

## 25 Year Saskatchewan Water Security Plan Report for 2019-20

Action Number	Action Description
1.1a	<p>Promote adoption of best conservation and efficiency practices and technology through education, regulations, water licence conditions and new programming</p> <p>Completion Target Year: Paused</p> <p><b>LEAD AGENCY: Water Security Agency</b></p>
1.1b	<p>Investigate pricing strategies as a means of promoting water conservation</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: It is anticipated that this work may be incorporated into the development of an allocation policy to support new legislation in the future.</p>
1.1c	<p>Work with partners to promote research and development of innovative technology that improves the efficient use of water</p> <p>Completion Target Year: Paused</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: This action has been on pause since Spring 2015.</p>
1.2a	<p>Evaluate existing water supplies and future demands for the next 25 years and beyond to determine the need for new infrastructure across the province</p> <p>Completion Target Year: 2016 and Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: A number of specific projects associated with this action have been completed via the Strategic Integration Unit; however, reassignment of WSA resources has left the action as Dormant/Pending. Therefore, WSA will revisit the purpose and utility of this action as part of a <i>25 Year Water Security Plan</i> renewal.</p>

Action Number	Action Description
1.2b	<p>Investigate alternative measures to increase the delivery of water from Lake Diefenbaker to Buffalo Pound Lake, including evaluation of the feasibility of the Qu'Appelle South Irrigation Project</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed in 2014-15.</p>
1.2c	<p>Examine alternative ways of instituting the concept of "user-pay" with respect to the development of additional provincially owned, multi-purpose water supply infrastructure</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed in 2014-15.</p>
1.3a	<p>Develop a modern system of water allocation, including a new allocation policy and regulations</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Work on allocation policy in support of new legislation could begin in 2020/21 with an affirmative response to the call for legislation.</p>
1.3b	<p>Review existing water rights licences and assess current water use</p> <p>Completion Target Year: 2014 (priority)/2016 (other)</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: All existing Industrial, municipal, and "other" surface water files have been reviewed. A review of irrigation files with the exception of the Southwest region has been completed. A prioritized review of SW irrigation files is ongoing and being carried out in conjunction with a number of programs to divest of provincial and federal irrigation assets, transfer of community pastures, and a review of back flood irrigation projects that may require drainage approvals.</p>
1.3c(a)	<p>By watershed, determine the existing use of water, level of protection of environmental flows, how much water is available for future allocation, and identify areas where water scarcity may be a factor</p> <p>Completion Target Year: 2014 (priority)/2016 (other)</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Water use data is collected and compiled annually with the ability to report use by watershed as well as by sector.</p>

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1.3c(b)	<p>By watershed, determine the use of water, level of protection of environmental flows, how much water is available for future allocation, and identify areas where water scarcity may be a factor</p> <p>Completion Target Year: 2014 (priority)/2016 (other)</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: A number of specific projects associated with this action have been completed via the Strategic Integration Unit; however, reassignment of WSA resources has left the action as Dormant/Pending. Therefore, WSA will revisit the purpose and utility of this action as part of a <i>25 Year Water Security Plan</i> renewal.</p>
1.4a	<p>Work with Canada to continue to assess and seek funding support for further irrigation opportunities</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Ministry of Agriculture</b></p> <p>Update: The Canadian Agricultural Partnership began on April 1, 2018 and provides irrigation programming for new irrigation development and environmental efficiency programs. The program was accessed, and funds were paid out for both the development and environmental efficiency programs. As of March 31, 2020, there has been \$1,189,000 funding paid out resulting in new irrigation development of 2,525 acres. In addition, there has been \$578,000 paid out to 42 applications for adopting improved environmental efficiencies. The total paid out for the irrigation portion of the CAP program to date is \$1,767,000.</p>
1.4b	<p>Develop an irrigation strategy that prioritizes opportunities for infill and new irrigation projects for development and assess the need for irrigation infrastructure rehabilitation</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Ministry of Agriculture</b></p> <p>Update: Completed in 2014. The Ministry of Agriculture hosted an irrigation stakeholder meeting in November 2015 to obtain industry feedback. The Ministry plans to keep the irrigation strategy current through ongoing dialogue with the irrigation industry and incorporating revisions, where possible, while maintaining strategy ownership.</p>
1.4c	<p>Work with Canada to transfer ownership of federal irrigation projects to local patrons</p> <p>Completion Target Year: 2019</p> <p><b>LEAD AGENCY: Ministry of Agriculture</b></p> <p>Update: Discussions with federal-provincial governments on the transfer of the ownership of federal irrigation projects to local patrons continue. The federal government's focus in the last few years has been transitioning dams and water supply works in southwest Saskatchewan to the Water Security Agency. The</p>

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	<p>Ministry of Agriculture has been observing progress and providing information as requested with the consistent message that federal transfer cannot increase provincial liability and that continued irrigation must be sustainable. The federal government has reportedly accepted responsibility for any future decommissioning costs associated with non-sustainable irrigation projects.</p>
1.4d	<p>Develop new criteria for allocation licensing based on best practices and new technologies to sustainably support irrigation</p> <p>Completion Target Year: 2017</p> <p><b>LEAD AGENCY: Ministry of Agriculture</b></p> <p>Update: Completed in 2018. New irrigation water licenses are being issued by Water Security Agency based on actual usage requirements and availability in consultation with the Ministry. Irrigation districts water licenses will be similarly updated by Water Security Agency in the future.</p>
1.5a	<p>Continue work with research partners on climate change impacts to identify possibilities for adaptation</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA continues to work with researchers on gaining greater understanding on the climate conditions affecting water quality and aquatic habitats in the province. In 2018-19, new work started on acquisition of weekly time series water flow information for major streams in southern Saskatchewan including the following rivers: South Sask River, North Sask River, Qu'Appelle River, and Souris River. WSA is also contributing to research and adaptation efforts to prepare and adapt for hydrological drought and flooding through the NRCan Building Regional Adaptation Capacity and Expertise program and floodplain mapping programming, respectively. WSA is also working with researchers to understand the effects climate change may have on water management practices.</p>
1.6a	<p>Develop detailed aquifer maps</p> <p>Completion Target Year: Paused</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Rather than focusing on further refining existing general maps, the Agency is focusing on describing and understanding important individual aquifers, aquifer systems and hydrogeologic areas (i.e., refined mapping, characteristics, flow dynamics, stresses, sustainability, etc.).</p>

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1.6b	<p>Analyze the water supply situation in the major rivers</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: A number of specific projects associated with this action have been completed via the Strategic Integration Unit; however, reassignment of WSA resources has left the action as Dormant/Pending. Therefore, WSA will revisit the purpose and utility of this action as part of a <i>25 Year Water Security Plan</i> renewal.</p>
1.6c	<p>Determine the existing water use by sector and delineated by the major basin</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed in 2013-14.</p>
1.6d	<p>Examine projected water demand by sector within major basins to the year 2060</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed in 2013-14.</p>
1.6e	<p>Identify environmental flows to support the aquatic ecosystem</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. Survey results shared with Southwest region and implications for water management discussed.</p>
1.7a	<p>Determine economic value of water in alternative uses</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. A final report has been received and will be incorporated into the development of an allocation policy.</p>

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1.7b	<p>Assess how the economic value of water could be used in allocation decision making</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. Final report has been received and will be incorporated into the development of allocation policy.</p>
2.1a	<p>Review and update the province's approach to safe drinking water, including consideration of the 2002 Laing Report and the 2002 Safe Drinking Water Strategy</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA met with Saskatchewan Health in early 2020 to discuss the safe drinking water strategy. At that time, the decision was made to maintain the current approach of managing safe drinking water from source to tap, with minor modifications to <i>The Waterworks and Sewage Works Regulations</i> required. One modification has been made (in early 2020) regarding the requirement for water system assessments every five years. The requirement for the assessment has been moved to another legal instrument (the Operating Permit for each waterworks). This allows for more consideration of site-specific conditions and more appropriate frequency of the assessment needed to be done. In some cases, it may be less than five years, or it could be longer than five years. Furthermore, the number of assessments required in the province in any given year will be evenly spread out. Unlike the past, where most of the assessments were done at the end of the five-year period, which has caused a temporary high demand on resources within WSA, municipalities and the engineering firms. The recent amendment to <i>The Waterworks and Sewage Works Regulations</i> should help all parties involved in the assessment to better manage and plan their resources required to conduct and review the waterworks system assessments on an annual basis. It is also anticipated that on average, many municipalities, especially the medium to smaller communities, will see some savings (about 30 per cent on average). WSA continues to make improvements to protocols and guidelines such as inspection, permit, audit protocols, and drinking water monitoring standards. In 2019, the Water Security Agency, Saskatchewan Health, and the Health Authority collaborated and modernized the Bacteriological Follow-up Protocol.</p>
2.1b	<p>Investigate and encourage opportunities for regional water treatment plants and distribution pipelines to increase access to, and protection of, high quality drinking water</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: The Agency is working with SaskWater, Government Relations, SaskBuilds and Economy to develop background information on economic feasibility of regional drinking and wastewater systems based on a Strategic Utility Pilot completed with Government partners via a contract with McNair Business Consulting. WSA has provided water quality information to SaskWater to aid in evaluating the feasibility of</p>

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	<p>a regional water system in SE Saskatchewan and promotes regional water systems where practical.</p>
2.1c	<p>Evaluate the financial needs of communities for operation, maintenance and renewal of water infrastructure</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. During 2015, Water Security Agency required 188 municipalities to do assessments of their waterworks. The assessment included examination of the financial viability of drinking water systems including: annual operation and maintenance costs of the municipal waterworks, an estimate of the capital replacement costs of any major system components that are expected to require replacement within the next 10 years, approximate cost estimates for anticipated non-routine maintenance, upgrades or expansions, and recommendations of appropriate water rates to meet future costs. Waterworks system assessment on smaller systems were completed in previous years. A Strategic Utility Pilot was also completed with Government partners via a contract with McNair Business Consulting to develop a strategic approach to regional utility development and evaluate the feasibility and financial factors influencing the development of regional systems.</p>
2.1d	<p>Develop a strategy to encourage communities to renew drinking water infrastructure</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Ministry of Government Relations</b></p> <p>Update: The province has committed to be a funding partner under the federal New Building Canada Fund and Clean Water and Wastewater Fund. In 2018-19 Saskatchewan announced federal and provincial funding for 103 projects that have a municipal drinking water component with total project costs of \$372.4 million. Both programs are fully allocated. Drinking water infrastructure renewal will also be supported through the federal Gas Tax Fund. Municipalities are also able to utilize unconditional Municipal Revenue Sharing funds for infrastructure projects, at their discretion. Priority northern municipal water projects continue to be addressed with project management support from SaskWater. The Northern Water and Sewer Program provided funding to upgrade water and sewer systems in northern communities. Northern water and wastewater projects are also receiving funding under the New Building Canada Fund and Clean Water and Wastewater Fund. In October 2018, the province committed to be a funding partner under the federal Investing in Canada Infrastructure program. As of March 31, 2020, seven municipal drinking water projects with total project costs of \$51.25M have been approved. Additional intakes for drinking water</p>

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	<p>projects are being implemented/planned.</p>
2.1e	<p>Assess, with federal and First Nations governments, opportunities for the province to provide infrastructure, including connections to regional water systems, and technical and inspection services on reserves on a cost-recovery basis</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Information and assessment of the option for provision of drinking water via regional infrastructure is performed during meetings, public events and interaction with First Nations as well as during general educational efforts on safe drinking water. WSA will be evaluating the provision of inspection services as regulations are developed pursuant to <i>The Safe Drinking Water for First Nations Act</i>.</p>
2.2a	<p>Review and rationalize the regulatory regime applying to semi-public systems</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Some consideration of this is being incorporated into the review for item 2.1. Limited progress over 2019-20 fiscal year. Also awaiting related meeting and feedback from Saskatchewan Health.</p>
2.2b	<p>Support research on water treatment technologies for point of use/point of entry (POE) water systems</p> <p>Completion Target Year: Ongoing</p> <p>LEAD AGENCY: Water Security Agency</p> <p>Update: During the 2019-20 fiscal year, WSA approached Saskatchewan Association of Rural Municipalities (SARM) on the issue of POE/POU water treatment systems for rural water pipelines and gained some understanding from SARM as to the risk this approach presents. WSA will continue to look at options for regional systems with other provincial ministries, agencies, and crown corporations in 2020-21.</p>
2.3a	<p>Implement an effective education and information strategy to raise awareness of drinking water safety issues, including information on proper well management, system operation and maintenance, water quality testing, and identification of and solutions for groundwater quality problems</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: During 2019-20, 18 fact sheets and 24 publications related to drinking and wastewater management were updated in 2019-20. Guidance documents for use by WSA staff were also developed.</p>

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	<p>Two training workshops for water and wastewater operators were presented by WSA staff in conjunction with the Saskatchewan Water and Wastewater Operator's Association.</p> <p>Also, the landowners' guide update to private groundwater systems is nearing completion, while the program review of the proposed expanded groundwater private system extension program is ongoing.</p>
2.3b	<p>Encourage testing of private water supplies, including testing for heavy metals</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. WSA's rural water quality program has essentially ended; this was the primary avenue by which this initiative was delivered. However, through the SaskH2O website, information of water quality and testing for private wells is provided in an ongoing manner.</p>
2.3c	<p>Provide water testing and treatment advice in at risk locations during emergency events such as flooding that pose a high risk of drinking water contamination</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Generally when emergency conditions exist (e.g. flooding, spills) that threaten water supplies, WSA fulfills this ongoing role; although there were no significant events in 2019-20.</p>
3.1a	<p>Evaluate the status of existing municipal wastewater facilities to determine needs for upgrades</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. WSA completed a technical assessment of the status and capacity of all regulated wastewater systems in Saskatchewan in 2015-16. Also completed evaluation of risk assessments for wastewater systems subject to the Wastewater System Effluent Regulations and the Canadian Council of Ministers of the Environment Canada-Wide Strategy for Municipal Wastewater Effluents. Tracked the status of municipal wastewater facility for compliance with standards as a means to direct needed upgrading priorities. Work intended by the 25 Year Plan is complete, however WSA is tracking progress on upgrades to wastewater treatment systems given the WSER, MWWWE and regulatory implications/requirements. Work to implement wastewater systems subject to provincial requirements and the federal Wastewater System Effluent Regulations was undertaken in 2019-20 and will continue in future years.</p>
3.1b	<p>Develop an agreement with Environment Canada (now ECCC) for coordinated implementation of the Canadian Council of Ministers of the Environment Municipal Waste Water Effluent Canada-Wide Strategy and the federal Wastewater System Effluent Regulations</p> <p>Completion Target Year: 2013</p>

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	<p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. As of July 2015, an agreement was in place with Environment Canada for WSA to deliver the Wastewater System Effluent Regulations in Saskatchewan. Coordination committee meetings were held with Environment Canada and implementation under the agreement will continue. WSA initiated discussion of renewal of the administration agreement with Environment and Climate Change Canada in late 2018-19. As of March 31, 2020, a draft admin renewal agreement had been approved by both responsible provincial and federal ministers. Final gazetting and endorsement scheduled for early summer 2020.</p>
3.1c	<p>Develop a strategy to encourage the renewal of municipal wastewater treatment infrastructure to ensure protection of water quality in receiving water bodies</p> <p>Competition Target Year: Ongoing</p> <p><b>LEAD AGENCY: Ministry of Government Relations</b></p> <p>Update: The province has committed to being a funding partner under the federal New Building Canada Fund and Clean Water and Wastewater Fund. Both programs are fully allocated. In 2018-19, Saskatchewan announced federal and provincial funding for 115 projects that have a municipal wastewater component with total project costs of \$422.83 million. Wastewater infrastructure renewal will also be supported through the federal Gas Tax Fund. Municipalities are also able to utilize unconditional Municipal Revenue Sharing funds for infrastructure projects, at their discretion. Priority northern municipal water projects continue to be addressed with project management support from SaskWater. The Northern Water and Sewer Program provided funding to upgrade water and sewer systems in northern communities. Northern water and wastewater projects are also receiving funding under the New Building Canada Fund and Clean Water and Wastewater Fund. In October 2018, the province committed to be a funding partner under the federal Investing in Canada Infrastructure program. As of March 31, 2020, two municipal waste water projects with total project costs of \$23.4M have been approved. Additional intakes for waste water projects are being implemented/planned.</p>
3.1d	<p>Develop coordinated policies to reduce risk of water contamination that may result from residential wastewater management in high density rural developments and cottage subdivisions</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. Progress has been made in policy discussions with Government Relations with regard to application of needs for proper communal wastewater treatment systems in communal settings. Requirements for engineered communal sewage works are now being included through subdivision-based developments.</p>

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3.1e	<p>Define water quality objectives, including nutrient-related objectives, for surface water bodies and watercourses in the province, beginning with the highest priority systems and including work on key transboundary sites</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Water Quality Objectives developed and implemented for Prairie Provinces Water Board (PPWB) interprovincial sites at six locations on the AB/SK border and six locations on the MB/SK border. Work is ongoing through the Qu'Appelle Basin nutrient loading study and additional post study monitoring to better understand the impact of the Regina wastewater treatment upgrade on the levels of nutrients entering that priority watercourse. This work will contribute to the development of surface water quality nutrient objectives. WSA has implemented more stringent effluent nutrient quality criteria for upgraded sewage works. Further review of PPWB objectives for certain parameters, as well as excursion reporting, will get underway in 2020-21.</p>
3.1f	<p>Implement a recreational lake water quality monitoring program for swimming areas at lakes across the province</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Ministry of Health</b></p> <p>Update: Completed. Base program is now considered to be implemented and will be delivered annually.</p>
3.1g	<p>Provide information and encourage the implementation of beneficial land and water management practices to reduce non-point sources of nutrients and other contaminants to surface and groundwater</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA is supporting MoA assessment of efficacy of BMP implementation to improve water quality by leading water quality monitoring for the Proactive Stewardship Pilot project near McCord, SK.</p> <p>Provided coordination of WSA support to field delivery of MOA-led Canadian Agricultural Partnership (CAP), water-related programming through WSA technologists for the second year of the program.</p> <p>Coordinated WSA policy &amp; technical input into MOA-led development of the balance of the 5-year program. Provided grant administration, technical advice, training, performance monitoring and reporting services to 11 Watershed Stewardship Groups as primary delivery model for CAP.</p>

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3.1h	<p>Complete the Boreal Watershed Initiative</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Ministry of Environment</b></p> <p>Update: Complete. In 2015-16, the Ministry of Environment concluded the five-year study assessing the health of watersheds in northern Saskatchewan. The Ministry of Environment finalized a comprehensive report in 2016-17 summarizing the findings with some 45 technical reports and associated geospatial databases. All technical reports and databases are available at the attached link below or on digital media upon request. A few manuscripts from this report are still pending publication within the peer-reviewed literature.</p> <p><a href="https://publications.saskatchewan.ca/#/products/86547">https://publications.saskatchewan.ca/#/products/86547</a></p> <p>Launched in 2011, the ministry's Boreal Watershed Initiative provides a baseline assessment on the health of Saskatchewan's northern watersheds. Saskatchewan's Boreal region contains some of the largest and highest quality freshwater resources on Earth. The quality and availability of this natural freshwater reservoir is dependent upon the integrity of these watersheds.</p> <p>This study provides an understanding of the state of the environment and potential changes we may be seeing on the landscape. Researchers and consultants can use these results to identify regional environmental responses to multiple land uses by industry and others.</p>
3.1i	<p>Define a strategy to reduce the contamination risk posed to groundwater sources by abandoned water wells</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed in 2013-14. Through the five-year Canadian Agricultural Partnership (CAP), funding by federal and provincial governments is available to support water development and environmental programming. This includes the Farm and Ranch Water Infrastructure Program (FRWIP) which supports improved public safety and the reduction of potential groundwater contamination through rural well decommissioning. Through FRWIP, well decommissioning projects are eligible for a rebate of 90 per cent of eligible costs to a maximum payment of \$150,000 per project.</p>
3.1j	<p>Negotiate with Canada a new commitment to continue the Environmental Farm Plan Program, with a focus on nutrient management and protection of water supplies</p> <p>Completion Target Year: 2013</p> <p><b>LEAD AGENCY: Ministry of Agriculture</b></p> <p>Update: Completed in 2013-14.</p>

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3.2a	<p>Prepare a new provincial wetland policy that includes an assessment of the status of wetlands in the province and identification of conservation priorities, including a strategy to retain and restore wetlands</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Work on this file has been delayed until the Wetland Loss Mitigation Policy is developed with the Agricultural Water Management Strategy. The Wetland Loss Mitigation Policy is one part of the overall provincial wetland policy.</p>
3.3a	<p>Establish site-specific objectives for environmental flows in priority surface water systems</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Complete. Qu'Appelle discussions complete. Cypress Hills/Mountain Sucker discussions complete.</p>
3.3b	<p>Prepare an aquatic alien species strategy to identify and address significant threats to biodiversity and ecosystem health</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Ministry of Environment</b></p> <p>Update: Complete. The Ministry of Environment developed a draft Aquatic Invasive Species (AIS) Strategy in consultation with other government agencies and NGOs in early 2017, and updated it in February 2020. The Government of Saskatchewan has implemented several actions to prevent aquatic invasive species from entering our province and doing harm to waters they invade.</p> <p>Prevention is of the utmost importance. The government has focused on public awareness through education and targeted signage about the Clean, Drain, Dry program, roadside boat inspections, decontaminations, and regular monitoring of Saskatchewan's busy waterbodies.</p> <p>Saskatchewan also partners with provincial organizations, Canada Border Services Agency, and provincial governments in British Columbia, Alberta, Manitoba, and the Yukon to coordinate prevention on a regional basis.</p> <p>To date, no invasive mussels have been found within Saskatchewan.</p>

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3.3c	<p>Develop protocols with the Department of Fisheries and Oceans to ensure the ongoing protection of fish habitat under the new federal Fisheries Act.</p> <p>Completion Target Year: 2013</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. Coordination of Aquatic Habitat Protection Permitting process with Fisheries and Oceans Canada's (DFO) new approach has been achieved. Provincial-federal issues are dealt with through the Saskatchewan Fisheries Advisory Committee.</p>
3.4a	<p>Update the source water protection planning process to achieve resilient, locally appropriate source water protection plans that are informed by science to identify key local threats to source water protection, address drinking water source protection, and identify achievable solutions for implementation.</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: A pilot project with five watershed stewardship groups (WSG) to develop a source water protection (SWP) extension program was completed in 2017. Further progress was achieved annually toward completing the community inventory and risk assessment for completing provincial coverage (29 watersheds) as well as involving all 11 WSGs. This was achieved March 31, 2020. As well, SWP planning processes have been delivered by WSA and WSGs in 15 communities since 2014 and that work will continue with more at-risk communities.</p>
3.4b	<p>Work with Saskatchewan Association of Watersheds (SAW) to more clearly identify the future roles and responsibilities of watershed and aquifer planning groups, including the renewal of source water protection plans</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: As SAW experienced governance issues in which member Watershed Stewardship Groups (WSGs) cancelled their membership in 2018-2019 and the membership remains at nine (9) of the 11 WSGs, WSA will need to assess the role of SAW as it develops over the next year in order to progress further on this action.</p>
3.4c	<p>Evaluate the need to expand source protection planning to additional watersheds or aquifers</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Expansion of source water protection planning is being considered in 2019-20.</p>

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3.4d	<p>Assess and renew the approach to implementing source water protection plans to ensure that threats to source water are mitigated into the future</p> <p>Completion Target Year: 2013</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: A source water protection extension program pilot project report (March 2017) was advanced to executive and direction has been given to proceed with the program (see action 3.4a). As well, the Watershed Stewardship Groups (WSGs) planned implementation related to their role in the agricultural water management program is evolving.</p>
4.1a	<p>Implement the Water Security Agency's 10-year plan for infrastructure rehabilitation and dam safety</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Complete. Following the 2011 flooding, WSA was directed to prepare a comprehensive 10-Year Infrastructure Renewal Plan for rehabilitation of provincially owned water management and control infrastructure. Since then, this plan has become a tool for WSA to track, prioritize and budget for capital projects to reduce the risk of a failure or loss of water management benefit. This plan is a living document that is continuously updated as WSA becomes aware of new infrastructure deficiencies and as conditions change. As such, a majority of the initiatives within the plan have been incorporated into WSA's operational work.</p>
4.1b	<p>Establish legislative requirements for dam safety for both public and private dams and identify long-term strategies for compliance</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: The legislative requirements for dam safety for both public and private dams have been identified. The decision was made to approach this without going through legislative renewal. Therefore, no long-term strategies for compliance are in place at this time.</p>
4.1c	<p>Complete emergency preparedness plans for major Water Security Agency dams</p> <p>Completion Target Year: 2013</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed in 2013-14.</p>

Action Number	Action Description
4.2a	<p>Review existing reservoir operating plans and update them on a priority basis</p> <p>Completion Target Year: 2014 (priority)</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Draft Reservoir Operating Plans have been completed for Rafferty and Grant Devine. These plans potentially impact the International 1989 Agreement for Water Supply and Flood Control in the Souris Basin and have been shared with the US regulators for review and are forming the basis for the development of emergency and interim operating plans in the basin. The process for adopting these plans requires board and intergovernmental interaction, so the timeline for the completion and adoption of these documents is unknown at this time.</p> <p>The Reservoir Operating Plan for Lake Diefenbaker is currently underway, with additional operating plans being completed this fiscal year (2020-21); however, specific reservoirs have not yet been identified.</p>
4.2b	<p>Negotiate transfer of federally-owned infrastructure to the province where appropriate to meet provincial interests</p> <p>Completion Target Year: 2017</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. Twenty federal dams were transferred as of midnight March 31, 2017. Since then, three more federal dams and two canal systems have been transferred to Saskatchewan.</p>
5.1a	<p>Develop improved flood forecasting tools</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Our model inter-comparison research work has been completed and work has started to build hydrologic models for key watersheds. Work on building hydraulic and reservoir simulation models is also well underway. A paired ranking process was utilized to confirm key watersheds based on water supply, dam safety, flood hazard, and social measures. WSA is also in the process of procuring a Model Control and Data Handling platform to tie all the data and model components together into one seamless system. WSA has purchased and installed additional precipitation gauging to support our flow forecasting system. WSA is on course to have a fully functional forecasting system in place for at least one watershed in spring 2021 with the rest completed later in 2021.</p>

Action Number	Action Description
5.1b	<p>Develop a provincial emergency flood response plan that addresses community, individual and local government responsibilities</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Ministry of Government Relations</b></p> <p>Update: Completed. The all-hazards Provincial Emergency Management Plan is reviewed annually and updated as needed.</p>
5.1c	<p>Develop a strategy to ensure communities and the public have access to flood hazard information and are aware of potential flood risks</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA led a project on a cost-share basis with Public Safety Canada's <i>National Disaster Mitigation Program</i> in 2019-2020 to deliver a pilot project to provide 21 flood-prone communities with access to modern flood maps and hydraulic models. WSA accomplished this goal and will be working to evaluate these products and integrate them into government/community flood mitigation and community planning and development lines of business. This was preceded by intensive provincial community flood risk assessment work. The initial work culminated in a Community Flood Vulnerability Assessment Report published in 2017 and included 75 communities. This has since been expanded and refined and considers all incorporated communities in the province. As of March 2020, 105 communities in SK have been identified as being susceptible to recurrent flood damages and work continues to identify which of those communities should have access to modern sophisticated maps and models. Programming to continue to advance community flood mapping will continue to address the highest risks dependent on available funds.</p>
5.1d	<p>Undertake a flood risk assessment of municipal drinking water and wastewater infrastructure</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. WSA's Environmental Project Officers have general awareness of the flood risk to drinking water and wastewater infrastructure. As of March 2019, the Floodplain Mapping Initiative has identified 98 communities in SK susceptible to flooding. LiDAR acquisition initiated in April 2019. Further assessments have raised the total to 117 communities, with flood plain mapping completed for 21 of these communities during the 2019-20 fiscal year.</p>
5.1e	<p>Encourage municipalities to map flood risk areas associated with undercapacity of wastewater and storm sewer infrastructure as projected in the Insurance Bureau of Canada's report on impacts associated with climate change</p> <p>Completion Target Year: 2020</p> <p><b>LEAD AGENCY: Ministry of Government Relations</b></p>

Action Number	Action Description
	<p>Update: The province developed a broad disaster mitigation strategy with a focus on flood risk, in part to capture funding under the Federal National Disaster Mitigation Program (NDMP). The province assisted Corman Park, Saskatoon and Prince Albert in obtaining federal NDMP flood map funding. The province (i.e., Water Security Agency) was approved for a multi-municipal flood mapping project for the final 2018 program intake with the project to be completed in 2020.</p>
5.1f	<p>Implement the flood protection and prevention measures established in <i>The Statements of Provincial Interest Regulations (SPI)</i> into local official community plans and zoning bylaws</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Ministry of Government Relations</b></p> <p>Update: This is ongoing and is being implemented as communities renew their official community plans and zoning bylaws. In 2019-20, 60 new planning bylaws were approved with flood prevention and protection measures as contained within SPI. In addition, 898 subdivisions totaling 1,563 sites were approved that meet the flood protection standards contained within the SPI.</p>
5.1g	<p>Pursue negotiations with Canada to develop and implement a new long-term federal-provincial program for flood mitigation as part of an all hazards program</p> <p>Completion Target Year: 2028</p> <p><b>LEAD AGENCY: Ministry of Government Relations</b></p> <p>Update: The province worked with the Federal Government in addressing disaster reduction for communities under the National Disaster Mitigation Program (NDMP). In 2015, Saskatchewan was approved for NDMP funding to complete a provincial natural hazard risk assessment to rank our most costly and dangerous natural hazards. This work was completed in fall 2018 by the Saskatchewan Research Council. The province undertook a flood mapping project of priority communities and assisted Corman Park, Saskatoon, and Prince Albert. The final NDMP intake concluded in October 2018 and all projects must be completed by March 31, 2020.</p>
5.2a	<p>Assess the range of alternatives and implement strategic actions to manage drainage</p> <p>Completion Target Year: 2013</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. WSA has implemented The Agricultural Water Management Strategy. As part of the Strategy, new policies and processes are developing and evolving, and efficiencies are being gained. WSA continues to focus efforts in achieving compliance in the vulnerable watersheds and areas with high numbers of complaints.</p>

Action Number	Action Description
5.2b	<p>Develop a results-based drainage works approval process and associated enforcement strategy, including the potential use of financial penalties</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA has developed a new drainage works approval process and is continuing to work on the compliance and enforcement strategy. An essential component of the new process is the communication component of the new Strategy, which will help agricultural producers to understand and move towards compliance.</p>
5.2c	<p>Develop new strategies to effectively address excessive moisture concerns on agricultural lands, including provision of information and advice on proper drainage design and management and consideration of the benefits of wetland retention and restoration</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA is in the process of developing and implementing agricultural water management compliance and enforcement policies, mitigation policies and operational procedures to effectively address excessive moisture concerns on agricultural lands.</p>
5.3a	<p>Develop a coordinated provincial drought response plan that includes monitoring, preparedness, response, and recovery approaches</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Ministry of Agriculture</b></p> <p>Update: Completed in 2016. The agricultural drought response plan was completed in the 2015-16 year. Work on a provincial hydrological drought strategy re-initiated in late 2018-19.</p>
5.3b	<p>Develop new regulations for water allocation to help manage water shortages during droughts</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. Working on development of water allocation legislation. Water allocation regulations will follow the legislation. A drought strategy needs to be developed.</p>

Action Number	Action Description
6.1a	<p>Complete a strategic review of major monitoring programs, including surface water, groundwater and water quality</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. This was completed in 2015-16 Q1 with Weather Innovations launching our precipitation data mapping site. A more collaborative approach with other provincial agencies to establish a SK mesonet (a network of automated weather and environmental monitoring stations) is being investigated by the SRC. WSA completed an assessment of water quality monitoring activities at primary network monitoring sites in Saskatchewan in 2018-19.</p>
6.1b	<p>Develop an integrated geographically referenced database to provide government-wide and public access to water-based information</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: A new “Maps and GIS” webpage was created: <a href="https://www.wsask.ca/Water-Info/Maps-and-GIS/">https://www.wsask.ca/Water-Info/Maps-and-GIS/</a>. It is a “one-stop-shop” for the public to find WSA’s spatial data. This includes links to WSA’s interactive web-based mapping applications, downloadable links to WSA’s most popular pdf maps, as well as the URLs to create “real-time” connections to some of WSA’s GIS layers.</p> <p>A new interactive map to show the Aquatic Habitat Protection Permit (AHPP) zones was created: <a href="https://wsask.maps.arcgis.com/apps/webappviewer/index.html?id=0d9b1eb606cb4fb184df7d35c3dac9c6">https://wsask.maps.arcgis.com/apps/webappviewer/index.html?id=0d9b1eb606cb4fb184df7d35c3dac9c6</a>. This app replaces a static map image that was used previously and enables the public to determine which AHPP zone their project falls within, and therefore which AHPP Specialist they need to contact. It also includes the contact information of the AHPP Specialists.</p> <p>A new web-based mapping application showing the location of the 72 WSA owned dams was created, enabling users to zoom to the location of a dam and discover basic information about it: <a href="https://gis.wsask.ca/WSAOwnedDams/">https://gis.wsask.ca/WSAOwnedDams/</a></p> <p>A new interactive map for the Primary Water Quality Station was created: <a href="https://gis.wsask.ca/PrimaryWaterQualityStations/">https://gis.wsask.ca/PrimaryWaterQualityStations/</a>. The purpose was to replace the old (poor quality) map on the SaskH2o site with a new, more functional and attractive version.</p> <p>Continued development of an Information Management Plan for WSA is a requirement for continued work on the above.</p>

Action Number	Action Description
6.1c	<p>Consolidate precipitation data and information through the development of cooperative agreements and partnerships with government and non-government organizations</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. A cooperative agreement with Weather Innovations Network for rainfall mapping products has been signed.</p>
6.2a	<p>Establish protocols for informing the public during emergencies related to flood, drought, infrastructure failure, and water quality and drinking water concerns</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed in 2014-15. The work completed was directly related to the SaskAlert System which is the Government of Saskatchewan's emergency public alerting program that provides critical information on emergencies in real time. Saskatchewan ministries, crowns and agencies of the Province have the ability to issue alerts for their areas of responsibility when emergency events are occurring that have the potential to affect life and safety.</p>
6.2b	<p>Develop a user-friendly water information portal on the new Water Security Agency web site to make information on water and water management issues widely available</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: In an effort to improve the user experience on the WSA website (wsask.ca), WSA Communications and Client Services is in the process of developing a new external website platform. This includes investigating options to integrate the Sask H2O website (saskH2O.ca) as part of this project.</p>
6.2c	<p>Report on progress in implementing the <i>25 Year Water Security Plan</i></p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Progress in implementing the <i>25 Year Water Security Plan</i> is reported in parallel with the development of the WSA Annual Report. On an annual basis, WSA gathers the updates associated with the <i>25 Year Water Security Plan</i> and make them publicly available on the WSA corporate website (wsask.ca).</p>

Action Number	Action Description
6.2d	<p>Publish the State of the Watershed Report every five years in an expanded form which can be applied by government in the renewal of the <i>25 Year Saskatchewan Water Security Plan</i> and by the public in decision making</p> <p>Completion Target Year: Paused</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA discontinued publishing the State of the Watershed Report; however, the agency continues to collaborate with the Ministry of Environment by contributing material to the State of Environment Report.</p>
6.3a	<p>Support the work of the Global Institute for Water Security at the University of Saskatchewan in their assessment of the water supply and quality issues in the South Saskatchewan River</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA collaboration with the Global Institute of Water Security (GIWS) has expanded beyond the South Saskatchewan River to include other research topics of mutual interest including agricultural drainage.</p>
6.3b	<p>Identify opportunities to collaborate with external academic and research partners on defining and undertaking strategic research initiatives</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Work on historic flows in North Saskatchewan River by Dave Sauchyn at Prairie Adaptation Research Collaborative (PARC) is nearing completion. The Global Institute for Water Security (GIWS) ResNet project (policy aspects of wetland drainage through biophysical modeling and stakeholder discussions) continues with WSA participation. Sampling sites selected, and equipment procurement partially completed for the GIWS West Lang project funded by the ECCC Lake Winnipeg Basin fund to assess nutrient loading of an approved drainage network on the Regina Plains and efficacy of erosion controls and other BMPs on nutrient loading.</p> <p>Phase 2 of Strickert Qu'Appelle sociohydrology modeling project engaged water managers to quantify perceptions of BMP efficacy in January 2020.</p> <p>Montreal Polytechnique project to incorporate economic elements into the agricultural BMP model (Qu'Appelle sociohydrology modeling Phase 3) participated in a modeling workshop with researchers, WSA and MoA in January 2020.</p> <p>Collection of spring freshet water quality and quantity data is nearing completion for the second year of the Ministry of Agriculture Proactive Stewardship Pilot to monitor efficacy of Beneficial Management</p>

Action Number	Action Description
	<p>Practices on spring runoff water quality in Tetreau/Patriotic Creek.</p> <p>WSA participates on graduate student committees with university researchers on technical projects with strategic relevance to water quantity and quality issues.</p> <p>WSA, Saskatchewan Research Council and SaskWater is investigating options for possible pilot projects to evaluate the feasibility of using treated effluent to irrigate trees. This work started in 2020 and may be one of many options to increase the province's irrigation capacity as referenced in the recent Government Growth Plan.</p>
7.1a	<p>Develop modern and comprehensive water legislation</p> <p>Completion Target Year: 2014</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: No expectation that legislation will be brought forward until fiscal 2021/22.</p>
7.2a	<p>Establish provincial Deputy Ministers' Water Committee</p> <p>Completion Target Year: 2013</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. Committee held one meeting.</p>
7.2b	<p>Work with Canada to identify opportunities to improve regulatory and program coordination and collaboration</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA has a protocol agreement with Fisheries and Oceans Canada (DFO) and Environment Canada to discuss issues. WSA has reviewed the existing protocol agreement and offered to meet with Canada to renew the agreement.</p> <p>In 2019-20, WSA initiated renegotiation of the agreement with Environment and Climate Change Canada (ECCC) for the administration of the federal Wastewater System Effluent Regulations in Saskatchewan. At the end of the fiscal year both provincial and federal Ministers responsible had accepted the draft agreement in principle. It is anticipated that the administration agreement will be endorsed in summer 2020 as a means to foster ongoing cooperation with ECCC and the Department of Fisheries and Oceans on municipal wastewater management in Saskatchewan.</p>

Action Number	Action Description
7.3a	<p>Develop improved models for engagement with First Nations and Métis to better understand their perspectives on water and water management and facilitate effective working relationships</p> <p>Completion Target Year: Paused</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA had been moving from a model focused on training staff for duty to consult activities to also include a mentorship-based approach to teach an interest-based and collaborative approach typically used for engagement discussions. However, while such a collaborative approach does facilitate effective working relationships, the duty to consult activities remain and staff time and resources are needed to adequately support these activities.</p>
7.3b	<p>Where water management decisions may have an adverse impact on the exercise of treaty and aboriginal rights and pursuit of traditional uses, consult with First Nations and Métis in accordance with the First Nations and Métis Consultation Policy Framework</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA continues to consult with First Nation and Métis local governments regarding regulatory approvals or planning initiatives to identify potential adverse impacts to treaty or Aboriginal rights and to seek options for avoiding or mitigating such impacts.</p>
7.4a	<p>Establish the Provincial Water Council with sector-based representation</p> <p>Completion Target Year: Paused</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA has developed an engagement strategy which includes regular meetings with major stakeholders instead of a water council.</p>
7.5a	<p>Investigate new approaches to engage the public and local governments on water issues and decisions of importance to them</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. WSA has developed a new engagement strategy.</p>

Action Number	Action Description
7.6a	<p>Continue to work with the Prairie Provinces Water Board to evaluate the resiliency of the Master Agreement on Apportionment</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed. Work to continue as ongoing issues arise. WSA is an ongoing member of the Prairie Provinces Water Board.</p>
7.6b	<p>In support of the Mackenzie River Basin Board, negotiate bilateral agreements with Alberta and Northwest Territories</p> <p>Completion Target Year: 2016</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Work is on hold pending other priority items.</p>
7.6c	<p>Continue to work with the International Souris River Board of the International Joint Commission (IJC) to establish an enhanced operating plan for Rafferty and Grant Devine (formerly Alameda) reservoirs</p> <p>Completion Target Year: 2015</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Work with US interests through the International Joint Commission on development of reservoir operating plans and review of the operating agreement.</p>
7.6d	<p>Continue to support the work of the Council of the Federation Water Stewardship Council to use information and experience from other jurisdictions across Canada to address water problems in Saskatchewan</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Completed in 2013-14. Study aquifers around Regina and Estevan area. Develop and maintain models of different basins. Work to continue as ongoing issues arise.</p>

Action Number	Action Description
7.6e	<p>Continue to work with the Canadian Council of Ministers of the Environment to address emerging water issues common to all jurisdictions</p> <p>Completion Target Year: Ongoing</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: WSA has and continues to participate on the Canadian Council of Ministers of the Environment (CCME) Water Management Committee to address water related issues common to jurisdictions across Canada. Saskatchewan is providing input into prioritization of emerging water issues in order to direct Water Management Committee work over the next several years. Will be ongoing indefinitely.</p>
7.7a	<p>Undertake comprehensive water management analyses for priority surface and groundwater systems</p> <p>Completion Target Year: 2014 (priority)/2016 (other)</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Refinements and improvements associated with this action item have progressed; however, the work has evolved since the action was originally developed. Therefore, WSA will revisit the purpose and utility of this action as part of a <i>25 Year Water Security Plan</i> renewal.</p>
7.7b	<p>Implement new watershed modeling and database management systems to allow efficient evaluation of new requests for water and ensure that cumulative effects are considered</p> <p>Completion Target Year: 2014 (priority)/2016 (other)</p> <p><b>LEAD AGENCY: Water Security Agency</b></p> <p>Update: Refinements and improvements associated with this action item have progressed; however, the work has evolved since the action was originally developed. Therefore, WSA will revisit the purpose and utility of this action as part of a <i>25 Year Water Security Plan</i> renewal.</p>