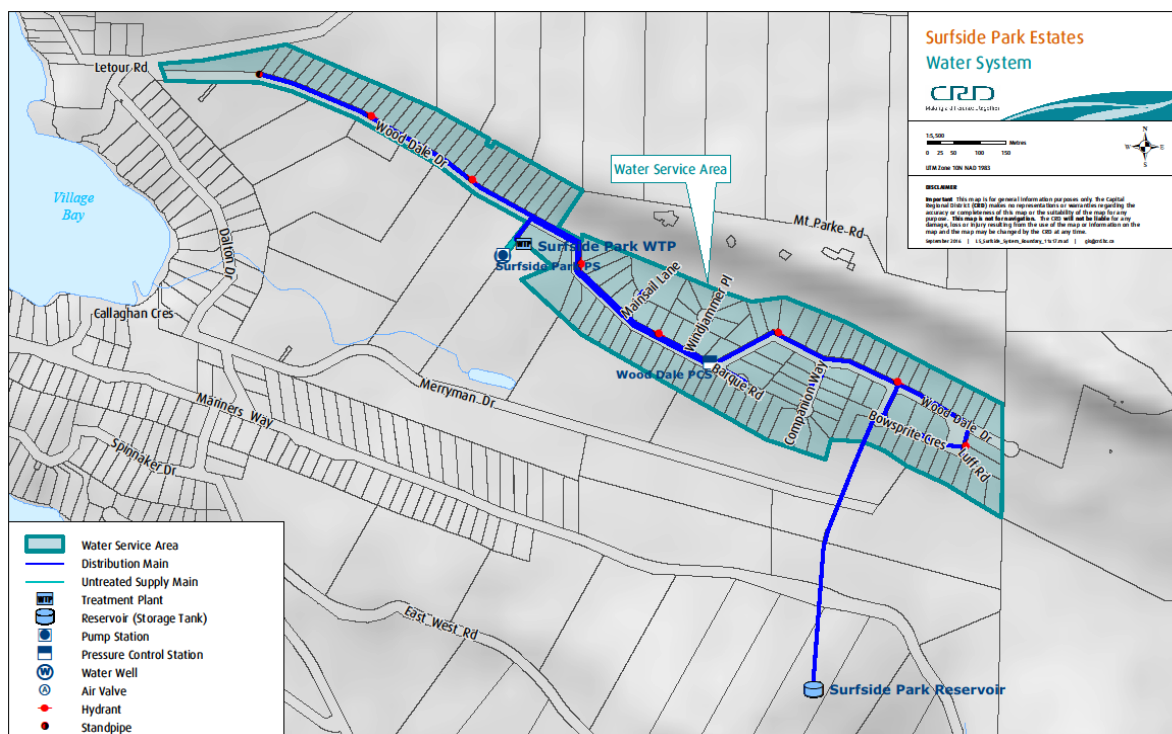


Figure 1: Surfside Park Estates Water Service

The Surfside water system is primarily comprised of:

- One groundwater well, related pumping and control equipment and building.
- Disinfection process equipment (filters, ultraviolet light and chlorine).
- Two steel storage tanks (total volume is 113 cubic meters).
- Distribution system (3,800 meters of water mains).
- Other water system assets: 68 service connections and water meters, five hydrants, three standpipes, 30 gate valves, one air release valve, Supervisory Control and Data Acquisition (SCADA) system and mobile generator.

Water Supply

Groundwater supply monthly water levels are highlighted for 2021 in Figure 2. Groundwater levels for 2021 were observed to be 20% to 30% lower for the period of June to October. These lower aquifer levels are likely the result of increasing drought conditions in which the Province declared level 4 drought conditions for the Southern Gulf Islands on July 9 and then increased this to level 5 August 31.

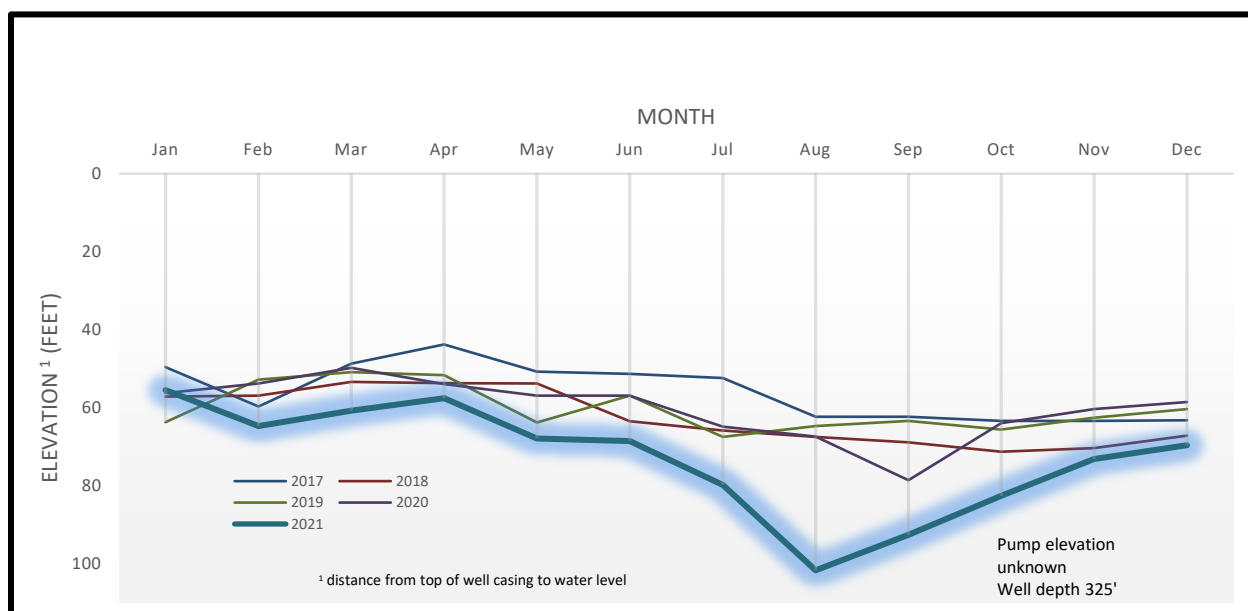


Figure 2: Surfside Park Estates Well #5A Groundwater Supply Monthly Water Level

Water Production and Demand

Referring to Figure 3, 12,450 cubic meters of water was extracted (water production) from the groundwater source (Well #5) in 2021; an 18% increase from the previous year and a 15% increase from the five year average. Water demand (customer water billing) for the service totaled 6,824 cubic meters of water; a 27% increase from the previous year and a 54% increase from the five year average. Water demand increase is primarily attributed to three properties identified in the first quarter of 2021 to have significant leaks on their systems. Property owners were contacted to inform them of their high water consumption. Leak repairs were completed promptly.

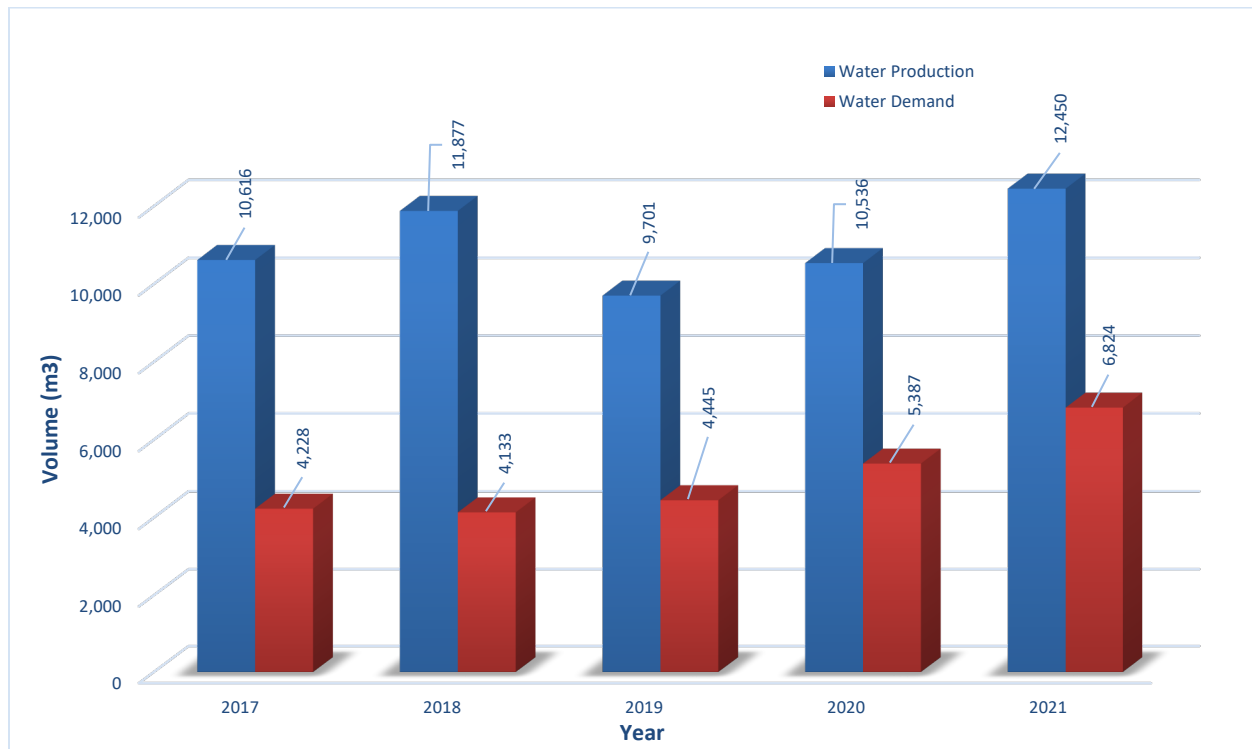


Figure 3: Surfside Park Estates Water Service Annual Water Production and Demand

The difference between annual water production and annual customer water demand is referred to as non-revenue water and can include water system leaks, water system maintenance and operational use (e.g. water main flushing, filter system backwashing), potential unauthorized use and fire-fighting use.

The 2021 non-revenue water (5,626 cubic meters) represents approximately 45% of the total water production for the service area. Approximately 264 cubic meters of water can be attributed to operational use so the remaining amount (43%) of non-revenue water is considered significant for a small water service. It is important to note that leak detection and repair efforts continue to be prioritized for the service. Water system leaks located and repaired in 2021 resulted in a slight reduction of non-revenue water of approximately 3% from the previous year.

Figure 4 below illustrates the monthly water production for 2021 along with the historical water production information for the previous four years. Typically, the monthly water production trend is greatest during the summer period (June to September). However, monthly water production for the most part is consistent throughout the year.

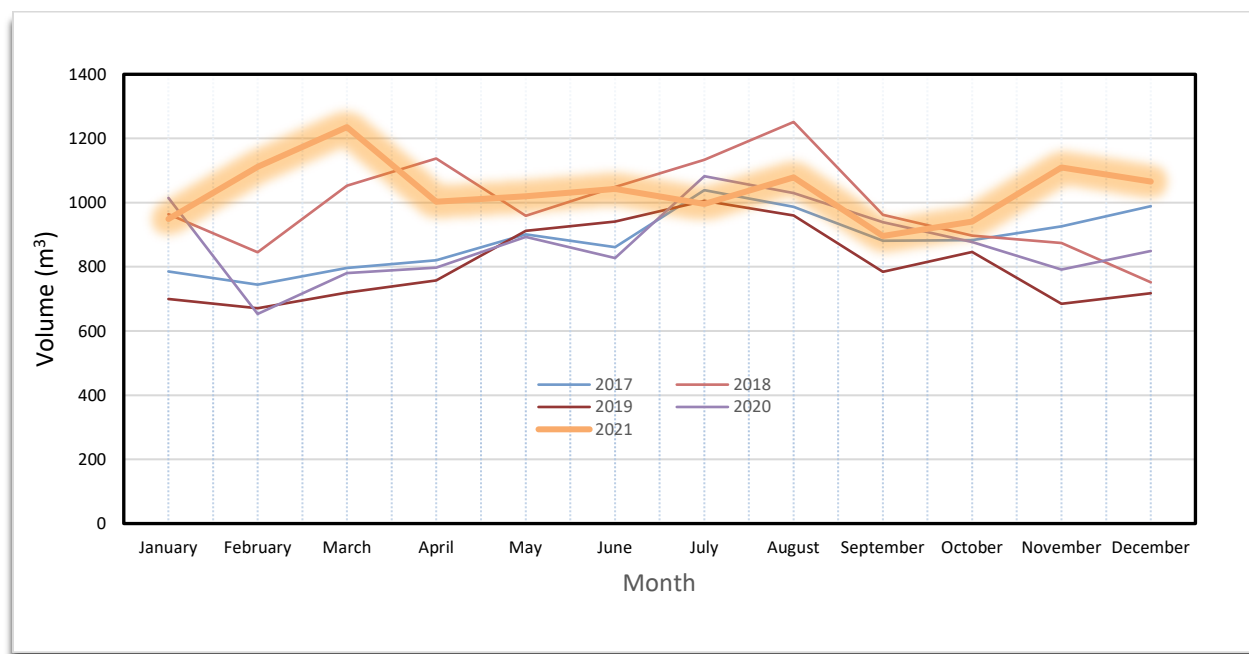


Figure 4: Surfside Park Estates Water Service Monthly Water Production

Drinking Water Quality

Staff completed the water quality monitoring program at Surfside based on the regulatory requirements and system specific risks. Samples were collected at regular frequencies from both the raw water as well as from a number of sampling stations at the treatment plant and in the distribution system. The samples were submitted for various analyses to the CRD's Water Quality Lab or to external laboratories for special analyses such as disinfection by-products or metals.

The water system performed well in 2021 and consistently supplied drinking water of good quality to its customers. None of the raw water samples tested positive for *E.coli* or total coliform bacteria in 2021. All treated water samples tested negative for *E.coli* or total coliform bacteria in 2021. The raw water exhibited consistently high arsenic concentrations as well as elevated manganese concentrations. The existing treatment successfully reduced these concentrations to levels well below the health related and aesthetic limits in the Guidelines for Canadian Drinking Water Quality.

The data below provides a summary of the water quality characteristics in 2021:

Raw Water:

- Results from Well #5, the primary source, indicated that produced water contained no *E.coli* bacteria and no total coliform bacteria.
- The raw water continued to have naturally high concentrations of arsenic and manganese. The arsenic concentration in the raw water ranged from 32.4 to 91.6 µg/L. Manganese had a median concentration of 32.8 µg/L.
- The raw water turbidity was low with a median of 0.35 Nephelometric Turbidity Unit (NTU).
- The raw water was slightly hard (median hardness 34.5 mg/L (CaCO₃)).

Treated Water:

- The treated water was safe to drink with no *E. coli* or total coliform bacteria in any sample.
- The treated water turbidity was very low with a median of < 0.1 NTU.
- The arsenic concentration after treatment was always below the maximum allowable concentration (MAC) of 10 µg/L. The annual median arsenic concentration was 2.46 µg/L.
- Very low manganese concentrations indicate the effectiveness of the filtration system in terms of arsenic and manganese removal.
- The annual average levels of the disinfection by-product total trihalomethanes (TTHM) were well below the MAC.
- The free chlorine residual concentrations ranged from 0.16 to 2.06 mg/L in the distribution system indicating good secondary disinfection in most parts of the system except for some dead-end sections with older water age.

Table 1 and 2 below provide a summary of the 2021 raw and treated water test results.

Water quality data collected from this drinking water system can be reviewed on the CRD website:

<https://www.crd.bc.ca/about/data/drinking-water-quality-reports>

Operational Highlights

The following is a summary of the major operational issues that were addressed by CRD Integrated Water Services staff:

- No significant operational issues to report for the service in 2021.
- Ongoing leak detection and repair program (Capital Work).

Capital Projects Update

The Capital Projects that were in progress or completed in 2021 include:

- System Review Project – Staff started gathering record documentation to complete the system review, which is to be completed in 2022.

Financial Report

Please refer to the attached 2021 Statement of Operations and Reserve Balances.

Revenue includes parcel taxes (Transfers from Government), fixed user fees (User Charges), and interest on savings (Interest earnings), a transfer from the Operating Reserve Fund, and miscellaneous revenue such as late payment charges (Other revenue).

Expenses include all costs of providing the service. General Government Services include budget preparation, financial management, utility billing and risk management services. CRD Labour and Operating Costs include CRD staff time as well as the costs of equipment, tools and vehicles. Debt servicing costs are interest and principal payments on long term debt. Other Expenses include all other costs to administer and operate the water system, including insurance, supplies, water testing and electricity.

The difference between Revenue and Expenses is reported as Net revenue (expenses). Any transfers to or from capital or reserve funds for the service (Transfers to Own Funds) are deducted from this amount and added to any surplus or deficit carry forward from the prior year, yielding an Accumulated Surplus (or deficit) that is carried forward to the following year.

Submitted by:	Matt McCrank, M.Sc., P.Eng., Senior Manager, Wastewater Infrastructure Operations
	Ian Jesney, P.Eng., Senior Manager, Infrastructure Engineering
	Glenn Harris, Ph.D., RPBio., Senior Manager, Environmental Protection
	Rianna Lachance, BCom, CPA, Senior Manager, Financial Services
Concurrence:	Ted Robbins, BSc, C.Tech, General Manager, Integrated Water Services

Attachment: 2021 Statement of Operations and Reserve Balances

For questions related to this Annual Report please email IWSAdministration@crd.bc.ca

Table 1

Table 1: 2021 Summary of Raw Water Test Results, Surfside Water System									
PARAMETER		2021 ANALYTICAL RESULTS				CANADIAN GUIDELINES	2011-2020 RESULTS		
Parameter	Units of Measure	Annual Median	Samples Analyzed	Range		≤ = Less than or equal to		Samples Analyzed	Range
Name	Measure	Median	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum
ND means Not Detected by analytical method used									
Physical Parameters									
Hardness as CaCO ₃	mg/L	34.5	4	28.7	41.9	No Guideline Required	42.8	33	18.2 - 73.0
Turbidity	NTU	0.35	9	0.2	0.85		0.43	25	0.12- 1.34
Water Temperature	deg C	6.5	48	5.2	6.8	15°C AO	10.6	126	6.0 - 21.6
pH	pH units	Not analyzed in 2021				AO pH 7.0 -10.5	8.7	27	7.0 - 9.0
Total Organic Carbon	mg/L	0.6	4	ND	0.78		0.83	17	ND - 4.89
Metals									
Aluminum	ug/L as Al	13..5	4	8.1	14.7	2900 MAC / 100 OG	15.9	33	ND - 71.0
Antimony	ug/L as Sb	ND	4	ND	ND	6 MAC	ND	33	ND
Arsenic	ug/L as As	56.2	12	32.4	91.6	10 MAC	42.2	139	ND - 73.5
Barium	ug/L as Ba	53.90	4	47.6	60	1000 MAC	60.2	33	28.0 - 81.0
Beryllium	ug/L as Be	ND	4	ND	ND		ND	33	ND
Bismuth	ug/L as Bi	ND	4	ND	ND		ND	24	ND
Boron	ug/L as B	1670	4	1540	1820	5000 MAC	1680	33	1.25 - 2100
Cadmium	ug/L as Cd	ND	4	ND	ND	5 MAC	ND	33	ND - 0.14
Calcium	mg/L as Ca	11.2	4	9.41	13.6	No Guideline Required	13.8	33	5.91 - 22.9
Chromium	ug/L as Cr	ND	4	ND	ND	50 MAC	ND	33	ND
Cobalt	ug/L as Co	ND	4	ND	ND		ND	33	ND - 30.0
Copper	ug/L as Cu	0.52	4	ND	0.57	2000 MAC / ≤ 1000 AO	0.69	33	ND - 52.0
Iron	ug/L as Fe	20.8	4	15.9	24.7	≤ 300 AO	29.1	34	ND - 102.0
Lead	ug/L as Pb	ND	4	ND	ND	5 MAC	ND	33	ND - 3.51
Lithium	ug/L as Li	62.6	4	61.60	69.10		62.7	8	50.4 - 70.5
Magnesium	mg/L as Mg	1.58	4	1.26	1.95	No Guideline Required	2.01	33	0.83 - 3.84
Manganese	ug/L as Mn	32.8	4	29.9	47.8	120 MAC / ≤ 20 AO	45	35	ND - 102.0
Molybdenum	ug/L as Mo	ND	4	ND	ND		ND	33	ND
Nickel	ug/L as Ni	ND	4	ND	ND		ND	33	ND
Potassium	mg/L as K	1.85	4	1.67	1.9		1.92	33	1.58 - 2.85
Selenium	ug/L as Se	ND	4	ND	1.24	50 MAC	ND	33	ND - 0.75
Silicon	ug/L as Si	7140	4	6950	7550		7,160	33	912 - 12800
Silver	ug/L as Ag	ND	4	ND	ND	No Guideline Required	ND	33	ND
Sodium	mg/L as Na	123.0	4	121	127	≤ 200 AO	123	33	13.10 - 152.0
Strontium	ug/L as Sr	257.8	4	209	277	7000 MAC	281	33	0.31 - 463.0
Sulfur	mg/L as S	17.1	4	15.30	19.5		16.8	33	11.7 - 22.0
Thallium	ug/L as Tl	ND	4	ND	ND		ND	24	ND
Tin	ug/L as Sn	ND	4	ND	ND		ND	33	ND
Titanium	ug/L as Ti	ND	4	ND	ND		ND	33	ND
Uranium	ug/L as U	ND	4	ND	ND	20 MAC	ND	24	ND
Vanadium	ug/L as V	ND	4	ND	ND		ND	33	ND
Zinc	ug/L as Zn	ND	4	ND	ND	≤ 5000 AO	ND	33	ND - 185.0
Zirconium	ug/L as Zn	ND	4	ND	ND		ND	24	ND
Microbial Parameters									
Indicator Bacteria									
Coliform, Total	CFU/100 mL	ND	12	ND	ND		ND	116	ND - 28
<i>E. coli</i>	CFU/100 mL	ND	12	ND	ND		ND	116	ND
Heterotrophic bacteria, 7 day	CFU/mL	Not analyzed in 2021							
Parasites									
<i>Cryptosporidium</i> , Total oocysts	oocysts/100 L	Last tested in 2015				Zero detection desirable	ND	7	ND
<i>Giardia</i> , Total cysts	cysts/100 L	Last tested in 2015				Zero detection desirable	ND	7	ND

Table 2

Table 2: 2021 Summary of Treated Water Test Results, Surfside Water System										
PARAMETER		2021 ANALYTICAL RESULTS					CANADIAN GUIDELINES	2011-2020 RESULTS		
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Range		≤ = Less than or equal to	Median	Samples Analyzed	Range Min.-Max.	
				Minimum	Maximum					
ND means Not Detected by analytical method used										
Physical Parameters										
Hardness	mg/L as CaCO3	32.4	8	25	42.8	AO pH 7.0 -10.5	34.3	34	25.1 - 55.9	
pH	pH units	7	1	7	7		8.5	20	7 - 8.7	
Turbidity	NTU	ND	12	ND	0.2		0.16	79	ND - 1.32	
Total Organic Carbon	mg/L	0.52	8	ND	0.65		ND	28	ND - 1.51	
Water Temperature	deg C	6.5	200	5.2	6.9	15°C AO	10.5	1210	4.4 - 24.2	
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	CFU/100 mL	ND	60	ND	ND	0 MAC	ND	257	ND	
E. coli	CFU/100 mL	ND	60	ND	ND	0 MAC	ND	257	ND	
Hetero. Plate Count, 7 day	CFU/1 mL	Not tested in 2021				No Guideline Required	ND	43	ND - 940	
Disinfectants										
Disinfectants										
Chlorine, Free Residual	mg/L as Cl2	0.52	200	0.16	2.06		0.58	1255	0.10 - 1.73	
Chlorine, Total Residual	mg/L as Cl2	0.82	14	0.31	1.31		0.63	1106	0.12 - 1.87	
Disinfection By-Products										
Disinfection Byproducts										
Bromodichloromethane	ug/L	3.4	8	1.7	7.5	100 MAC	4.6	29	1.1 - 18.0	
Bromoform	ug/L	4.5	8	1.9	9.1		8.4	29	1.9 - 12.0	
Chloroform	ug/L	2.1	8	ND	5		2.4	29	ND - 10.0	
Chlorodibromomethane	ug/L	4.95	8	3.3	14		9.1	29	1.8 - 14.0	
Total Trihalomethanes	ug/L	15	8	8.9	35		22	28	5.7 - 50.0	
Haloacetic Acids (HAAs)										
HAA5	ug/L	ND	4	ND	ND	80 MAC	ND	1	ND	
Metals										
Aluminum	ug/L as Al	4.5	8	ND	7.4	2900 MAC / 100 OG	4.6	33	ND - 25.9	
Antimony	ug/L as Sb	ND	8	ND	ND	6 MAC	ND	33	ND	
Arsenic	ug/L as As	2.46	17	ND	8.6	10 MAC	4.66	139	ND - 31.0	
Barium	ug/L as Ba	43.4	8	24.10	58.9	1000 MAC	50.4	33	3.2 - 69.9	
Beryllium	ug/L as Be	ND	8	ND	ND		ND	33	ND	
Bismuth	ug/L as Bi	ND	8	ND	ND		ND	33	ND	
Boron	ug/L as B	1785	8	1560	1930	5000 MAC	1750	33	1200 - 1840	
Cadmium	ug/L as Cd	ND	8	ND	ND	5 MAC	ND	33	ND	
Calcium	mg/L as Ca	10.1	8	7.8	13.4	No Guideline Required	10.4	34	7.62 - 18.0	
Chromium	ug/L as Cr	ND	8	ND	ND	50 MAC	ND	33	ND	
Cobalt	ug/L as Co	ND	8	ND	ND		ND	33	ND	
Copper	ug/L as Cu	2.68	8	2.17	17.9	2000 MAC / ≤ 1000 AO	3.51	33	1.68 - 21.8	
Iron	ug/L as Fe	6.35	8	ND	ND	≤ 300 AO	6.7	34	ND - 54.7	
Lead	ug/L as Pb	ND	8	ND	0.5	5 MAC	0.3	33	ND - 1.09	
Lithium	ug/L as Li	61.95	8	57.2	67.6		61.3	11	54.3 - 71.1	
Magnesium	mg/L as Mg	1.75	8	1.34	2.29	No Guideline Required	2.02	34	1.04 - 3.05	
Manganese	ug/L as Mn	ND	8	ND	ND	120 MAC / ≤ 20 AO	ND	34	ND - 25.0	
Molybdenum	ug/L as Mo	ND	8	ND	ND		ND	33	ND	
Nickel	ug/L as Ni	ND	8	ND	ND		ND	33	ND	
Potassium	mg/L as K	1.77	8	1.47	1.83		1.8	34	1.60 - 2.16	
Selenium	ug/L as Se	ND	8	ND	ND	50 MAC	ND	33	ND	
Silicon	ug/L as Si	6805	8	4990	7580		6,890.00	33	2350 - 8950	
Silver	ug/L as Ag	ND	8	ND	ND	No Guideline Required	ND	33	ND	
Sodium	mg/L as Na	126	8	115	132	≤ 200 AO	125.5	34	102.0 - 142.0	
Strontium	ug/L as Sr	265.5	8	215	350	7000 MAC	293	33	171.0 - 399.0	
Sulphur	mg/L as S	18.7	8	15.1	20.0		17.9	34	13.8 - 22.4	
Thallium	ug/L as Tl	ND	8	ND	ND		ND	33	ND	
Tin	ug/L as Sn	ND	8	ND	ND		ND	33	ND	
Titanium	ug/L as Ti	ND	8	ND	ND		ND	33	ND	
Uranium	ug/L as U	ND	8	ND	ND	20 MAC	ND	33	ND	
Vanadium	ug/L as V	ND	8	ND	ND		ND	33	ND	
Zinc	ug/L as Zn	8.1	8	ND	39.0	≤ 5000 AO	7.7	33	ND - 59.0	
Zirconium	ug/L	ND	8	ND	ND		ND	33	ND	

CAPITAL REGIONAL DISTRICT

SURFSIDE WATER

Statement of Operations (Unaudited)

For the Year Ended December 31, 2021

	2021	2020
Revenue		
Transfers from Government	22,000	27,843
User Charges	81,748	79,866
Other revenue from own sources:		
Interest Earnings	18	269
Transfer from Operating Reserve	5,914	-
Other Revenue	436	1,934
Total Revenue	\$ 110,115	109,913
Expenses		
General Government Services	4,698	4,603
Contract for Services	21,445	16,637
CRD Labour and Operating costs	50,009	31,874
Debt Servicing Costs	-	3,961
Other Expenses	16,962	14,235
Total Expenses	\$ 93,115	71,310
Net revenue (expenses)	17,000	38,604
Transfers to own funds:		
Capital Reserve Fund	15,000	15,000
Operating Reserve Fund	2,000	23,604
Annual surplus/(deficit)	-	-
Accumulated surplus/(deficit), beginning of year	-	-
Accumulated surplus/(deficit), end of year	\$ -	-

CAPITAL REGIONAL DISTRICT

SURFSIDE WATER

Statement of Reserve Balances (Unaudited)

For the Year Ended December 31, 2021

	Capital Reserve	
	2021	2020
Beginning Balance	49,087	35,820
Transfer from Operating Budget	15,000	15,000
Transfers from Completed Capital Projects	273	458
Transfer to Capital Projects	-	(3,000)
Interest Income	857	809
Ending Balance	65,217	49,087

	Operating Reserve	
	2021	2020
Beginning Balance	27,842	4,188
Transfer from Operating Budget	2,000	23,604
Transfer to Operating Budget	(5,914)	-
Interest Income	445	50
Ending Balance	24,374	27,842