



Salt Spring Island Watershed Protection Alliance

Regular Meeting Draft Agenda

Date of Meeting: Monday June 25, 2018 10:30 am - 12:30 pm

Location: SD64 112 Rainbow Road, Salt Spring Island, B.C.

Acronyms:

AGRI - Ministry of Agriculture

CEWG - SSIWPA Conservation and Efficiency Working Group

CRD - Capital Regional District

FLNRO - Ministry of Forests, Lands and Natural Resource Operations

NSSWD - North Salt Spring Waterworks District

MOE (ENV) - Ministry of Environment

SSIWPA - Salt Spring Island Watershed Protection Authority

TWG - SSIWPA Technical Working Group

1. CALL TO ORDER

2. APPROVAL OF AGENDA

3. MINUTES

3.1 Draft minutes of the April 20, 2018 Regular Meeting of the SSIWPA Steering Committee - attached for approval **pp. 4-7**

3.2 Draft minutes of the June 12, 2018 Special Meeting of the SSIWPA Steering Committee - attached for approval **pp. 8-12**

4. BUSINESS ITEMS

4.1 **Chair's report** - Chair Grams

4.2 **St. Mary Lake water quality update** – NSSWD Board Representative

4.3 **Cusheon Lake water quality update** – Beddis Water Commissioner

4.4 **Coordinator's reports (April and May)** – attached **pp. 13-16**

- 4.5 **SSIWPA Action Log** - attached **pp.17-19**
- 4.6 **Technical Working Group update**
- 4.7 **Conservation and Efficiency Working Group update**
- 4.8 **Income Statement dated March 31, 2018** - attached for information **p.20**
- 4.9 **Strategic Planning Integrated Freshwater Management Program Next Steps**
- 4.9.1 Discuss and agree purpose and general tasks for subcommittee
- 4.9.2 Strike a strategic subcommittee
- Islands Trust Staff recommendation: *THAT SSIWPA direct the coordinator to forward the final Strategic Planning Day report to the working group subcommittee when it is received by Islands Trust and request the subcommittee report back to SSIWPA on July 20 with the refined workplan.*
- 4.10 **Outreach and Communications**
- 4.10.1 Annual Report 2017 DRAFT 2 - attached **p. 21**
- 4.10.2 Display Booth 2018 proposed changes
(Coordinator will display current versions in the meeting)
- attached **pp.33-34**
- 4.10.3 Projects Brochure DRAFT 2 - attached **pp.35-36**
- 4.11 **Correspondence**
- 4.11.1 From K. Chipperfield re: TWG resignation 2018-05-02 **p. 37**
- 4.11.2 From K. Rathfelder, ENV 2018-05-03 **p. 38**
- 4.12 **Announcements, links and events**
- 4.12.1 **POSTPONEMENT:**
"Monthly Groundwater Budget Analysis for Aquifers of Salt Spring Island" set for 2018-05-09 by Golder Associates to Salt Spring Island Community
- 4.12.2 SSIWPA Display Booth at Fall Fair - September 15th & 16th, 2018
- 4.12.3 SSIWPA Rainwater Home Tour 2018 - Saturday October 13th, 2018

5. OTHER BUSINESS

5.1 Comments or questions from the public

6. CLOSED MEETING (Distributed Under Separate Cover)

6.1 Motion to Close Meeting - That the meeting be closed to the public in accordance with the Community Charter, Part 4, Division 3 s. 90(1 [b] for the purpose of considering:

- TWG submission to Steering Committee - review of draft report by consultant to a SSIWPA member agency

AND that the recorder and staff attend the meeting.

6.2 Recall to Order

7. UPCOMING MEETINGS

1. July 20, 2018 - 10:30 am - 12: 30 pm, @ School District Boardroom
2. August - There is no regularly scheduled meeting.
3. September 7, 2018 10:30 am - 12: 30 pm, @ School District

This is a special meeting agreed in January 2018 by steering committee.

Purpose: to finalize IFWM 2018-19 workplan, proposed outreach plan and SSIWPA workplan budget.

4. September 21, 2018 10:30 am - 12: 30 pm, @ School District Boardroom
5. October 19, 2018
6. November 23, 2018

8. ADJOURNMENT



Salt Spring Island Watershed Protection Alliance

Minutes of a Regular Meeting

- Date of Meeting:** Friday, April 20, 2018
Location: School District Portable, 112 Rainbow Road
 Salt Spring Island
- Members Present:** George Grams, Chair, Islands Trust Trustee
 Sharon Bywater, Fernwood Water Service Area Commissioner
 Wayne McIntyre, Deputy Chair, Capital Regional District (CRD) Director
- Staff Present:** Shannon Cowan, Coordinator
 Justine Starke, Island Planner
 Sarah Shugar, Recorder
- Technical Working Group Liaison:** John Millson, Chair, SSIWPA Technical Working Group
- Media and Others Present:** Two members of the public
- Regrets:** Dale Green, Senior Environmental Science Officer, Environmental Protection, Capital Regional District
 Doreen Hewitt, Beddis Water Service Area Commissioner
 Pat Lapcevic, Ministry of Forests, Lands and Natural Resource Operations (FLNR)
 Michael McAllister/Robert Steinbach, North Salt Spring Waterworks District Representative

These minutes follow the order of the agenda although the sequence may have varied.

1. CALL TO ORDER

Chair Grams called the meeting to order at 10:31 a.m.

2. APPROVAL OF AGENDA

By general consent, the agenda was approved.

3. MINUTES

3.1 Draft Minutes of the March 27, 2018 Salt Spring Island Watershed Protection Alliance Regular Meeting

By general consent, the Salt Spring Island Watershed Protection Alliance minutes of March 27, 2018 were adopted.

4. BUSINESS ITEMS

4.1 Chair's Report

Chair Grams reported he attended the Salish Sea Ecosystem Conference in Seattle April 4-6, 2018 and highlighted progressive work on watersheds in Washington. He met with Marshall Heinekey, North Salt spring Waterworks Chair regarding inter-agency cooperation. Over 100 members of the public attended the town hall portion of the Salt Spring Island Local Trust Committee meeting on April 19, 2018 to address the affordable housing crisis. The elected officials are planning to organize a forum on affordable housing. Chair Grams spoke with a representative of Platform Properties regarding sharing well log information for Bullock Lake Cottages.

J. Millson arrived at 10:34 a.m.

4.2 St. Mary Lake Water Quality Update – NSSWD Board Representative - none

4.3 Cusheon Lake Water Quality Update – Beddis Water Commissioner - none

Coordinator Cowan reported the beaver dam at lake outlet is very small and does not hold back much of the water flowing into Cusheon Creek.

4.4 Coordinator's Report And Action Log

Coordinator Cowan presented the Coordinator's Report for the period of March 1-31, 2018 and added the following highlights for April: the press release that was intended to be in the Driftwood newspaper on April 4, 2018 is scheduled to be included in the April 25, 2018 paper; Coordinator Cowan attended the Water Stewardship In a Changing Climate Symposium in Nanaimo on April 11-12, 2018; preparations are underway to host a booth at the Earth Day event on April 22, 2018. Approximately seven suitable wells have been shortlisted for the Well Monitoring pilot project. And, it is anticipated that the equipment for those on the shortlist who agree will be installed in May. W. Shulba is still looking for an appropriate site for monitoring groundwater levels in the southern aquifer (the south side of Fulford Valley) and the west side of the St. Mary Lake aquifer for the Well Monitoring pilot.

4.5 Technical Working Group Update

TWG Co-chair Millson reported the TWG will present updates regarding the Well Inventory Program and the Groundwater Monitoring pilot at the next SSIWPA meeting. The report regarding Phosphorus Movement in Soils pilot project has not been finalized and will be forwarded to Steering Committee prior to next meeting. He reported the Salt Spring Island Water Preservation Society has launched a Salt Spring Island Freshwater Catalogue Project.

4.6 Conservation And Efficiency Working Group Update - none

4.7 Options for Steering Committee Membership 20180223 item 4.8.2

By general consent, the Salt Spring Island Watershed Protection Alliance agreed to defer this item to the Strategic Planning Session.

4.8 SSIWPA IFWM Strategic Planning

Planner Starke reported it is important that the Strategic Plan outcomes reflect input from all of the member strategies and it has been challenging to schedule the planning session. The proposed date is Tuesday, June 12, 2018.

4.9 Outreach and Communications - none

4.10 Announcements, links and events

4.10.1 Sunday April 22, 2018 Earth Day in Centennial Park

4.10.2 "SSI Aquifer Mapping and Water Budget Analysis" Presentation of Results by Golder Associates and FLNR, ENV

Wednesday May 9, 2018, 10:00 a.m. - 12:00 p.m. at the Community Gospel Church Sanctuary.

5. OTHER BUSINESS

5.1 Comments and Questions from the Public - none

6. CLOSED MEETING

6.1 Motion to Close Meeting

At 11:07 a.m., it was **MOVED** and **SECONDED** that the Salt Spring Island Watershed Protection Alliance close this meeting to the public subject to Community Charter, Part 4, Division 3 s. 90(1) [b] for the purpose of considering Technical Working Group new member application and that that the recorder and staff attend the meeting.

CARRIED

6.2 Motion to Open the Meeting

At 11:12 a.m., it was **MOVED** and **SECONDED** that the Salt Spring Island Watershed Protection Alliance re-open this meeting to the public subject to Section 89 of the Community Charter.

CARRIED

7. RISE AND REPORT

The Salt Spring Island Watershed Protection Alliance appointed William Shulba to the Technical Working Group.

8. UPCOMING MEETINGS

The next regular meeting is scheduled on Friday, May 18, 2018, 10:30 a.m. to 12:30 p.m. at the School Board Meeting Room, 112 Rainbow Road.

9. ADJOURNMENT

By general consent the meeting adjourned at 11:13 p.m.

George Grams, Chair

CERTIFIED CORRECT:

Sarah Shugar, Recorder

DRAFT



Salt Spring Island Watershed Protection Alliance

Notes of a Special Meeting

Date of Meeting: Tuesday, June 12, 2018
Location: Community Gospel Church, 147 Vesuvius Bay Road
 Salt Spring Island

Members Present:

George Grams, SSIWPA Chair, Islands Trust Trustee; Sharon Bywater, (for Lorrie Hunt) Fernwood Water Service Area Commissioner; Doreen Hewitt, Beddis Water Service Area Commissioner; Dale Green, Pat Lapcevic, Ministry of Forests, Lands and Natural Resource Operations (FLNR); Wayne McIntyre, SSIWPA Deputy Chair and Capital Regional District (CRD) Salt Spring Island Electoral Area Director; Robert Steinbach, North Salt Spring Waterworks District Representative

Conservation and Efficiency Working Group Members:

Sandra Ungerson, Chair, SSIWPA Conservation and Efficiency Working Group; Rob Kline

Technical Working Group

John Millson, Chair, SSIWPA Technical Working Group; Sylvia Barroso, Ministry of Forests, Lands and Natural Resource Operations (FLNR); Fred Beall, Member at-large

Staff Present:

Shannon Cowan, SSIWPA Coordinator; Stefan Cermak, Islands Trust Regional Planning Manager, Islands Trust; Justine Starke, Islands Trust Island Planner; William Shulba, Islands Trust Senior Freshwater Specialist; David Marlor, Islands Trust Director Local Planning Services; Mike Wei, Facilitator; Sarah Shugar, Recorder

Special Guest:

Honourable Janet Austin, Lieutenant Governor of BC

Member of the public:

Ron Hawkins

Chair Grams welcomed everyone in attendance at 10:10 a.m.

Justine Starke presented an overview of the Salt Spring Island Watershed Protection Alliance (SSIWPA) and introduced the objectives for the strategic planning special meeting.

Mike Wei presented the agenda for the meeting.

Mike Wei presented some elements of the Water Sustainability Act (WSA) in the context of SSIWPA's workplan.

The following questions/comments were noted regarding the presentation:

- The priority of access to water is based on the date of licence (FITFIR) and the water licence is attached to the property title.
- How would the connection between groundwater and rights to a stream be made? It would be evidence and geology based.
- There is a three-year transition period in the WSA and there are regulations regarding date of first use.
- Water licenses are not issued for groundwater for household use and are issued for irrigation or commercial use.
- How big is the problem that we want the government to solve? Is it big enough that it would benefit from having the government provide policy?
- There are applications that will be denied because a stream is fully allocated. Fulford Creek is a designated sensitive stream.
- There are applications for streams on Vancouver Island that are denied unless the applicant can demonstrate sufficient water storage.
- Can area based regulation require monitoring? The government authority to make regulation is very broad. If a connected stream is not being monitored how do you show that it is impacted? Do you focus on what you think is the problem or do you approach it broadly?
- If the plan does not contain legislative change or statutory recommendations the Minister can accept the plan otherwise it would be referred to the Cabinet.
- The Township of Langley has a draft water management plan that has not been adopted.
- The WSA outlines the process for Water Sustainability Plans.
- The Minister or another party can initiate a water sustainability plan.
- The Allocation Plan for SSI was developed in 1993.
- Is there funding that is attached once the province has approved a WSP to be done?
- The Township of Langley did receive funding but there is not a water sustainability fund that communities can apply to.
- A water plan would allow you to adjust rights or the province could take back some of those rights. One of the reasons the Langley plan was put forward was due to significant issues with groundwater.
- How do we know what the right tool is? Is there a metric?

Honourable Lieutenant Governor Janet Austin, staff and Trustee Peter Grove arrived to the meeting at 11:02 a.m. Introductions were carried out.

Refreshments were served at 11:10 a.m.

William Shulba presented a short film on freshwater in the Islands Trust Area.

Honourable Lieutenant Governor Janet Austin expressed support for the work being done to preserve and protect freshwater resources.

Honourable Lieutenant Governor Janet Austin left the meeting.

William Shulba introduced the instructions for the next portion of the meeting. The group divided into the following three groups / areas of interest:

1. Water Supply and Conservation
2. Watershed Protection

3. Groundwater

During the working lunch period, group members developed problems related to the water resources and watershed protection in the Salt Spring Island Local Trust Area, and questions related to the problems within the theme of their table. Facilitators were assigned to each of the groups to assist each group to refine their problems.

After lunch, the group returned to plenary (all participants as a single large group).

The 'Watershed Protection' group spokesperson presented the results from that group summarized as the following proposed problems:

- i) We need to preserve hydrological processes through watershed protection planning.
- ii) There is a lack of coordination of fundamental data management.

The 'Water Supply and Conservation' group spokesperson presented the results from that group summarized as the following proposed problems:

- iii) How can we use the finite water supply in the most consistent, fair, equitable and sustainable way?
- iv) There is no water conservation requirement in the B.C. Building Code and this is a disincentive to water use efficiency.
- v) There is not enough water conservation and education (incentives) on Salt Spring Island for effective conservation behaviour.

The 'Groundwater' group spokesperson presented the results from that group summarized as the following proposed problem:

- vi) In a place where surface water is fully recorded, large demand(s) for groundwater could be impacting other users or environmental uses.

There were several questions posed and full plenary discussion about the presentations by each group. The notes and results of the plenary portion are more fully presented in the workshop report by Facilitator Wei.

Facilitator Wei presented some of the ways that problems and questions generated by the breakout groups in this meeting could be used to generate Integrated Freshwater Management (IFWM) Program questions for SSIWPA. He then presented the SMART method for testing that tasks in the existing IFWM workplan are appropriate and effective.

SMART: Specific, Measurable, Achievable, Relevant and Time-bound.

Facilitator Wei presented three example tasks from the existing IFWM Workplan, and a series of questions that were developed in advance of the workshop to be used to filter the tasks to ascertain whether they were appropriate and necessary, and in the right order for SSIWPA to undertake.

Filter criteria for SSIWPA tasks:

1. Does it relate to the problems? Which one(s)?
2. Is this something on which SSIWPA should focus?
3. Does the task require the effort of multiple partners? (Is it a sole agency responsibility?)
4. Will task directly benefit multiple parties (or not)?
5. Is the task at the right scale?
6. How urgent is it? This year, 3 yrs, 5-10 yrs? Is the task in the right order?

It was suggested that clear definition of any item in the workplan (objective, task or otherwise) should be applied.

Two suggestions for additional filters were put forward:

7. What are the implications if we don't do it? (What other communities have done it?)
8. Use a weighting mechanism for determining whether tasks belong on the SSIWPA workplan, or not:
 - a. Estimate degree of impact (on community) of doing the task.
 - b. Estimate the group's ability to do it.
 - c. Multiply potential impact (or impact of not doing the task) by the group's ability to achieve it.

The three example tasks were discussed with respect to the SMART and the filtering criteria. The resulting discussion notes are included in the workshop report by Facilitator Wei.

Facilitator Wei proposed the first Next Step following the workshop was that he would synthesize the results from the problems that groups generated in this meeting into possible Objectives and recommendations in the workshop report.

Coordinator Cowan presented four options for possible steps for discussion by the group that were pre-developed by the facilitators:

- i) SSIWPA forms a subcommittee of agency staff
- ii) SSIWPA directs TWG
- iii) Islands Trust staff, coordinator
- iv) Special meeting(s) of Steering Committee

The first option was changed to read:

- i) SSIWPA forms a subcommittee (it may contain steering committee members, working group members and agency staff) to generate a strategic plan.

By general consent, first revised option was preferred by the workshop participants.

It was suggested that these Workshop Notes and the pending Workshop Report by Facilitator Wei be delivered and considered by all participants prior to Steering Committee deciding next steps.

Islands Trust Staff and Coordinator acknowledged and thanked Facilitator Wei.

Facilitator Wei thanked each participant for contributing to the workshop.

Chair Grams acknowledged and thanked the facilitators, participants and observers.

The meeting was adjourned at 3:23 pm.

DRAFT



**Salt Spring Island Watershed Protection Alliance Coordinator's Report
For the period: 2018-05-01 through 2018-05-31**

SC - Steering Committee

CEWG - Conservation and Efficiency Working Group

TWG - Technical Working Group

Administrative Responsibilities:

1. Meetings:

- ✓ created agenda covers and collated agenda items SC 20180518 and in camera agenda for same date
- ✓ sought approval of draft May agenda from staff and Chair
- ✓ tested for quorum
- ✓ cancelled May 18, 2018 SC meeting due to insufficient meeting content at request of staff and Chair (posted cancellation on website)
- ✓ cancelled May 18 room booking
- ✓ made room bookings for July, September and October-November at School District as per agreed meeting calendar set 2018-01 by SC
- ✓ prepared venue rental date log for School District 64 (invoicing in June) to be sent after June meeting is confirmed.
- ✓ confirmed Strategic Meeting June 12 2018 room details with venue, caterer
- ✓ confirmed liability insurance documentation sent to venue by Trust staff

2. SSIWPA Membership: none

3. Records Management:

- ✓ SC Minutes 20180327 (adopted) (regular) loaded to shared drive
- ✓ SC Minutes 20180327 (adopted) (closed) sent to Trust staff and SC, signed, filed
- ✓ SC Minutes 20180327 (adopted) (regular) sent to Trust staff and SC, signed, filed
- ✓ TWG Agenda Package 20180411 loaded to shared drive

4. SSIWPA Website:

- ✓ advertised postponement of May 9 Golder results public event
- ✓ created new Watermark post about water conservation
- ✓ sent May Watermark newsletter edition to subscribers

5. Mail-outs and public outreach:

- ✓ entered contact information (name, email) for 73 new contacts (from Rain Tour 2017 draw tickets) to add to community mailing list for annual report mailout and invitation to Rain Tour 2018, and invitation to join SSIWPA mailing list permanently
- ✓ drafted Watermark article news post about GPDR and personal information safety to go to subscriber list in June edition

6. Public inquiries and correspondence:

- ✓ liaised with >20 wellowners about potential for their participation in the Groundwater Monitoring Pilot project
- ✓ received stream observation notes from McFadden creek resident
- ✓ received suggestion for engaging with local business re: rain harvesting discount to event participants (rain tour 2018 or other stewardship talks)
- ✓ communicated with some potential volunteers about new WPS Freshwater Catalogue (FWC) citizen stream and wetland monitoring initiative

7. Action lists and decision logs

- ✓ updated action list and decision log for SC, placed in upcoming agenda
- ✓ corresponded multiple ways and times with member agency representatives and staff about action items in progress

Coordination of Working Groups and Advisory Committees:

- ✓ phone meeting with CEWG Chair and set timeline for work tasks
- ✓ coordinated TWG member communications (Soil P project)
- ✓ updated action lists for WGs

Financial Reporting and Budgeting:

- ✓ received revised and corrected Year End Income Statement from Islands Trust
- ✓ placed Year End Income Statement on upcoming SC agenda

Coordination and Facilitation

8. Integrated Freshwater Management Program:

- ✓ Readings and facilitation planning to assist Strategic Planning Day June 12th
 - corresponded with Planner Starke, Chair Grams about Strategic Planning day facilitation and agenda content, terminology, IFWM program objectives, facilitator's view of SSIWPA strengths and challenges in communicating and planning together, and distinction of strategies from tasks.
 - review of organizational direction/strategic terminology, definitions, group process and review of guidance documents and history of SSIWPA
 - read Englishman River Habitat Status Report (2013) to get ideas for implementation and checking up on action impacts stage of IFWM program.
- ✓ Stream Monitoring - coordinated TWG volunteer with FLNR for monitoring flow in Fulford Creek
- ✓ Groundwater Monitoring
 - met with Project co-lead Shulba about all possible sites from outreach campaign for suitable monitoring wells
 - created next steps action list for project team after meeting and coordinated communication follow-up (several emails May 15-30)
 - communicated with wellowners about parameters for the project
 - reviewed Google Earth location map for proposed shortlist
 - coordinated next steps for well selection, terms of use agreements with owners (in process at time of writing)
- ✓ Lake level monitoring (Cusheon, other)
 - facilitated/ coordinated the setting of objectives, equipment and budget, timeline, task list and resource sharing agreement between SSIWPA Staff Advisor D. Green (CRD) and SSIWPA Staff Advisor W. Shulba (Islands Trust) (in process, plan for July launch)
- ✓ Inter-agency Correspondence:
 - invited CRD Senior Manager and Engineer to ssiwpa strategic planning day

9. Community Engagement:

Annual Report

- ✓ discussed suggested changes to draft report with NSSWD staff

- ✓ created changes in new draft report, sent to NSSWD SC Member Representatives
- ✓ oversight of work by designer

Display Board and Outreach materials

- ✓ created changes to project brochure content and sent to designer (in process next draft for June meeting)
- ✓ created revisions for 2017 display board posters for consideration at upcoming SC meeting

Watermark newsletter

- ✓ news post on conservation
- ✓ lake level status report update on website and link on newsletter
- ✓ cancelled event May 9 post
- ✓ event post for May 20th CRD sponsored water wise workshop with Gord Baird
- ✓ sent watermark edition early May

Events and Publicity

none this month



Action Log May 2018

Actions minuted
2018-04-20

| Item | Action | Who | Status |
|-------------------|--|-----------------------------------|--------------------------------|
| 2018-04-20 | no new actions | | |
| 2018-03-27 | | | |
| 4.9.1.1 | NSSWD Board of Trustees would discuss NSSWD projects and how they are depicted in IFWM program in Annual Report Draft - provide suggested changes to Coordinator for next Draft | NSSWD | in process |
| 4.9.4 | Chair Grams will raise the issue of involvement of Islands Trust staff (First Nations Coordinator) for SSIWPA communications and outreach and education to First Nations who have traditional unceded territories in the Salt Spring Island Local Trust Area with Islands Trust Director of Local Planning Services. | Chair Grams | in process |
| 4.9.5 | SSIWPA-SC member agency reps will review Draft Communications Protocol and provide comments/track changes by April 10, 2018 | All Member Representatives | in process |
| 4.9.4 | Outreach to First Nations (pending response to 4.9.4 this meeting) | Coordinator | pending |
| 2018-02-23 | | | |
| 4.5 | SSIWPA agreed that there is interest in the TWG proposal dated February 8, 2018 and that the Steering Committee would revisit the proposal following receipt of the Golder Groundwater Budget Report. | Steering Committee | pending final GW Budget report |
| 2017-11-24 | | | |
| 3.2 | Research publication protocol of other agencies (as part of Communications Protocol for SSIWPA) and report to Steering Committee | William Shulba | in process |

Completed Actions

| Item | Action | Who | Meeting Date |
|--------|--------------------------------------|------------|--------------|
| 4.4.3b | SSIWPA-SC member agencies comment on | All Member | 2018-04-20 |

| | | | |
|---------|--|---|--|
| | purpose, deliverables and format of Strategic Planning Day | Representatives | |
| 4.1 | Chair Grams will contact Derek Masselink about a possible SSIWPA substitute for the year that Member Masselink is planning to be absent from Min. of Ag. | Chair Grams | 2018-03-27 |
| 4.9.3 | Planner Starke to schedule the Strategic Planning Meeting and that an outside facilitator be considered. | Planner Starke | 2018-03-27 |
| 4.3.1 | CRD-Beddis representative will find out whether water conservation levels or public alert protocols are part of CRD ratepayer or public alerting process, and report back to SSIWPA. | Member Hewitt | 2018-03-27 |
| 4.4.1 | Coordinator will send draft newsletter piece to NSSWD for input first, then publish in Watermark | Coordinator | 2018-03-27 |
| 4.9.1.2 | William Shulba will re-work the groundwater project descriptions for Annual Report and Project Brochure and send to Coordinator for addition with other changes discussed. | William Shulba | 2018-03-27 |
| 4.9.3 | William Shulba will send a new graphic for use to replace groundwater graphic for brochure inside at top. | William Shulba | 2018-03-27 |
| 4.7.2 | Chair Grams to alert Financial Planning Committee at Islands Trust to the SSIWPA budget surpluses | Chair Grams | 2018-02-23 |
| 3.2a | suggest re-wording of the IWM Program Primary Goal and Primary Objective, email it to Steering Committee and Coordinator, and that Coordinator would distill the suggested revisions into a proposal for revision and circulate that to steering committee in advance of the next regular meeting. | All Member Representatives and Staff Advisors | 2018-02-02 <i>3 complete, superseded by request from Planner Starke for Strategic Planning prep (see email April 11 2018)</i> |
| 4.8.2 | Send informal invitation to ENV Groundwater Science Division | Coordinator | 2018-02-02 |
| 4.9.3 | Draft Communications Protocol for consideration at a (special) meeting. [timeline was changed to regular meeting, not special meeting.] | Coordinator | 2018-02-23 |
| 4.8.2 | Prepare a draft resolution to invite Water Districts and Commissions who are not already represented at Steering Committee. To be presented at Meeting where Outreach Plan is considered. | Planner Starke | 2018-02-23 |
| 4.6 | SSIWPA agreed Coordinator Cowan would add | Coordinator | 2018-02-23 |

| | | | |
|---------|--|---|-------------------|
| | “CEWG report public outreach” to the outreach plan 2018-19. | | |
| 4.6b | SSIWPA agreed to forward the draft CEWG report to each agency for comment and request agencies to provide comment at the next regular meeting. | Coordinator | 2018-02-23 |
| 4.9.1 | Prepare a press release about the changes to SSIWPA: ToR, TWG ToR, website, name and circulate to committee members for approval. Ensure coordinated communications strategy with Islands Trust who are doing their own communication on tax requisition and grant funding for SSIWPA project. | Chair Grams (release was approved 2018-03-27) | 2018-02-23 |
| 4.4 | Communicate with Fiona XETXÁTTEN MacRaild, Senior Intergovernmental Policy Advisor regarding the BC Water Sustainability Act First Nations liaison | William Shulba | 2017-09 (ongoing) |
| 4.4.2 | Coordinator would discuss with Vice-Chair McIntyre the possibility of alerting the community to the issue of groundwater level and quality at Cedar Lane via press release or the newsletter. | Coordinator | 2018-03-27 |
| 4.4.3a | Islands Trust staff issue an explanatory statement to SSIWPA-SC in early April to indicate the purpose, deliverables and format of the proposed Strategic Planning Day. | Trust Staff | 2018-03-27 |
| 4.8.2 | SSIWPA agreed Chair Grams would circulate a memo regarding Steering Committee membership for discussion at the next meeting. | Chair Grams | 2018-03-27 |
| 2 | delay budget agenda item 3.5 to regular meeting | Coordinator | 2018-02-02 |
| 3.2b | prepare a scope of work for a facilitated strategic planning day for the SSIWPA to work with a watershed management planning expert, and that staff would circulate the draft scope of work with steering committee for comments as soon as it can be prepared, in advance of the next meeting agenda release date (February 9, 2018). | Planner Starke | 2018-02-02 |
| 4.9.2 | Change ssiwatersheds.ca to ssiwpa.org | Chair Grams | 2018-02-02 |
| 4.7 | Send adopted TWG ToR to the TWG membership. | Coordinator | 2018-01-19 |
| 4.8.1a | Convene Special Meeting of SC to finalize workplan and outreach and events next fiscal. | Coordinator | 2018-01-19 |
| 4.11.2a | Design web page add best practices and other resource links agreed by steering committee | Coordinator | 2017-05 |

**SALT SPRING ISLAND
WATERSHED PROTECTION ALLIANCE
FOR REVENUE/EXPENDITURES RECOGNIZED
AS OF MARCH 31/18**

| REVENUE | YTD ACTUALS | BUDGET | BALANCE REMAINING | % OF BUDGET RECEIVED/SPENT YTD |
|--|---------------------|----------------------|---------------------|--------------------------------|
| SSI LTC Special Property Tax Requisition | \$ 98,500.00 | 98,500.00 | 0.00 | 100% |
| Unspent funds from 2016/17 Special Property Tax Requisition | | 7,105.99 | 7,105.99 | 0% |
| Province of BC grant- Integrated Water Management Program - Funds received but unspent to March 31/18 | | 15,000.00 | 15,000.00 | 0% |
| REFBC grant - Integrated Water Management Program - Well Monitoring - % of funds received but unspent to March 31/18 | | 9,180.00 | 9,180.00 | 0% |
| Total Revenue | \$ 98,500.00 | \$ 129,785.99 | \$ 31,285.99 | 76% |
| EXPENSES | | | | |
| SSIWPA Coordination | 84,965.77 | 85,000.00 | 34.23 | 100% |
| Meeting cost (3 committees, minute taking, room rental) | 2,743.04 | 5,500.00 | 2,756.96 | 50% |
| Community Events and Communications | 3,814.99 | 8,000.00 | 4,185.01 | 48% |
| Unspent funds from 2016/17 Special Property Tax Requisition - no related expenses | 0.00 | 7,105.99 | 7,105.99 | 0% |
| Integrated Water Management Program (Province of BC Grant) - no related expenses | 0.00 | 15,000.00 | 15,000.00 | 0% |
| Integrated Water Management Program (Well Monitoring, REFBC Grant) - no related expenses | 0.00 | 9,180.00 | 9,180.00 | 0% |
| Total Expenses | \$ 91,523.80 | \$ 129,785.99 | \$ 38,262.19 | 71% |

Total Surplus (Deficit) to date \$ 6,976.20 \$ -

Percentage of property tax requisition spent to March 31/18 - 93%

The background of the page is a close-up photograph of water splashing, with many small droplets and ripples. A large, semi-transparent blue wavy line, similar to the one in the logo, is overlaid on the water. At the bottom of the page, there is a dark blue horizontal band containing the title text.

**SSIWPA
Annual Report - 2017**

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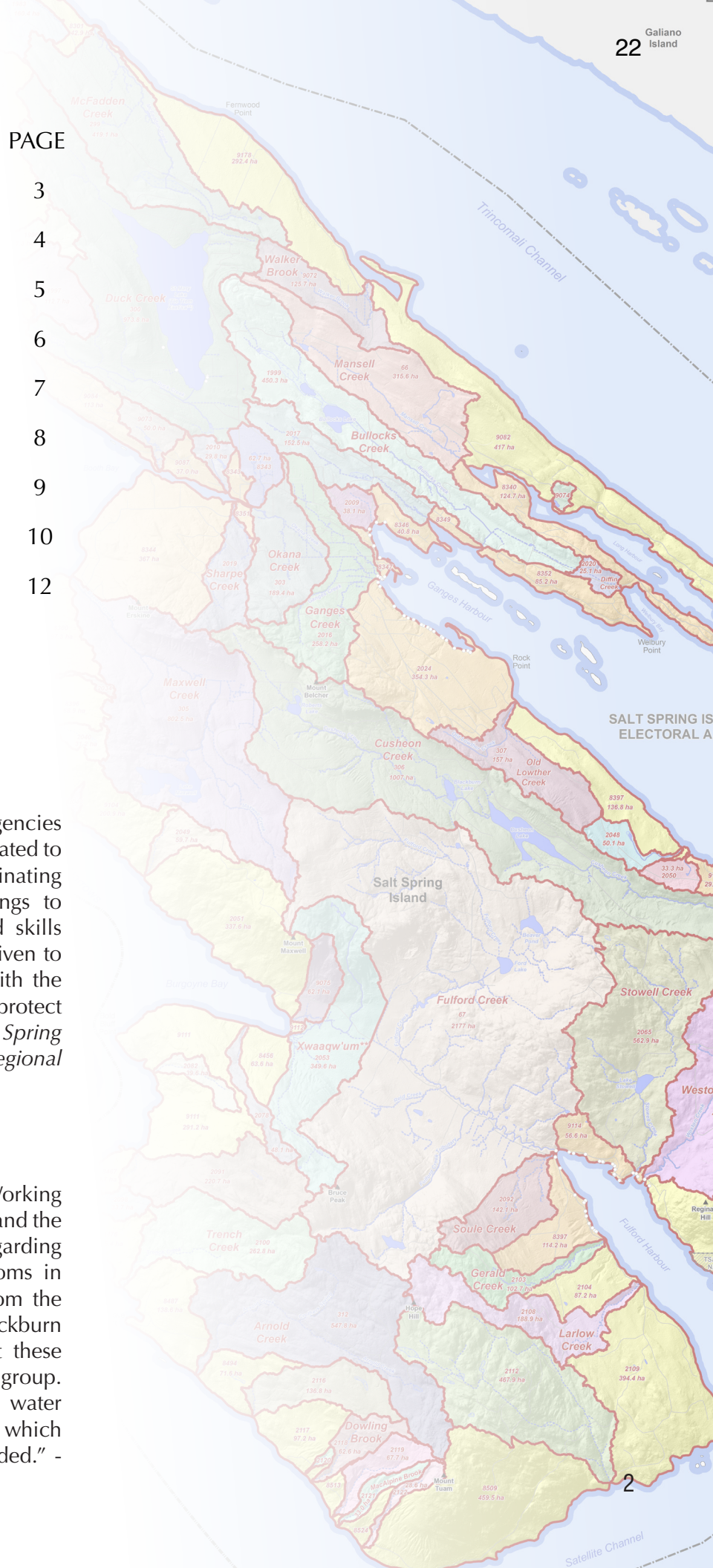
9

10

12

“By including all the key ministries and agencies who have a key role on Salt Spring Island related to watershed protection; SSIWPA, as the coordinating body, has demonstrated the value it brings to our community. With the knowledge and skills gained, I would like to see consideration given to the formation of a formalized authority with the funding and the powers necessary to help protect and manage our precious watersheds.” - *Salt Spring Island Electoral Area Director, Capital Regional District*

“We are glad that the SSIWPA Technical Working Group is beginning work on Cusheon Lake and the watershed, we have particular concerns regarding raw water quality, the frequent algal blooms in the lake and potential leachate run off from the area of the Closed Landfill site and Blackburn Road transfer station and understand that these concerns will be addressed by the working group. In addition we are pleased to see that a water availability study will be undertaken, for which an automatic lake level gauge will be needed.” - *Beddis Water Service Area Commission*



MESSAGE FROM THE CHAIR

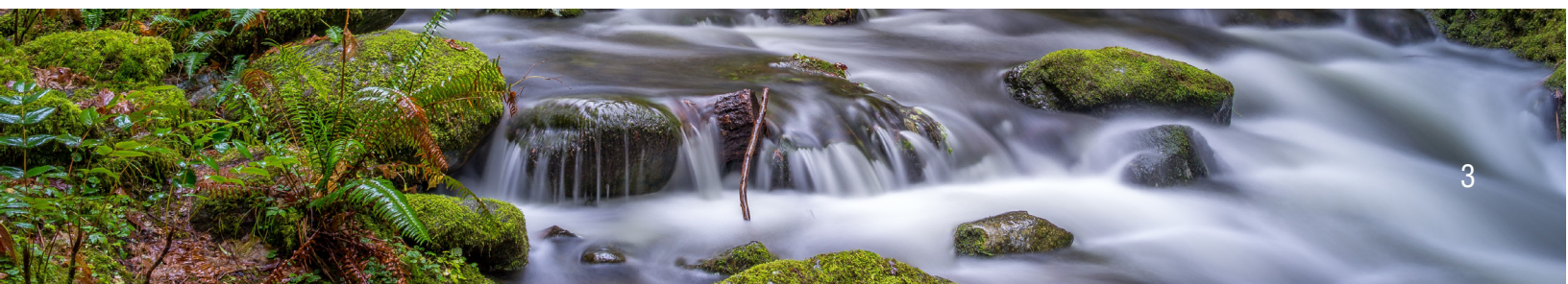
Although Salt Spring Island benefits from a healthy precipitation of over 36” per year, the dramatic distribution of delivery poses particularly challenges for harvesting our water resources to efficiency. Water is available in copious quantities in winter when our population is at its lowest and our per capita water usage declines. Conversely, in the summer when our population peaks and our water usage is boosted by outdoor activities, supplies are at their lowest.

Responsible ecological management demands that we base land use planning and infrastructure decisions using the precautionary principle. Not doing so has already led to issues with groundwater resources, such as saltwater intrusion and aquifer stress in a number of areas on Salt Spring. Once contaminated, remediation of groundwater resources can be more costly and in some cases, impossible to achieve. We could lose the benefits of that freshwater source in perpetuity. Impacts such as these make it essential that island agencies make evidence-based decisions where our surface or groundwater sources might be impacted.

SSIWPA member agencies work together to study water quality and quantity patterns across each drinking watershed and groundwater resource area on Salt Spring Island. A multi-year project - the [Integrated Freshwater Management Program](#) - was created in 2016 and launched in 2017 to ultimately result in a Water Sustainability Plan for Salt Spring Island.

The coordinated efforts of SSIWPA members and its volunteer working groups yielded many achievements in 2017, the first year of the Integrated Freshwater Management Program. Highlights included:

- the “Water Availability Analysis and Climate Change Assessment” for St. Mary Lake based on 2016-17 updated information by SSIWPA member, North Salt Spring Waterworks District;
- 80% of the work towards updated aquifer descriptions and previously un-documented groundwater budgets for the island by the provincial Ministries of Environment and Climate Change Strategy & Forests, Lands, Natural Resource Operations and Rural Development;
- the updated Agricultural Land Use Inventory and related [Agricultural Water Demand Model](#) by the Ministry of Agriculture;
- the bulk of a Water Conservation Technology Comparison Report by the Conservation and Efficiency Working Group, including [rainwater harvesting survey](#) results from Royal Roads University student partners;
- technical review of groundwater monitoring project development and a pilot soil nutrient watershed analysis study by the Technical Working Group, and project development, grant-writing and data collection efforts in many other related project areas.

ABOUT SSIWPA

SSIWPA Steering Committee consists of representatives of agencies that have responsibility for water and/or watershed management, the delivery of potable drinking water, or the assurance of safe drinking water in the SSI Local Trust Area.

A New Name

The **Salt Spring Island Watershed Protection Alliance** changed its name in December 2017. It was previously known as the Salt Spring Island Watershed Protection Authority.

Member Agencies



Islands Trust (IT)
Capital Regional District (CRD)
Ministry of Forests, Lands, Natural Resource
Operations and Rural Development (FLNR)

Ministry of Agriculture (AGRI)
North Salt Spring Waterworks District (NSSWD)
Beddis Water Service Area Commission
Highland and Fernwood Water Service Areas
Commission

HOW SSIWPA WORKS

SSIWPA provides a framework for cooperative management of freshwater resources in the Salt Spring Island Local Trust Area. SSIWPA is advised by two Working Groups.



The Technical Working Group (TWG)

Provides technical advisory, as directed by Steering Committee; it consists of members-at-large who have local multidisciplinary expertise, working together with member agency staff.



The Conservation and Efficiency Working Group (CEWG)

Provides advice to Steering Committee on the feasibility and accessibility of water conservation technologies and local applications.

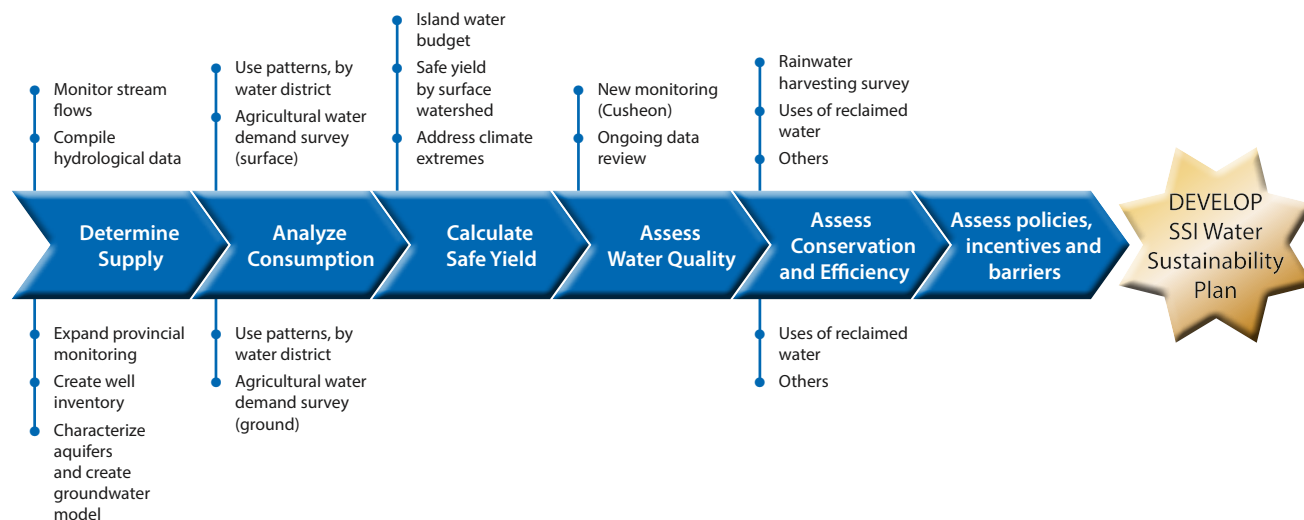
The Steering Committee invites input from multi-stakeholder Public Advisory Committees for specific projects. SSIWPA Steering Committee and Working Group meetings are open to the public for observation.

Meeting information is available in the [calendar](#) on the SSIWPA website.



Integrated Water Management Program Workplan

Surface Water Sources



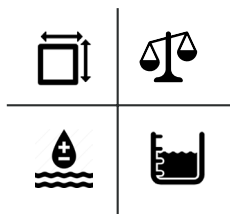
Ground Water Sources

Draft: May 2017

INTEGRATED FRESHWATER MANAGEMENT PROGRAM (IFWP)

OBJECTIVES

- A coordinated multi-year effort in watershed and water resource sustainability planning
- Member agencies conduct new and ongoing projects and monitoring
- Collaboration ranges from shared project management and funding to independent agency project results shared with SSIWPA in collegial approach.
- Primary Program Goal: To ensure a sustainable supply of freshwater for human use, and to protect against over demand and degradation of the resource and the natural systems that depend on it.



- quantify available freshwater for human use island-wide
- consider both human and ecosystem needs
- improve potable water use efficiency
- monitor raw water quality

Projects in focus for SSIWPA's IFWM program in 2018 include: Groundwater Wells Inventory Project



Prior to the release of the BC Water Sustainability Act on February 29, 2016, domestic groundwater well registration was voluntary and hundreds of drilled wells on Salt Spring are not registered. Islands Trust is coordinating with Ministry of Environment and Ministry of Forests, Lands, Natural Resources, and Rural Development to improve the provincial wells registry.

As part of Salt Spring Island Groundwater Wells Inventory Project, Islands Trust collated over 150 professional groundwater reports from subdivision applications from the past 30 years discovering nearly 400 unregistered groundwater well records. These well records will be included in the provincial wells registry to improve the overall functionality of the registry and to inform groundwater resource management and watershed protection.

Groundwater Wells Monitoring Pilot Project



Groundwater supplies approximately half of the water needs for Salt Spring Island community and is an ecological component of our watersheds. Long-term monitoring of groundwater levels is integral for watershed protection and management of groundwater resources.

In addition to the three Provincial Groundwater Observation Network locations, the Salt Spring Island Groundwater Wells Monitoring Pilot Project will establish twelve automated groundwater monitoring locations across the island in volunteered domestic groundwater wells to measure hourly water table fluctuations and groundwater temperature changes. This year long pilot project is funded by a Real Estate Foundation of BC Freshwater Sustainability grant and SSIWPA agency contributions, and select wells may convert to long term monitoring sites.

Cusheon Lake Watershed Monitoring



To meet the program milestone of conducting a “Water Availability Analysis” for the Cusheon Lake watershed system, resources are being allocated during 2018 and early 2019 to install automated dataloggers to measure lake level, stream flow and temperature at Cusheon Lake and its main outflow. SSIWPA agency staff together with local volunteers will monitor and analyze data.

SSIWPA member agencies are also collaborating on a project to measure nutrient inputs to Cusheon Lake that may impact raw water quality, which will inform management recommendations for this watershed.

PROGRESS AND ACCOMPLISHMENTS

The following projects and areas of study were undertaken by SSIWPA member agencies and contribute to the coordinated achievement of SSIWPA's IFWM Program objectives.

MILESTONES

| | Agency Responsible | Progress as of May 2018 |
|--|--------------------|-------------------------|
| Water Availability and Climate Change Assessment | | |
| St. Mary Lake | NSSWD | May 2018 - 100% |
| Maxell Lake | NSSWD | launched |
| Cusheon Lake | CRD | launched |
| Hydrometric data collection | | |
| Maxwell Lake Watershed | NSSWD | |
| Cusheon and Fulford Creeks- permanent stations | FLNR | 20% |
| Bullock, Cusheon, Fulford, Ganges, McFadden Creeks | FLNR | 2017 data - 100% |
| Water Quality and Nutrient Monitoring | | |
| St. Mary and Maxwell Lakes | NSSWD | ongoing |
| Cusheon Lake | CRD-Beddis | ongoing |
| Cusheon Lake - enhanced nutrient monitoring | | launched |
| Soil Phosphorus Movement: proof of concept pilot study | TWG | 90% |
| Agricultural Water Demand Model | | |
| Island-wide | AGRI | 100% |
| Aquifer Mapping and Groundwater Budget Project | | |
| Island-wide | FLNR | 90% |
| Supply and Utilization Data Compilation | | |
| 11 Community wells | FLNR | 100% |
| All community lake systems | FLNR | 100% |
| Groundwater Wells Inventory and Monitoring | | |
| Inventory - island-wide, targeted | IT, FLNR | 80% |
| Groundwater level well monitoring - island-wide, targeted area pilot | IT, FLNR | 10% |
| Rainwater Harvesting Survey and Case Studies | | |
| Island-wide | Royal Roads U | 100% |
| Conservation Technologies Comparison Report | | |
| Island-wide | CEWG | 80% |

PROGRESS

Climate data suggest :

“Recent very hot summers in northern hemispheric land areas will be the norm within 20 years”

Li, C., X. Zhang, F. Zwiers, Y. Fang and A. Micha. “Recent very hot summers in northern hemispheric land areas measured by wet bulb globe temperature will be the norm within 20 years”, Earth’s Future (2017)

“Winters over the last century have gotten approximately 20% wetter than they were.”

Hodgins, D.O. “Drought analysis and implications for Salt Spring Island, B.C.” (2015)

SSIWPA Outreach:

Fall Fair
Tuesday Market
“Planner in the Park”
Earth Day

2

WORKSHOPS

**Water Sustainability Act
Groundwater Licensing
Regulations** - for non-
domestic & agricultural
users

**Well Owner Workshop
Islands Trust**
Takeaways: well
registration forms, water
quality testing kits,
government policies and
regulations, SSIWPA info.

4

Volunteer Stream Stewards

• weekly
6 measurements of
local streams

• hydrometric
and fish health
parameters

• [Data are publicly
available](#)

68

Rainwater Survey Respondents
[\(Royal Roads University report\)](#)
• case studies and local examples,
[Conservation and Efficiency Working
Group Report](#)

Rainwater Home Tour

10 host sites
visited by
approximately 300 people

10

SSIWPA
newsletters sent
to 218 readers

218

Coordinated data from 11 community
wells managers with SSIWPA projects.

FINANCIAL SUMMARY

SSIWPA's core funding of \$98,500 was provided by Saltspring Island taxpayers in the form of a special property tax requisition raised through the Islands Trust. SSIWPA also is grateful for a contribution of \$15,000 in grant funding from the Province of B.C. towards the coordination and carrying out of projects in the SSIWPA [Integrated Freshwater Management Program](#).

SSIWPA would like to acknowledge the contribution of \$9,180 from the Real Estate Foundation of BC to the Islands Trust for the 2018 project: SSI Groundwater Well Monitoring Pilot. SSIWPA member agency representatives are grateful for:

- Islands Trust Council approval of the 2017 special tax requisition for 2017
- Capital Regional District for contributing a portion of annual gas tax and stormwater program revenues to SSIWPA -coordinated projects
- The invaluable contributions by volunteer members of the Technical Working Group, the Conservation and Efficiency Working Group

**SSIWPA PROGRAM INCOME STATEMENT
FOR THE PERIOD APRIL 1, 2017 - MARCH 31, 2018**

| Revenue for SSIWPA Coordination | YTD Actuals | Budget |
|--|-------------------|-------------------|
| Islands Trust Special Property Tax 2017-18 | \$ 98,500.00 | 98,500.00 |
| Coordination Reserve | 7,106.00 | 7,106.00 |
| Matching Funds for Projects Coordinated by SSIWPA | YTD Actuals | Budget |
| Islands Trust SSI Local Trust Committee Watershed Management Fund | 18,000.00 | 18,000.00 |
| Capital Regional District | 4,000.00 | 4,000.00 |
| Ministry of Forests, Lands, Natural Resource Operations & Rural Devt. | 32,000.00 | 32,000.00 |
| Grant to SSIWPA from BC for Integrated Freshwater Mgmt. Program | 15,000.00 | 15,000.00 |
| Grant** to Islands Trust from Real Estate Foundation of BC for SSI Groundwater Wells Pilot | 6,426.00 | 6,426.00 |
| Total revenue | 181,032.00 | 183,786.00 |

| Expenses for Coordination | YTD Actuals | Budget |
|--|-------------------|-------------------|
| Contractor | \$ 84,965.77 | 85,000.00 |
| Meetings | 2,743.04 | 3,500.00 |
| Events, Communications | 3814.99 | 4,500.00 |
| Expenses for Projects Coordinated by SSIWPA | YTD Actuals | Budget |
| Septic well decommission (TWG with CRD Funds) | 3,000.00 | 3,000.00 |
| Aquifer Mapping and Groundwater Budget Analysis (FLNR) | 30,000.00 | 30,000.00 |
| Wells Inventory (Islands Trust and FLNR) | 5,500.00 | 5,500.00 |
| Groundwater Monitoring Pilot (Islands Trust and FLNR) | 15,500.00 | 18,500.00 |
| Agricultural Water Demand Model (AGRI) | 2,000.00 | 2,000.00 |
| Total expenses | 147,523.80 | 157,500.00 |
| Total surplus (deficit) to date | 33,508.20 | |

**Unspent coordination funds = \$14,082.19 \$7105.99 from 2016/17
and \$6976.20 from 2017/18**

* Estimated amounts for fourth quarter until fiscal year end cost accounting can be completed.

** \$2,754 remainder of grant funding will be awarded at conclusion of final report (Spring 2019).



“The NSSWD recognizes that water governance on Salt Spring is complex and fragmented and is pleased to support the efforts of SSIWPA to create a space for islanders to collaborate on these issues that are so critical to our community. - North Salt Spring Waterworks District”

“SSIWPA’s principal responsibility is to promote watershed protection and to enhance our ability to function as regulatory stewards of our freshwater resources and environment through successful coordination of governing agencies. - W. Shulba, P. Geo., Islands Trust Senior Freshwater Specialist and SSIWPA Steering Committee Staff Advisor”

LINKS

SSIWPA: <https://www.ssiwpa.org/>

Meeting calendar: <https://www.ssiwpa.org/meetings-and-events/>

[Integrated Freshwater Management Program](http://ow.ly/nMaN30j3FsS): <http://ow.ly/nMaN30j3FsS>

[Agricultural Water Demand Model](http://ow.ly/wz0330j3FzV): <http://ow.ly/wz0330j3FzV>

[Hydrometric Data Collection](http://ow.ly/dBeC30j3FDf): <http://ow.ly/dBeC30j3FDf>

[Rainwater Harvesting Survey and Case Studies](http://ow.ly/xnsZ30j3FH1): <http://ow.ly/xnsZ30j3FH1>

[Real Estate Foundation of B.C.](http://www.refbc.com): www.refbc.com

[Community Engagement Volunteer Stream Stewards](http://ow.ly/Um0S30j3FKg): <http://ow.ly/Um0S30j3FKg>

[Royal Roads University report](http://ow.ly/6fmA30j3FOD): <http://ow.ly/6fmA30j3FOD>

[Conservation and Efficiency Working Group report](http://ow.ly/3HSr30j3FRi): <http://ow.ly/3HSr30j3FRi>

[Hodgins quote on Community Engagement page](http://ow.ly/paBj30j3FU5): <http://ow.ly/paBj30j3FU5>

[Li et al., 2017 onlinelibrary.wiley.com/doi/10.1002/2017EF000639/epdf](http://onlinelibrary.wiley.com/doi/10.1002/2017EF000639/epdf)

[Li, C., X. Zhang, F. Zwiers, Y. Fang and A. Micha. "Recent very hot summers in northern hemispheric land areas measured by wet bulb globe temperature will be the norm within 20 years". Earth's Future \(2017\) http://ow.ly/AIzI30j3FXR](http://ow.ly/AIzI30j3FXR)

Hotter summers and wetter winters call for a new level of water intelligence. SSIWPA supports individual change in water use behaviours and the evidence-based development of civic-scale solutions to a sustainable freshwater future on Salt Spring Island.



Date: 2018-06-03

Date of Meeting: 2018-06-25

To: Salt Spring Watershed Protection Alliance Steering Committee

From: SSIWPA Coordinator

Re: Display Posters for SSIWPA Outreach Booth

RECOMMENDATION:

THAT the Salt Spring Island Watershed Protection Alliance Steering Committee agree to the proposed revisions to the 2-page SSIWPA display poster.

PURPOSE:

The purpose of this memo is for SSIWPA SC to consider possible improvements and updates to the current display booth poster dated September 2017.

See next for description of proposed changes to content.
Coordinator to present current posters visually in the meeting, with some proposed changes added.

- Coordinator will direct graphic design of both posters to better layout images and to include colour and design elements similar to Annual Report, for enhanced aesthetics.
 - Suggestions welcome.

Changes to Poster Page #1:

- title: Integrated Freshwater Management Program Workplan
- replace the logo top left with new SSIWPA logo
- add above "Objectives": A coordinated multi-year effort in watershed and water resource sustainability planning.
- change points under "Program Objectives" to match Annual Report 2017:
 - Quantify available freshwater for human use island-wide.
 - Consider both human and ecosystem needs.
 - Improve potable water use efficiency.
- remove from objectives: Monitor raw water quality. [Based on Strategic Planning results, monitoring is not SSIWPA role. SSIWPA coordinates volunteers who may monitor, it coordinates data-sharing from monitoring.]

Changes to Poster Page #2:

- replaced logo top right
- updated contact info, web address
- check that member agency logos and names in organizational diagram are correct at time of printing (have graphic designer redo this larger)
- Proposed change to the message, as follows (brackets and red is text that will be omitted, green is text to be added)
- To achieve its mission, SSIWPA co-ordinates:
 - Multi-stakeholder **planning and decision-making**;
 - Inter-agency collaborations, **resource and data-sharing**;
 - Local volunteer **monitoring, observation and review**; (**field assistance**)
 - **Integration of** technical study & analysis;
 - **Public consultation**;
 - **Implementation**, education and outreach **about SSIWPA programs and outcomes**.

GOAL

Develop and implement an **Integrated Freshwater Management Plan** for Salt Spring Island Local Trust Area that aims to ensure a sustainable supply of freshwater for human use and will protect against over-demand and degradation of the natural systems that depend on it.



Quantify freshwater available on island-scale



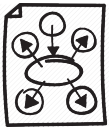
Optimize efficiency of water resource demands



Monitor quality in drinking water lakes



Review policy and incentives that may promote conservation and efficiency recommendations



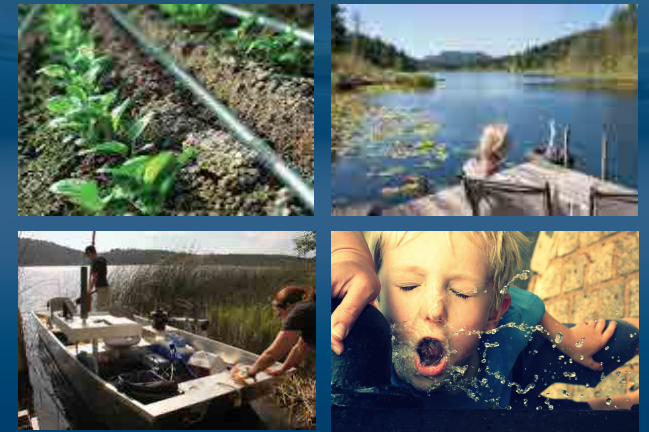
Collaboratively create and implement Integrated Freshwater Management Plan



The Integrated Watershed Management Program was initiated by SSIWPA in recognition of a concern that freshwater sources on Salt Spring Island are stressed, and are at or near the sustainable limits of their capacity.



Integrated Freshwater Management Program



SSIWPA
info@ssiwpa.org
(250) 653-4867
www.ssiwpa.org

ONGOING IFWM PROGRAM WORK IN 2018-19:

Nutrient and hydrometric monitoring in St. Mary, Maxwell, + Cusheon Lake watersheds.

Data collection for updated water availability and climate change assessment for Maxwell Lake watershed. - NSSWD

Conservation and Efficiency working group will present it's **assessment of conservation strategies** for Salt Spring Island.

SSIWPA member agency staff will integrate **Aquifer Mapping and Groundwater Budgets, and Agricultural Water Demand Model** project results.

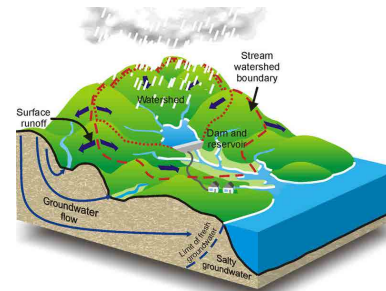
PROJECTS 2018-2019

New data will be collected and analyzed in these three focus projects:

Groundwater Wells Monitoring Pilot Project

Groundwater supplies approximately half of the water needs for the Salt Spring Island community and is an ecological component of our watersheds. Long-term monitoring of groundwater levels is integral for watershed protection and management of groundwater resources.

In addition to the three Provincial Groundwater Observation Network locations, the Salt Spring Island Groundwater Wells Monitoring Pilot Project will establish up to twelve automated groundwater monitoring locations across the island in volunteered domestic groundwater wells to measure hourly water table fluctuations and groundwater temperature changes. This year-long pilot project is funded by a Real Estate Foundation of BC Freshwater Sustainability grant and SSIWPA agency contributions. Select wells may convert to long term monitoring sites.



Groundwater Wells Inventory Project

Prior to the release of the BC Water Sustainability Act on February 29, 2016, domestic groundwater well registration was voluntary and hundreds of drilled wells on Salt Spring are not registered. Islands Trust is coordinating with Ministry of Environment and Ministry of Forests, Lands, Natural Resources, and Rural Development to improve the provincial wells registry.

As part of Salt Spring Island Groundwater Wells Inventory Project, Islands Trust collated over 150 professional groundwater reports from subdivision applications from the past 30 years, discovering nearly 400 unregistered groundwater well records. These well records will be included in the provincial wells registry to improve the overall functionality of the registry and to inform groundwater resource management and watershed protection.

Cusheon Lake Monitoring project

Lake level and outflow to Cusheon Creek will be monitored continuously in 2018-19 fiscal year to provide data for water availability analysis.

Agencies are collaborating to develop an expanded nutrient monitoring program in Cusheon Lake.



Correspondence From: Kevin Chipperfield
2018-05-02
via email to SSIWPA Coordinator

Hi Shannon,

Yes I would like you to forward my resignation to ssiwpa. Thanks.

The [soil phosphorus movement] report will be finalized soon as I can get to it.

Regards,
Kevin

From Klaus Rathfelder
 cc: Sylvia Barroso, Pat Lapcevic

May 3, 2018

Hi Shannon,

Thank you for coordinating this review and thank you to SSIWPA members for their time and efforts to read and provide feedback on the report.

I will forward these comments to Golder for consideration in preparing the final report. In addition to SSIWPA, there has been extensive review by hydrogeologists from the Ministry of Environment, the Ministry of FLNR, and Islands Trust. This has produced a comprehensive and large list of comments for Golder to consider. Many of the comments and suggestions from SSIWPA were echoed by other reviewers. Collectively the comments and suggestions should greatly help to produce an improved final report.

I will you keep updated on the progress of the final report.

Klaus

From: Shannon Cowan [mailto:ssiwpacoord@gmail.com]

Sent: Thursday, May 3, 2018 10:29 AM

To: Lapcevic, Pat FLNR:EX; Rathfelder, Klaus ENV:EX; Barroso, Sylvia L FLNR:EX

Cc: Dale Green; Doreen Hewitt; George Grams; Starke, Justine ISLT:IN; Lorrie Hunt; Meghan McKee; Michael McAllister; Robert Steinbach; Ron Stepaniuk; Wayne McIntyre; William Shulba; michael mcallister

Subject: Technical Working Group Review of Draft Monthly Groundwater Budget Analysis for Aquifers on SSI

Hello Klaus, Pat and Sylvia,

The SSIWPA Steering Committee has agreed to forward the attached review by its Technical Working Group for inclusion with the provincial review of the draft subject report. (in camera)

Thank you for considering input by SSIWPA Technical Working Group at this stage of the work by the consultants to determine monthly groundwater budgets for SSI aquifer-scale regions given the scope of the project and state of knowledge available.

Sincerely,

Shannon for SSIWPA

--

Shannon Cowan, Ph.D.
Coordinator,
Salt Spring Island Watershed Protection Alliance
<http://www.ssiwpa.org>

Every Drop Counts...

250-653-4867

Please note name was changed from Salt Spring Island Watershed Protection Authority (2013-2017)