

# **OBWB Water Management Program Review 2022**

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## 2 LIST OF SUPPORTING DOCUMENTS

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- OBWB Governance Manual – 2022 Update showing recommended changes
- Okanagan Basin Water Board Strategic Plan 2020-2024 can be accessed here: <https://www.obwb.ca/board-of-directors/governance/>
- A complete database of all completed Water Conservation and Quality Improvement Grant funded projects since 2006 can be accessed here: [https://www.obwb.ca/wcqi\\_project/](https://www.obwb.ca/wcqi_project/)

### 3 MESSAGE FROM THE EXECUTIVE DIRECTOR

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The OBWB was founded as a way for local communities to work together to protect Okanagan water. It provides an Okanagan advantage compared to all other regions in B.C., and is unique in Canada as a local government watershed agency. The Water Management Program is the OBWB’s mechanism to do these activities. In the past four years, we have created partnerships for flood plain mapping and re-establishing the Okanagan’s stream flow monitoring network, public outreach to prevent invasive mussels and promote water conservation, and for critical water science studies to begin to review Okanagan Lake level management.

The Water Management Program (WMP) is everything that the OBWB does, beyond milfoil control and sewerage facilities grants, and it is the reason the OBWB was founded. Through the Water Management Program, the OBWB helps local governments prepare for impacts on water from population growth, development, and extreme weather like drought and floods. Given the diversity of water interests in the valley and increasing financial constraints, the Water Management Program spurs progress by providing a mechanism for communities to work together and avoid duplicating efforts.

Through the WMP, Okanagan communities have also been able to coordinate their responses to issues controlled at the provincial and federal levels. We have spoken with one voice which has led to senior government action to protect Okanagan waters against the threat of invasive mussels, to provide increased funding for healthy watersheds, and to make improvements to regulations which affect our way of life. This program works within the OBWB’s mandate to achieve its objectives; leverage funding, institutional resources and the great store of local expertise in the valley to provide significant economies of scale.

Collaboration and coordination enabled by the WMP have allowed us to be stronger and more resilient together – through any winds of change.

A handwritten signature in black ink that reads "Anna L. Warwick Sears". The signature is written in a cursive, flowing style.

Anna Warwick Sears, Executive Director

## 4 PURPOSE AND SCOPE OF THE REVIEW

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The purpose of the Water Management Program is to bring together the water interests of local communities in the valley, moving from strategy to action. The scope of the program is set by the board of directors and by local needs, within our budget and capacity, and acts on the mandate of our governing legislation. We are supported in this work by the Okanagan Water Stewardship Council and community partners, working with committed staff and expert volunteers who believe in our mission.

Every public body must work as efficiently as possible. To stay healthy and responsive as an organization, we want to build on what works, and learn from what does not. We have a commitment to transparency and continuous improvement.

Here, we share the achievements of the program since it began in 2006.

This review has been organized into the following sections:

- Introduction: mandate, vision, and goals;
- Operational and financial structure;
- Core components:
  - Okanagan Water Stewardship Council;
  - Water Science and Policy Projects;
  - Water Conservation and Quality Improvement Grant Program; and
  - Communications and Outreach Program;
- Looking forward: Ongoing and Future projects.

## 5 INTRODUCTION TO THE WATER MANAGEMENT PROGRAM

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### OBWB Vision

*The vision of the OBWB is for the valley to have clean and healthy water in perpetuity, meeting the needs of natural ecosystems, residents, and agriculture.*

### Water Management Mandate

The Water Management Program acts on the mandate given to the OBWB in its founding legislation.<sup>1</sup> In essence, the mandate describes the work of organizing and receiving proposals on water management, defining water problems and priorities, and highlighting responsibilities and required actions. The board is also asked to communicate and coordinate between levels of government, to present solutions, and to participate financial in surveys, investigations or projects. It also mandates the establishment of the Water Stewardship Council. See page 1 of this review, above, or page 2 of the 2022 OBWB Governance Manual update for more detail.

## 6 WATER MANAGEMENT PROGRAM FINANCES

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The OBWB publishes an annual report with audited financial statements, outlining income and expenses across all programs. The annual report meets the requirements of the Local Government Act and Community Charter. OBWB's annual reports are presented at our Annual Public Meeting, and distributed to all Okanagan local governments, published on our website, and posted on the B.C. Public Accounts Archive.

### 6.1 OVERVIEW: INTER-REGIONAL ACTIONS AND ECONOMIES OF SCALE

The program is structured to support Okanagan water sustainability and bring added value to local communities. Economies of scale are created by pooling funds, sharing resources, and leveraging dollars from outside the valley. Rather than each jurisdiction hiring staff or contractors to manage water science projects, grants and planning initiatives, the OBWB can centralize activities. The program creates capacity for inter-regional projects:

- that are difficult for individual local governments to lead;
- that are outside any individual local government's mandate; and
- where a basin-wide approach greatly increases efficiency.

Having a stable source of local funding for water projects has allowed the OBWB to match contributions and be a landing pad for funding from senior government. The OBWB has flexibility as a grantor and as a funding partner, and can take on multi-year projects. The OBWB also assists local communities to secure external funding from private and corporate foundations, and government agencies.

Water infrastructure, water monitoring and management costs are expected to rise in the years ahead. This is because of the increased frequency of extreme weather events, increases in population that require more services and are vulnerable to weather extremes, and because of inflation and aging

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<sup>1</sup> See OBWB Supplementary Letters Patent in the OBWB Governance Manual

infrastructure. This makes the OBWB’s cost savings, external funding and platform for collaboration more important than ever.

## 6.2 BASE FUNDING

The OBWB is funded through property taxes on land within the Okanagan watershed. Every taxpayer contributes at the same rate, and funds are directed to projects with distinct basin-wide benefits. The monies flow through the regional districts allowing OBWB to function as a fully-integrated, valley-wide entity.

The Water Management Program agreement allows OBWB to assess up to \$0.02 (2 cents) per \$1,000 assessment for program costs. This caps the growth of the program, and the actual annual cost is based on budget requirements. Our current requisition is \$0.018 per \$1,000 assessed value.

## 6.3 LEVERAGED FUNDING

The OBWB was designed to pool funds for inter-regional projects and bring external funds to the Okanagan. Since it was established in 2006, the Water Management Program has brought in more than \$9.15 million in external grants for Okanagan water projects.

Fiscal Year End	Water Management Grants to OBWB
2007	\$350,000
2008	\$445,637
2009	\$184,500
2010	\$821,018
2011	\$675,354
2012	\$276,199
2013	\$355,448
2014	\$165,530
2015	\$268,976
2016	\$244,464
2017	\$267,772
2018	\$509,255
2019	\$2,068,075
2020	\$1,254,950
2021	\$265,608
2022	\$1,000,000
<b>Total</b>	<b>\$9,152,786</b>

Over the life of the program, external grants have increased the Water Management Program budget between **11%** and **173%**, at an average of **44%** per year.

**Direct grants to OBWB don’t tell the whole story.** The OBWB’s past two Strategic Plans set goals to increase resources and external funding for all our partner communities, as well as the OBWB. We accomplish this in a variety of ways:

- **Accessing Year-end Funding:** Senior government agencies occasionally have end-of-year funding available that must be spent in a short time. Because of the OBWB's flexible structure and broad network, we can seize opportunities as they arise. For example, in 2021 we were able to direct an extra \$50,000 from the Healthy Watersheds Initiative to one of our grantees undertaking a wetlands restoration project in Penticton.
- **Support and Matching Funds for Local Grant Applications:** Our overall goal is to bring water funding to the valley, whether or not the OBWB is the recipient. OBWB staff assist local governments, non-profits, university researchers and others with grant applications, letters of support, and by providing matching funds. For example, in 2021, the OBWB supported the Okanagan Nation Alliance (ONA) in their application to the Real Estate Foundation of B.C., seeking \$25,000 to develop a *Syilx* water curriculum. The OBWB provided matching funds, and contributed to the successful application. In 2014, RDOS was able to leverage the OBWB's Make Water Work program to secure a \$90,000 grant from RBC, at no additional cost to communities.

In the past four years alone, the OBWB has written letters of support for grant applications by RDOS, RDCO, RDNO, the District of Peachland, the City of Kelowna, the ONA, the City of Vernon, UBC Okanagan, the District of Summerland, Penticton Indian Band, and the District of Lake Country, among others.

- **Water Funder Outreach:** The OBWB is part of Environmental Funders Canada, and helped found the B.C. Water Funders Group – where public and private funding agencies share information and improve water granting to B.C. communities and non-profits. The OBWB raises awareness of Okanagan water issues and water projects among funders working at the provincial and national level.
- **Funding Advocacy to Senior Governments:** The OBWB has been a vocal advocate for increased funding to prevent the spread of invasive mussels into B.C. Working with other regions and groups, we have raised the profile of the issue, which has led directly to increased budgets for monitoring and inspection stations. For example, in 2018, direct advocacy by the OBWB led to a \$500,000 grant from Ottawa for B.C. researchers and outreach groups seeking to prevent invasive mussels.
- **In-kind Contributions:** Industry contributions of \$566,415 to the Don't Move a Mussel campaign accounted for 57% of the total media budget between 2014 and 2021. Industry contributions to the Make Water Work campaign of \$621,737 accounted for 56% of the total budget from 2012 through 2021. The in-kind contribution of Okanagan Water Stewardship Council members' volunteer hours for technical expertise between 2006-2021 was more than \$1,024,000, for more than 13,900 volunteer hours.

## 6.4 UBC-O RESEARCH PARTNERSHIPS

The UBC – Okanagan Campus is a great asset to our community. The growing community of world-class faculty and the diverse student body are using the Okanagan as a laboratory for community-based research. The OBWB is a close partner with the university. In 2010, at the request of the



Okanagan regional districts, we helped establish the BC Regional Innovation Chair in Water Resources and Ecosystem Management, and have participated in several water research advisory committees.

We have also worked directly with university researchers on a variety of projects, ranging from studies of Kelowna aquifers to endocrine disrupters, to source protection for small water systems, to wetland inventories. The university has significant capacity, and faculty can oversee graduate student projects at a fraction of what it would cost to hire a consultant. Many times, the OBWB will assist researchers simply by being a community partner, providing in-kind participation and letters of support. In a reciprocal way, we draw on faculty for expert advice for our water science initiatives.

## 6.5 PROJECTIONS FOR FUTURE FUND LEVERAGING

We anticipate continued strong support for Okanagan water projects and programs from senior governments and private foundations. We have excellent partnerships, and the OBWB can act as a local funding partner and project coordinator with a variety of agencies and organizations. Our ability to carry-over funds from one fiscal year to the next and to provide financial administration for multi-agency partnerships contributes to the OBWB's success in gaining outside funding. Two other essential factors for receiving large external grants are:

- *Staff capacity to participate as full partners.*
- *Local base-funding to leverage grants.*

## 7 OKANAGAN WATER STEWARDSHIP COUNCIL

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The OBWB is required by our Supplementary Letters Patent to have an external advisory committee. Originally this was called the Liaison Committee, that was renamed the Okanagan Water Stewardship Council (OWSC) in 2006. The OWSC advises the OBWB's board of directors, and the Council Chair is a member of the board.

The role of the council is to capitalize on local expertise, supporting communication and conflict resolution among Okanagan water stakeholders. Council meetings are a venue to explore water problems and solutions, increase understanding, discuss government-to-government relationships, opportunities for collaboration, and identify barriers to multi-level water management challenges.

### 7.1 RECENT ACHIEVEMENTS

Some recent achievements of the council are highlighted here:

- Between 2006 and April 2022, council members donated more than 13,900 volunteer hours of technical expertise, with an estimated value of more than \$1,024,000;
- Council committees regularly assist the OBWB with letters to senior governments on technical water issues. In recent years these have included:
  - Osoyoos Aquifer Water Quality Objectives
  - Emergency Program Act Modernization
  - B.C. Climate Adaptation Strategy
  - Groundwater Licensing
  - Proposed Canada Water Agency

- Source Protection Policy
- Reviewing and Recommendations for Updating the Okanagan Lake Regulation System
- The OWSC consulted with Okanagan community members on strategic Okanagan water issues including:
  - Strategic flood, fire and drought management
  - Invasive mussel prevention strategies & advocacy
  - Agriculture water
  - Environmental Flow Needs
  - Reservoir storage, management, and safety
  - Okanagan Wetland Strategy
  - Okanagan bio-solids
  - Natural resource mapping and data
  - Source Protection Toolkit development

## 7.2 SUMMARY

Much of the OBWB's success in the past 16 years would not have been possible without the contributions of the council, given the importance of collaboration and conflict resolution for water.

Water stewardship is a balancing act among diverse, often competing interests, and the council provides a way for stakeholders to share perspectives and resolve conflicts. It builds bridges and partnerships that might not happen otherwise. Council members volunteer their time for the monthly meetings, technical committees, and projects. The council is widely respected locally, provincially and nationally. In 2013, The Okanagan Water Stewardship Council won a prestigious national award from the Council of the Federation.

The Council makes recommendations to the OBWB's board of directors, and the OBWB works with council members and their organizations to find ways to have the greatest positive impact from their recommendations. Finding solutions to complex Okanagan water problems requires a diverse community of committed parties – with a common goal of protecting water, our most precious resource. The OWSC continues to support learning and community building under a common vision of swimmable, fishable, and drinkable Okanagan water.

## 8 WATER SCIENCE AND POLICY

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In the past several years, we have seen intense droughts, wildfires, and record flooding followed by record dry spells. It is important to build systems to monitor changes in the climate and hydrology of the valley, and any patterns in water quality changes.

### 8.1 SIGNIFICANT HIGHLIGHTED ACHIEVEMENTS

- Okanagan Lake Regulation System Plan of Study to update Okanagan Lake level management (2021)
- Establishment of a new Hydrometric Monitoring service (2021), to rebuild the stream flow monitoring capacity of the Okanagan, in partnership with the Okanagan Nation Alliance,

Environment and Climate Change Canada, the B.C. River Forecast Centre, and local communities;

- Collaborative floodplain mapping for the Okanagan mainstem lake shores (2020) – delineating the flood zones that are at risk of catastrophic flooding, in partnership with Okanagan regional districts, Emergency Management B.C., and the Okanagan Nation Alliance;
- Collaborative LiDAR and aerial imagery acquisition for valley-wide floodplain mapping (2018), in partnership with GeoBC, Emergency Management BC, Okanagan local governments and First Nations governments;
- Collaborative topobathymetric LiDAR and aerial imagery acquisition for seven mainstem lakes (2021) for enhanced wind and wave modelling during flood conditions.
- Development of Environmental Flow Needs assessments for Okanagan streams (2018), in partnership with the Okanagan Nation Alliance and the Province of B.C.;
- Okanagan Water Supply and Demand Project (2010) – A four-year, multi-agency effort to assess water quantity in the Okanagan, and how it may change with climate change. The most comprehensive look at Okanagan water supply since the 1974 Okanagan Basin Study;
- Okanagan Sustainable Water Strategy Action Plan 1.0 (2008) and 2.0 (2019) – a strategic look at the Okanagan’s water challenges and the best actions for change, developed by the Okanagan Water Stewardship Council;
- Groundwater studies on the Kelowna aquifer, including groundwater/surface water interactions along Mission Creek, and 3-D mapping of subsurface aquifer layers (2019);
- Coordination of local government drought planning, so that they are consistent among communities and integrate with provincial drought response plans (2021);
- Development of drought triggers for water suppliers that draw on the mainstem lakes, based on the risk of drought return periods, to incorporate into drought plans (2021);
- Development of an Okanagan hydrometric (stream flow) database and interface using the Aquarius software system, complementary to the Water Survey of Canada system (2021).
- Coordination of many partners on Okanagan Wetlands Strategy, increasing the level of external grant funding and leading to an increase in on-the-ground restoration projects (2021);
- Development of an online hub for local government planning and policy guides on CivicInfo BC (2018);

## 8.2 SUMMARY

The OBWB’s approach is to work steadily on problems that have the greatest impact on water quality and supply over the long term. Essentially, we are working to improve water management during a time of rapid climate, population, and social change. We make progress through persistence and continuity.

Climate science shows that there will be more water shortages and more flood events in coming years, but many local communities lack up-to-date drought or flood plans. B.C.’s Water Sustainability Act also presents many challenges moving forward – as local governments and the public adapt to new regulations. Communities will have to be increasingly self-reliant, and clearly communicate their needs to senior governments. The OBWB can help local communities to share resources, and to magnify the voices of individual jurisdictions.

Every piece of data has a cost. If it's not collected together, organized, used and reused, we waste a valuable information resource. Without good data, we can't learn from the past or do proper risk assessments for the future. We provide ongoing access to data, and add new data as it comes available. We also bridge the data collection of local utilities and governments, so that the whole of the data collection is greater than the sum of its parts.

## 9 WATER CONSERVATION AND QUALITY IMPROVEMENT GRANTS

The Water Conservation and Quality Improvement (WCQI) grant program provides funds to local governments, Indigenous communities and organizations, irrigation districts, and non-profit organizations for projects that conserve and protect water, based on the recognition that we are all part of "One Valley, One Water." Networks of collaboration and communication are built through the program as grantees work together to develop and share best management practices. Since its inception in 2006, each year the program has been oversubscribed and competitive.

### 9.1 ACHIEVEMENTS AND PROGRAM IMPROVEMENTS

- Since 2006, the OBWB has distributed \$5,471,258 to 315 projects.
- With external funding and in-kind support since 2006, more than \$37,534,500 (total budgets of all projects) has been spent on water conservation and quality improvement projects in the Okanagan.
- Since 2014, the program has integrated annual themes to prioritize and give bonus points to proposals which meet the annual theme objectives.
- The granting process has been significantly streamlined, following the best practices learned through our membership with Environment Funders Canada and the BC Water Funders Collaborative.
- An updated database with all the successful projects is available on the OBWB website.

### 9.2 SUMMARY

The WCQI grants program has led to significant improvements in water conservation and water quality protection, and has leveraged substantial external grant funds from senior government or agencies such as the Real Estate Foundation of B.C. It has also increased collaboration and communication between participating communities and organizations. This collaboration leads to greater efficiency and reduced costs.

The program strives for continual improvement and support for our grantees. The application and reporting process has been significantly streamlined since 2018, and the competitive criteria have been simplified to put the focus on projects that show the greatest direct benefit to Okanagan water. Although the program is consistently over-subscribed, since 2006, more than 99% of WCQI-funded projects have been successful in achieving their stated objectives. By increasing the profile of Okanagan water projects among other funders, we have also made it easier for local organizations to expand their other sources of funding.

## 10 COMMUNICATIONS AND OUTREACH PROGRAM

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Communication and Outreach is one of the main components of the Water Management Program, and is integral support for the rest of the program, as well as the work of the OBWB in general.

Effective communication between the OBWB and local government, First Nations, senior levels of government, water researchers and local residents is essential to create an understanding of Okanagan water issues, and to develop and act on solutions to protect it.

### 10.1 ACHIEVEMENT HIGHLIGHTS

- More than 2,500 news stories about the OBWB were generated between June 2006, and March 31, 2022, reaching people throughout the Okanagan, and also sometimes provincially and nationally. The number of stories has increased from an average of 25 per year in 2006-2008, to 242 per year in 2018-2021;
- Monthly reports on activities at board meetings now reach over 270 people, as well as being available online;
- OBWB's public outreach and education program, Okanagan WaterWise, has a website that is regularly updated, and is active on social media where audiences have been growing with over 2,000 Twitter followers, 2,800 Facebook followers, and 953 Instagram followers. The OBWB is also on LinkedIn where it has 346 followers;
- The "[Don't Move a Mussel](#)" campaign, aimed at preventing the spread of invasive zebra and quagga mussels into the Okanagan, continues to grow every year, with valley-wide government, media and business partnerships, and materials being shared as far away as Manitoba;
- The valley-wide "[Make Water Work](#)" campaign was piloted in 2011 and has continued to attract new water utility and business partners to promote residential outdoor water conservation;
- Since tracking started in 2009, OBWB staff have delivered over 400 presentations to public forums, conferences, and workshops.
- As of March 2022, we have over 4,000 subscribers on the Okanagan WaterWise YouTube channel, and 903,719 views of our content;
- The award-winning River Film documentary (October 2017) was produced, in partnership with the International Joint Commission and the Washington Department of Ecology, to educate the public about water management in the Okanagan/Okanogan watershed. In 2018, several public screenings were held and copies were distributed to public and post-secondary libraries, museums, and public school libraries throughout the valley. The film is also posted on our YouTube channel;
- The OBWB-OkWaterWise has created a number of locally-relevant water-related education materials, including the 2021 release of "Our Relationship with Water in the Okanagan," a series of three guides developed with educators and Syilx Knowledge Keepers around the valley. These have been distributed to schools throughout the Okanagan and are available on the OkWaterWise website for free download.

### 10.2 SUMMARY

The OBWB has become the go-to communications hub for those looking for information on Okanagan water. This includes government officials, residents, researchers, media, and water stakeholders. In response, the OBWB has developed many tools and strategies to reach specific audiences, improve understanding of water issues in the region and encourage collaboration. As our communication program has expanded, there has been increasing interest among the public and media about water

issues. Staff are continually working to reach audiences, using websites and social media, giving presentations, and working with media.

The Make Water Work campaign, a valley-wide residential outdoor water conservation effort based on behaviour change social marketing practices, has drawn the attention of B.C. communities which have adopted similar strategies to promote water conservation. It was also used as a case study on Canadian water conservation campaigns by the University of Waterloo. The Don't Move a Mussel campaign is unique in B.C. and has led to wide awareness about the emerging issue of invasive mussels. It also involves direct outreach to elected officials, in the federal and provincial ministries with jurisdiction over inspections and monitoring for mussel larvae. The OBWB has an ongoing advocacy campaign for governments to increase funding for inspections, hire more conservation officers, train more mussel-sniffing dogs, and increase the number of decontamination stations. The OBWB has also advocated for tougher screening by CBSA officers along the USA/Canada border. Through the program, the OBWB also supports direct boater outreach efforts by the Okanagan and Similkameen Invasive Species Society (OASISS).

Our communications programs have been especially successful developing partnerships which has helped to broaden our audience and spread our message beyond what we could achieve alone. As word spreads about the range of water issues in the valley, we have had more demand for public outreach, educational materials for schools, and other resources. We also work with local government, media, and industry partners who contribute staff time to steering committees and distribute materials, or make in-kind contributions to spread our messages and engage the public.

## 11 LOOKING FORWARD

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### Making a Difference: Strategies for Okanagan Water Sustainability

The OBWB works from a five-year strategic plan linking broad goals to specific actions – most of these relating directly to the Water Management Program. The board of directors developed the first OBWB Strategic Plan in 2014, and they reviewed and renewed it in 2020. The plan reflects our priorities, and our unique strengths, and the way we carry out our work, and is a framework for future projects, programs, partnerships, and decisions. It creates clarity for our partners, and helps shape our work together. Use this link to access the [OBWB 2020 – 2025 Strategic Plan](#).

Broadly speaking, our strategic plan has goals to increase external funding for water projects in the valley, for increasing public water education and awareness, and to maintain excellent water quality and sufficient supply for all needs. The OBWB also has a goal to advance partnerships with Okanagan Indigenous communities and the Okanagan Nation – both to build on mutual goals, and to advance understanding and reconciliation.

The OBWB's strategic planning processes are supported by the Okanagan Sustainable Water Strategy, published by the Okanagan Water Stewardship Council in 2008 and updated in 2019. The strategy provides 50 specific action items to address water quality, quantity, governance, reconciliation and informed decision-making. Use this link to access the [2019 Sustainable Water Strategy](#).

**Table 14.1. Key Ongoing, Scheduled, and Completed Water Management Program Projects**

<b>Ongoing Projects</b>
Okanagan WaterWise public education program
Make Water Work public education campaign
Don't Move a Mussel public education campaign
Hydrometric (stream flow) monitoring
Groundwater monitoring
Coordinated Flood Risk and Flood Management Planning
New Okanagan hydrology models for major tributaries
Bathymetric LiDAR for Okanagan shoreline
Valley-wide Coordinated Drought Planning
Mainstem Lakes Drought Triggers project
Okanagan Wetlands Strategy implementation
CivicInfo BC database of Climate Adaptation and Water Management Bylaws
Water data hosting, management, and delivery to local governments
B.C. Water Use Reporting Centre
<b>Scheduled or Proposed Future Projects</b>
Okanagan Lake Regulation System Plan of Study to update Okanagan Lake level management
Bathymetric mapping of milfoil beds, fish habitat, and water intakes
Linked hydrologic model for the Okanagan & Similkameen
Integrated hydraulic model for Okanagan mainstem
Improved lake inflow forecasting models and account for uncertainty
Okanagan drought risk analysis
Water Demand Model and Land Use Inventory updates
Governing conditions for modernizing the Okanagan Lake Regulation System
<b>Recently Completed Projects</b>
Mission Creek Groundwater/Surface Water Interaction Study
Updating the Okanagan Sustainable Water Strategy
Environmental Flow Needs for Okanagan Streams
Environmental Flow Needs conference in October 2018
Guide to Constructed Wetlands in the Okanagan
LiDAR acquisition to support floodplain mapping
Floodplain mapping for Okanagan mainstem lakeshores