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Salt Spring Island Watershed Protection Alliance
Strategic Plan Meeting, June 12, 2018-Final Report

By Mike Wei, P. Eng.



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Cover photograph: Looking north from Salt Spring Island.

Acknowledgements: I thank my facilitation team-mates-Justine Starke, William Shulba and Shannon Cowan-for planning and delivering the workshop with me and for providing invaluable input to the final report. I also thank the attendees who gave of their day to contribute to the workshop. Finally, thanks to John Millson for providing a version of Figure 2.

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1 Context and Objectives for workshop

A strategic planning workshop was held on the Salt Spring Island (Island) on June 12, 2018, involving members of the Salt Spring Island Watershed Protection Alliance (SSIWPA) steering committee and supporting committees (Technical Working Group (TWG) and Conservation and Efficiency Working Group (C&EWG)), as well as interested members of the public. A goal of the workshop was to introduce a practical structure and evaluation process to help SSIWPA develop its work plan. At the workshop, attendees were asked to identify main problems related to the Island's water resource. Attendees also formed questions about the problems. Using a problem oriented approach allows SSIWPA to choose what it needs to focus on as priorities and begin using the problems and questions to identify and evaluate project-level tasks. Another goal of the workshop was to assess the problems identified by the attendees to develop objectives for SSIWPA steering committee to consider. The workshop agenda and PowerPoint slides can be found in Appendices A and B, respectively.

This report presents the attendees' problems and questions, a 2-step method for prioritizing project tasks for SSIWPA coordination, draft objectives drawn from those problems and questions, and recommendations for next steps for the SSIWPA steering committee's consideration.

2 Workshop results

2.1 Problems statements and related questions

Attendees were asked to identify problems for three main themes:

- water supply and conservation,
- watershed protection and
- groundwater

and form statements about them. To avoid unnecessary local details, attendees were further asked to focus on problems of a watershed or larger scale. The problem statements and related questions are found in Appendix C. Notes of the plenary, and discussion of next steps are available from Islands Trust.

All of the problem statements highlighted gaps (e.g., gaps in data, knowledge, tools) that need to be addressed in order to preserve and protect the Island's limited water resource. The broad range of potential water supplies (i.e., surface water, groundwater, rainwater, hauled water, reclaimed water) and water uses (e.g., drinking water, environmental flows), plus nature of the questions suggest addressing these problems will require the coordinated efforts of multiple agencies (SSIWPA's role).

Addressing a problem will also require considering the problem's specific context, such as where is it occurring, and which sector is involved. This context informs specific tasks.

In reviewing the problem about "You can't manage what you don't measure.", one additional question to consider is regarding intellectual and privacy aspects of data being collected and how they impact access and use of the dataset.

2.2 A 2-step method to assess work plan tasks

One of the issues the facilitation team wanted to address was to apply a screening tool to help SSIWPA focus on those project tasks that best suit their coordination role. The facilitation team presented a 2-step method at the workshop and used three example tasks to illustrate how the method could be applied. The method proposes to first assess a task if it was SMART (Specific, Measurable, Achievable, Relevant, and Time-bound). Applying SMART helps clarify the task and provides understanding of the effort involved. The task is then assessed from three perspectives or "filters":

- 1) does the task require the involvement of multiple parties or agencies?
- 2) does the task result in benefits to multiple parties or agencies? And
- 3) is the task at an appropriate scale?

The 2-step method was applied to the following tasks in the draft 2018 work plan: 1) reclaimed water literature review, 2) hydrometric data collection at St. Mary's Lake; and 3) groundwater wells monitoring pilot.

The group's evaluation of each example task is summarized in the following sub-sections.

2.2.1 Reclaimed water literature review:

- The task could be more specific.
- The task is measureable, achievable and time-bound.
- The relevancy of the task would be better assessed if the task was more specifically described.
- The findings could have impacts on multiple agencies with jurisdiction over water use.
- The application of the results is not limited to Salt Spring Island, but to other areas where there is an interest or desire to use reclaimed water to augment the water supply.
- There was acknowledgement that this is a task that SSIWPA should focus its coordination efforts on because of the strategic nature and general applicability of results of this work.

2.2.2 Hydrometric data collection at St. Mary's Lake:

- The tasks are SMART.
- However, the tasks do not require the involvement of multiple parties or agencies and is focussed on a single watershed.
- These tasks do not require SSIWPA's continued coordination.
- The attendees realized that the hydrometric data collected by one agency may still be useful to others and perhaps the task would be better framed as a task for common hydrometric data standards and data access.

2.2.3 Groundwater wells monitoring pilot:

- Some of the tasks in this project are SMART but others (i.e., knowledge transfer) is not specific, measureable nor time-bound.
- There was acknowledgement that this project requires multiple agency involvement, results have benefits to multiple agencies and is applicable island-wide, and is a project that SSIWPA should focus its coordination efforts on.

The use of SMART and the filters seemed easy to apply and the 2-step method was well received by attendees, Attendees could also see how the three example tasks connect to one of the problem statements and related questions they had identified, earlier in the workshop.

Other considerations for filters suggested by attendees were:

- The sequencing of tasks;
- Implications if the task is not done; and
- Does the task move SSIWPA towards a Water Sustainability Plan under the Province's *Water Sustainability Act*?

All three of these suggestions can be used to further evaluate a task after it has been confirmed as a SSIWPA priority for coordination but are not primary to the initial filtering process.

One aspect that was not part of the workshop but was identified by an attendee was once a task has successfully under-gone the 2-step method, how would its priority for implementation be determined. This will be further discussed in section 4.1.

3 Proposed objectives for steering committee consideration

The problem statements and questions are useful in suggesting objectives for SSIWPA because they can also reflect desired outcomes. From the problem statements and questions, the five objectives are proposed for SSIWPA steering committee consideration. To be clear, SSIWPA's role would be to provide coordination between agencies in achieving these objectives:

- Objective 1: Develop and implement strategies to maximize conservation and efficient use of the Island's limited water resource.
- Objective 2: Quantify the renewable water available and how anthropogenic changes will impact the quantity, quality and functioning of the Island's watersheds and water resource.
- Objective 3: Develop tools to preserve the Island's limited water resources and to protect watershed hydrological function.
- Objective 4: Communicate to partner agencies and the public the state of the Island's watersheds and water resource, and water use.
- Objective 5: Provide access to watershed and water resource data and information.

The first three objectives above are similar to the goals of the IFWM program. The last two objectives relate to reporting and access and sharing of data and information. Figure 1 shows that the problems identified by the attendees and which proposed objectives they affect; while this is strictly the interpretation of the writer, they highlight that each proposed objective is affected by more than one problem.

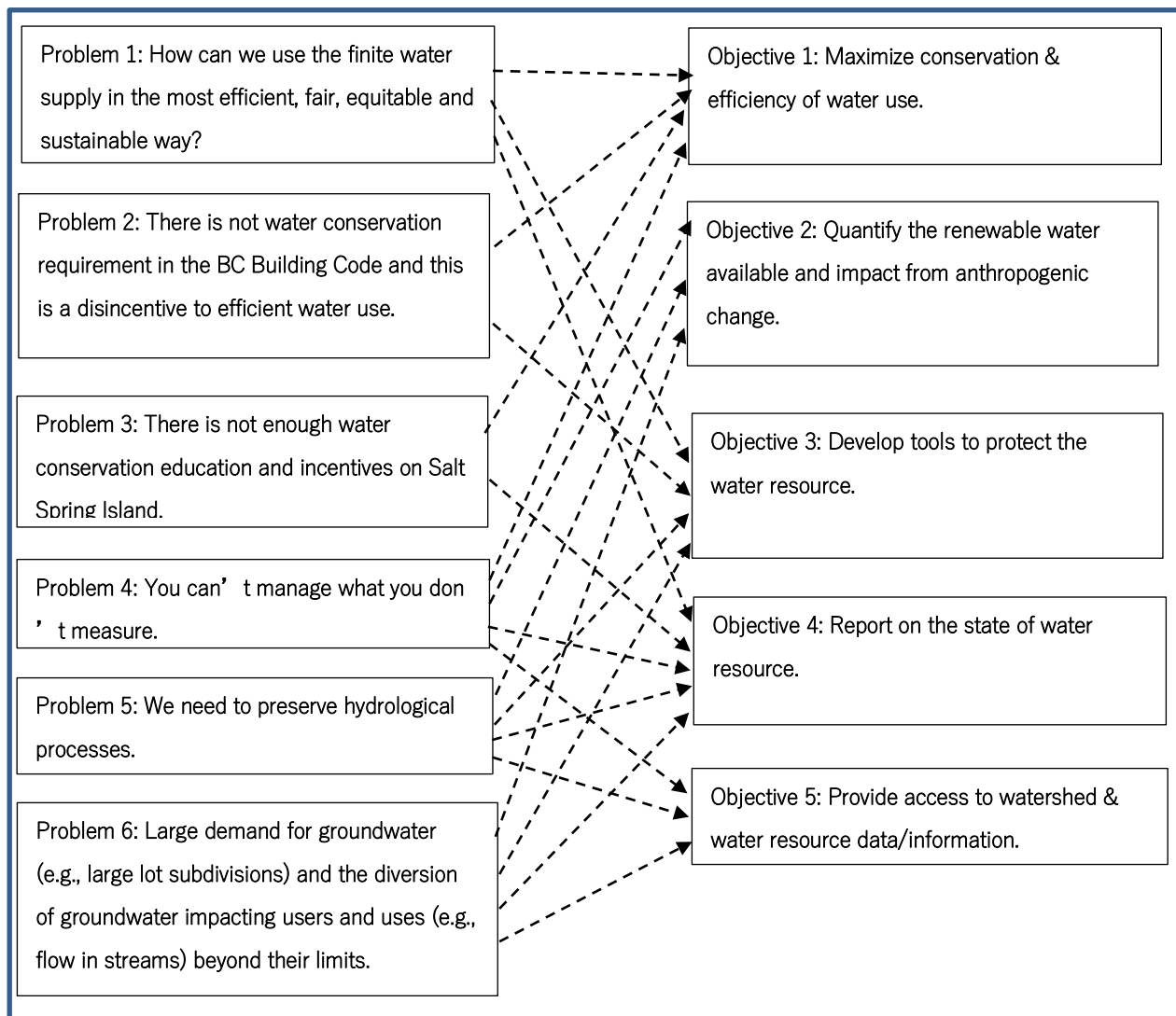


Figure 1. Identified problems (left) and proposed SSIWPA objectives (paraphrased on right); arrows show which problems affect which proposed objective.

4 Next steps

As a next step, Islands Trust staff will take this report, including the proposed objectives to Steering Committee for consideration.

SSIWPA should apply the 2-step method (SMART and the filters) to the existing tasks in the draft 2018 work plan to assess which tasks requires SSIWPA's attention for coordination. The facilitation team presented the following options for this undertaking for attendees' comment:

1. Assign to member agency staff;
2. Create a subcommittee from participants at the strategic planning day;
3. Assign it to TWG and C&EWG working groups;
4. Assign it to Islands Trust staff and the SSIWPA coordinator;
5. Arrange a special meeting of the Steering Committee; and
6. Other suggestions

Attendees overwhelmingly preferred a subcommittee be formed from among those attending to undertake this work (option 2).

4.1 Prioritizing tasks

One thing that was raised at the workshop was how SSIWPA would prioritize tasks for implementation. One attendee suggested evaluating a task based on its expected impact and its do-ability. One way is to subjectively categorize the expected impact and do-ability (see Figure 2).

Low.....Impact.....High	High impact & easily do-able (rare)	High impact & moderate do-ability	High impact but hard to do
	Moderate impact & easily do-able	Moderate impact & do-ability	Moderate impact & hard to do
	Low impact but easily do-able	Low impact & moderate do-ability	Low impact & hard to do
	Easy.....Do-able.....Hard		

Figure 2. Watershed & water resource priority chart.

Tasks that are very do-able and have great impact (shaded light green in Figure 2) are likely rare. A task that has little impact or is very difficult to do (shaded light red in Figure 2) is likely not worth doing. Most tasks worth considering fall somewhere in the remaining seven sub-categories. An example of a low impact but easily do-able task may be the reclaimed water literature review and an example of a high impact but hard to do task may be a Water Sustainability Plan.

For any task, SSIWPA may be in a position through its coordination and advocacy role to increase the task's do-ability or expected impact (SSIWPA essentially helps move the proposed task to the left and up the chart). That is one of the outcomes as a result of SSIWPA's role.

5 Recommendations

The following are recommendations for SSIWPA consideration:

- Consider the draft objectives for adoption;
- Strike a subcommittee to:
 - re-organize work plan tasks according to objectives (if adopted);
 - review the existing tasks to critically assess what specific problem(s) the tasks are designed to solve; and
 - apply the 2-step method to each task in the work plan.
- For the tasks that SSIWPA will focus its coordination efforts on, a subsequent undertaking is for SSIWPA members with subject matter knowledge to use the watershed and water resources task priority chart to further help select which tasks are a priority to implement first.
- Consider developing multi-year work plans to address problems over the medium (2-3 years) and longer term (5 years).
- Include in the work plan annual reporting of SSIWPA's progress.

6 Appendices

Appendix A – Workshop agenda

Time	Description	Person facilitating	Purpose
9:30-10 am	1. Coffee/tea		
10-10:05 am	2. Welcome	George Grams	
10:05-10:30 am	3. SSIWPA: Purpose & Terms of Reference; Need for the workshop; Review workshop objectives and agenda	Justine Starke/Mike Wei	Provide context to the workshop-SSIWPA's mandate; need to link mandate to annual activities and help focus SSIWPA's coordination role. Review agenda for the workshop.
10:30-11:00 am	4. <i>Water Sustainability Act (WSA)</i> context for SSIWPA work planning	Mike Wei	Provide WSA context to SSIWPA' work.
11-11:45 am	5. Lieutenant Governor of BC's visit	George Grams	
11:45-12:15 pm	6. Identify problems, threats, and challenges related to water systems, conservation and efficiency, watershed protection and groundwater	William Shulba	Allow attendees to break out and identify the major problems related to the water resource and water use, focussing on watershed or larger scale.
12:15-1 pm	7. Lunch		
1-1:40 pm	8. Plenary of problem	Mike Wei	Attendees report back on their problem statement(s).

	identification		
1:40-2:30 pm	9. Examples: Linking work plan tasks to problem statements & applying proposed criteria to prioritize focus	Mike Wei	Present criteria for focussing SSIWPA's work. Take 2-3 existing tasks, link them to problem statements and assess their priority for SSIWPA focus.
2:30-2:50 pm	10. Discussion of next steps	Shannon Cowan	Identify the next steps for SSIWPA to develop their annual and longer term work plans.
2:50-3 pm	11. Outstanding questions, close and evaluation	George Grams	Obtain feedback from attendees on the workshop.

Appendix B – Workshop Powerpoint slides

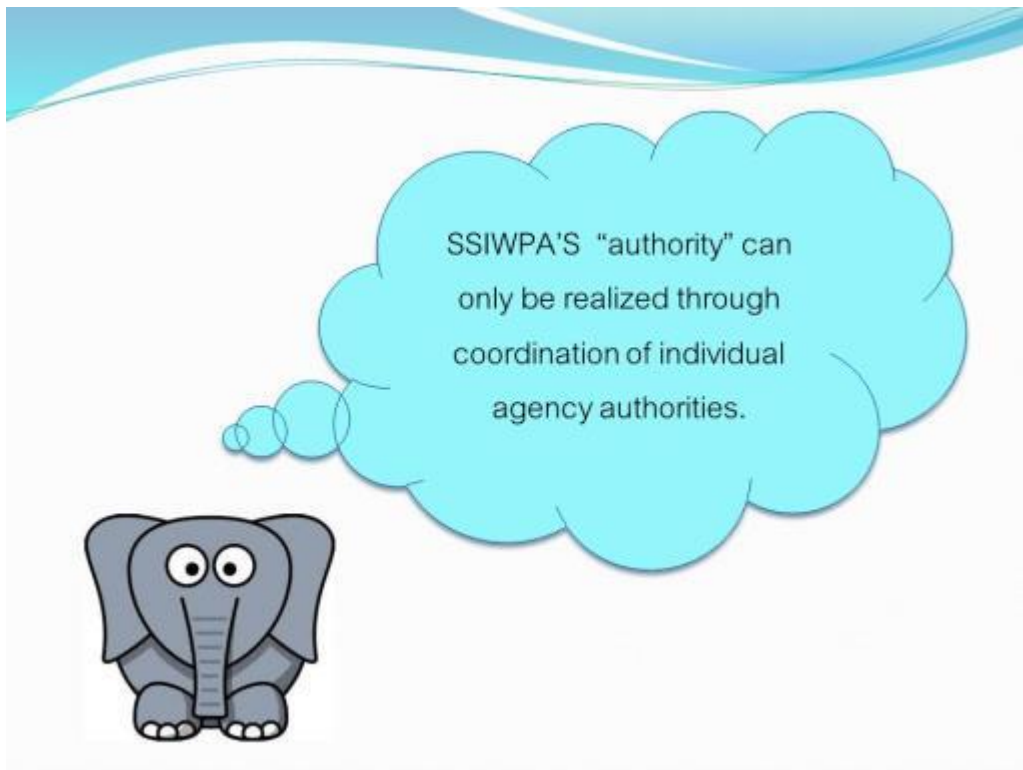


SSIWPA Purpose

The purpose of the Salt Spring Island Watershed Protection Alliance is:

- to provide a framework for freshwater resources in the Salt Spring Island Local Trust Area to be managed in a manner that integrates and considers both human and ecosystem needs through **integrated planning**, policy development and recommendations for implementation by member agencies and organizations;
- to advise on policies of regional, local and provincial government organizations that are related to freshwater resources;
- to coordinate the implementation of those policies.

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Current Goals of the Integrated Freshwater Management Program:

- Quantify the renewable volume of freshwater available for human use;
- Measure and optimize the efficiency of potable water resource uses/demand;
- Where appropriate, adjust bylaws and regulations to limit further densification in areas where water quantity sensitivities exist to sustainable levels.

Objectives

1. Identify main problems, threats, challenges related to water.
2. Identify questions about problems to help with setting goals.
3. Begin process of using problems and questions to identify project-level tasks.

IWM Obj.	IWM Task	Workplan Task	Watershed/District	Agency/Committee	Working Groups	Consultants	Timeline	Funding	Deliverable	Notes
1A2	Quantity renewable resource - supply									Notes
1	3.1	1a - Sustainable yield analysis	SML	FLNRO, LTC	TWG		Mar-17		est. yield report	Run sustainable yield models, compare consumption (obj 2) with renewable supply (obj 1) by watershed; assess uncertainty.
1	3.1	1b - Sustainable yield analysis	MAX	FLNRO, LTC	TWG		Summer 2017 - 2018		est. yield report	Revised sustainable yield model. Data from KWL, hydrology of MAX will be necessary to begin.
1	3.1.1.3	2 - Climate impacts assessment for SML sustainable yield report	SML	FLNRO, LTC	TWG		2017 - 2018		climate impact report	
Surface - supply quantity										
1	3.1.1.1	3.a(i) supply source hydrology	SML	FLNRO, LTC	TWG	KWL	2017			NDSWD to contract Ken-Wood Lestel
1	3.1.1.1	3.a(ii) supply source hydrology	MAX	FLNRO, LTC	TWG	KWL	2018			NDSWD to contract Ken-Wood Lestel
1	3.1.1.5	3.b(i) levels, flows (data compilation)	SML, MAX	FLNRO, LTC	TWG	share with Golder	2017		hydrology, meteor data files	have data at TWG & NDSWD
1	3.1.1.5	3.b(ii) levels, flows, meteorology (new data)	CLW	FLNRO, LTC	TWG	share with Golder	2017 - 2018	grant	hydrology, meteor data files	Fill data gaps for CLW, TWG design and methods/analysis. Data collect by local contractor (environmental sciences); funding for equipment and data contract. Share with Golder for Pt. 2. Outflow only May-Jul. WY as well?
Groundwater - supply quantity										
1	3.1.1.2	5.a) wells inventory (active, inactive)	Island	FLNRO, LTC	TWG		2017, part complete		GIS data file	A map product is already complete for Wells Database sites by FLNRO. TWG to undertake community outreach to identify, map (possibly register) other active wells not in registry, and inactive wells.
1	3.1.1.2	5.b) groundwater monitoring program	Island	FLNRO, LTC	TWG	?	2017 - ongoing	grant	data files, reports	Identify (possibly) down hole monitoring at inactive wells, if non-geometric active wells are included to measure stress then incentive, provide synthe inspections for well head protection, cross-reference and correlate to well records in the WELLS Database, student or contractor complete work, FLNRO/NDC support for training.
1	3.1.1.2	5.c) compile existing supply data, and literature review	GIW Comm. Systems	FLNRO, LTC	COORD. TWG to review		2017		data files, reports	Data compilation: Analysis of supply volumes and characteristics of source areas, by gov district. Parameters (100 groundwater table in wells, etc.); Cedar Ln, Cedars of Tuam, Ragland NE, Maracabo, Scott Pt, Swan Pt, High NE, Mt Bekker, Frisone, Moorhead Meadows.
1	3.1	7.a) aquifer yield: geospatial analysis, literature review	Island	FLNRO (SNW)	TWG to review	Golder Pt 1	Spring 2017		aquifer intervention model	Conceptual geological model and groundwater model by aquifer units from usage data and supply data for aquifers, uncertainty, sensitivity analysis, if areas of risk.

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Outline

1. Access to water.
2. Area-based regulations.
3. Water Objectives.
4. Water Sustainability Plans.
5. Operational water allocation plans.

Access to water

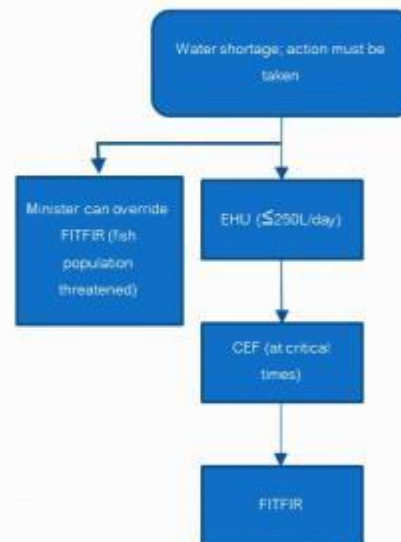
- Priority of access to water based on date of precedence (FITFIR).
- Date of precedence of different sources can be considered together if sources are hydraulically connected.
- Environmental flow needs considered in allocation decisions for new use.



FITFIR modified

When there is not enough water for all:

- Essential household use (250 L/day) has highest priority.
- Critical environmental flow (declared by the Minister or cabinet) is next in priority.
- Then FITFIR applies.
- The minister can order taking action on any user despite FITFIR if survival of a fish population is threatened.



Area-based regulations

Area-based regulation:

- Restricting access to water
- Licensing domestic groundwater use
- Restricting well drilling activities
- Designating sensitive streams



Water Sustainability Plans

- Minister can order development of a plan (where, who, when, what, and how).
- Test: conflicts over water use or risks to water quality or aquatic ecosystem health.



- Plan can effect statutory decisions related to development, use of water, land or other resources, works, and place restrictions on groundwater activities (e.g., drilling).
- If the plan does not contain legislative or statutory recommendations, the minister can accept the plan, otherwise cabinet accepts.

Water Objectives

Set objectives for sustaining water quantity, quality and aquatic ecosystems.

- May require an objective to be considered by a decision maker and impose requirements on proponents.



- A regulation may also require a regional district, municipality and local trust committee to consider an objective in a regional growth strategy or official community plan.

Water Sustainability Plans

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Water Sustainability Plans (cont.)



- The WSA spells out the process for Water Sustainability Plans.
- Plan development and implementation is formal and requires effort; commensurate scale of problem or risk.
- Plan may be desirable to express commitment, raise profile of activities, affect statutory decision-making processes.
- Recognition of leadership, interest, and water issues in the Trust Area.

Water allocation plans

- Operational plans developed by government in the 1990's to inform water authorization.
- Plans were watershed- or island-based; did not emphasize groundwater.
- <https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/water-planning-strategies/water-allocation-plans>.



Water allocation plan – Salt Spring Island

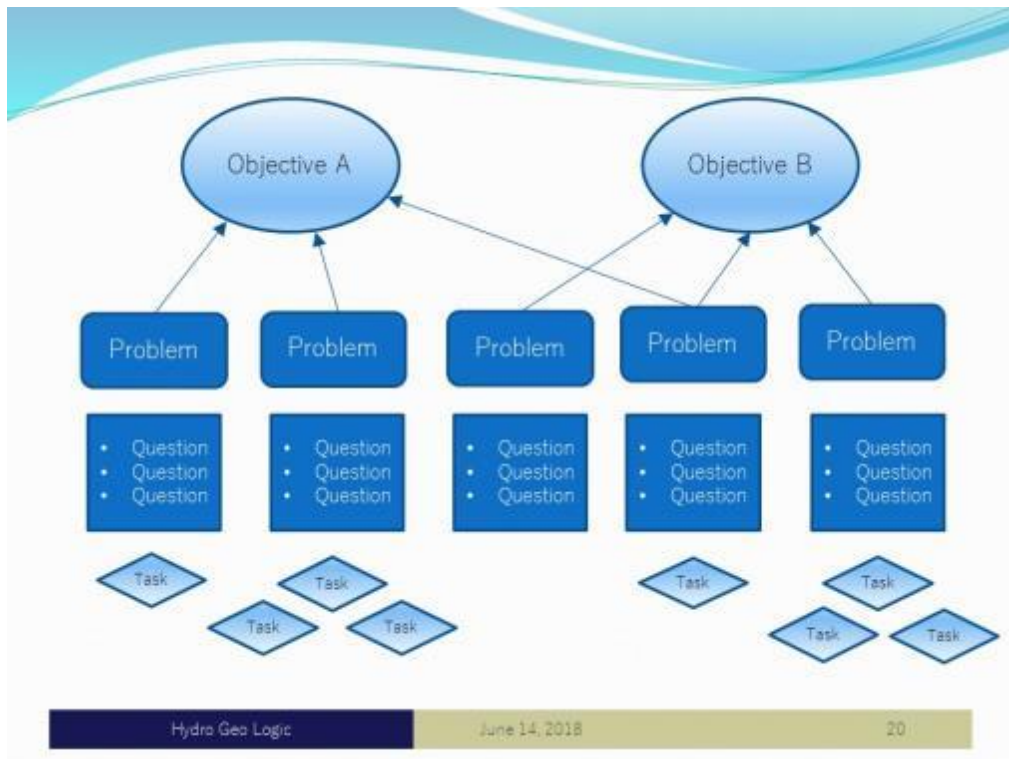
- Developed in 1993 for entire island and surrounding islets.
- Plan set goals of not over-allocating streams, ensuring water is available for the period required without impacting EFNs, water quality, maintaining aesthetic and cultural values.
- Plan's purpose:
 - Signal government's position regarding allocation;
 - Provide bigger picture context beyond individual studies;
 - Promote consistency in decision-making;
 - Reduce delays.



- Did not consider groundwater allocation, future climate change and has not been updated since.

Identify problems, threats, or challenges

by William Shulba, P. Geo and Mike Wei, P. Eng.



Identify problems, threats, or challenges

(Hard) working lunch: identify problems, threats or challenges to water supply & conservation, watershed protection, and groundwater.

- Identify top 1 or 2 problems/threats/challenges.
 - Describe the problem/threat/challenge as a specific problem statement or question.
 - Provide some details (location and extent, an activity, a gap, a conflict, why is it a problem, affect on water resource, who does it directly affect).
 - Focus on a watershed scale or larger.
- Problem statement will be re-phrased into objectives for SSIWPA Steering Committee consideration after the workshop.

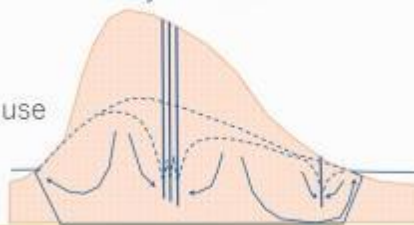
Identify problems, threats, or challenges (cont.)

Be specific about the problem.

- Problem statement: “What is the impact of large scale subdivision in the upland areas on domestic groundwater users along the shores below?”
- More specific problem statement: “If a large scale subdivision is permitted in the upland area, will the diversion of water from the subdivision wells rob groundwater that would have flowed to the shores below by such quantity that the supply of existing domestic well owners below (with senior rights) is negatively affected?”

Ask additional questions related to the problem

- Does the groundwater in the upland flow to the shores below?
- How much?
- Who’s using groundwater below?
- How will gradients and flow areas change if a large subdivision diverts groundwater in the upland area?
- How much will change such that well owners below will be negatively impacted?
- How can developer help answer these questions?
- How certain are the answers? How certain do they need to be?
- If the answer is not clear-cut, what should we do?
- If the subdivision wells do impact the use of the wells below, what can be done after the fact?



Write-up problem statement and related questions

Provide statement to Shannon Cowan.

Table (circle): 1. Water supply and conservation 2. Watershed protection 3. Groundwater

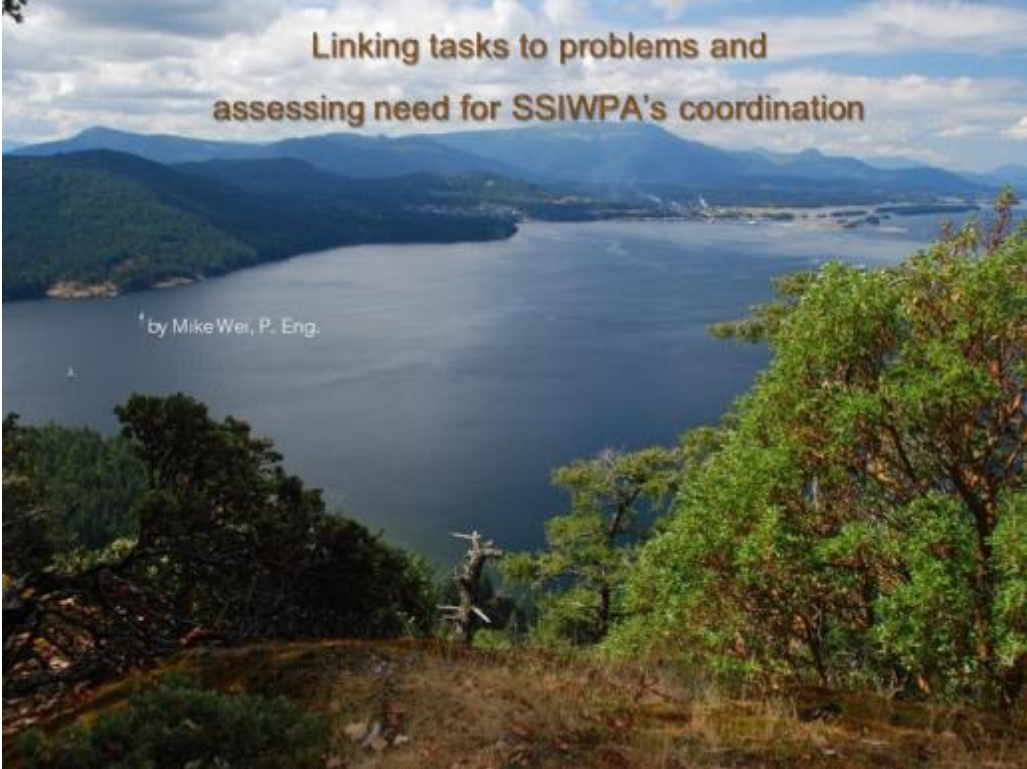
Specific problem statement:

Questions related to the problem statement:

1	
2	
3	
4	
5	
6	
7	

Plenary

- Each table report back on your problem statement(s).
- Provide brief background on problem and why it is important.
- Present your related questions.
- 10 minutes max.
- Questions?



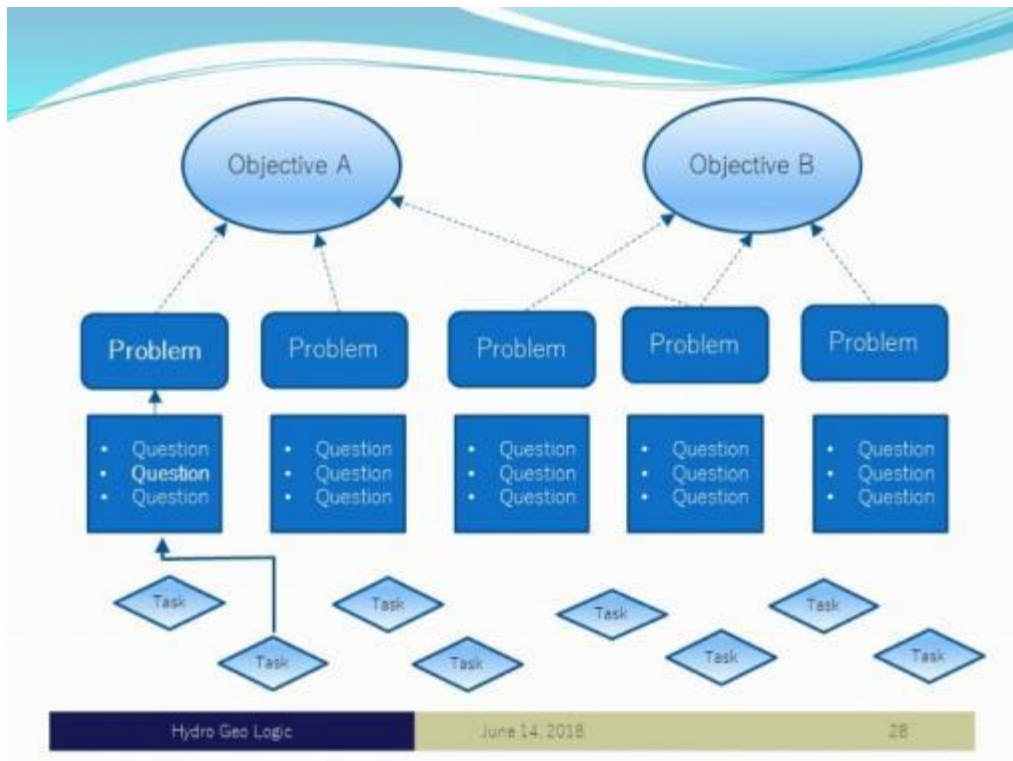
Linking tasks to problems and assessing need for SSIWPA's coordination

by Mike Wei, P. Eng.

Group exercise – assess, link and filter tasks

Take 3 example tasks from the draft work plan.

1. Assess if a task is SMART: Specific, Measurable, Achievable, Realistic and Time-bound?
2. Link task to problem statement and related question.
3. Filter: is it a task that requires SSIWPA coordination?
 - Is it a task that involves the effort of multiple agencies/stakeholders (or sole jurisdiction)?
 - Is it a task that will directly benefit multiple agencies/stakeholders?
 - Is the task at the right scale to address the problem (and achieve the objective)?
 - Other criteria?



Group exercise – assess, link and filter tasks

Task 1:

8b	Reclaimed water lit review	CEWG	
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Group exercise – assess, link and filter tasks

Task 2:

3a	Surface Water Hydrometric Hydrometric Data Collection Collection			
Sub tasks	1.1	St. Mary Lake (SML)	NSSWD	Record lake level SML water intake - daily time intake - daily time step, at least 1 year 1 year
	1.2	SML Outflow	NSSWD	Record outflow velocity @ Duck Ck, SML - daily Duck Ck, SML - daily time step, at least 1 year step, at least 1 year

Group exercise – assess, link and filter tasks

Task 3:

5b	Groundwater Wells Monitoring Pilot			IT, FLNR
Sub tasks	001	Create selection criteria and list of unused wells from Community well survey 2017 well survey 2017		IT, FLNR
	002	Short-list sites, obtain wellowner agreements, confirm pilot wells		
	003	Install equipment, download quarterly data		IT, FLNR
	004	Create GW Wells Monitoring Hydrographs		IT, FLNR
	005	Analyze suitability for long term program		IT, FLNR
	006	Knowledge transfer		IT, FLNR



Next steps

1. Mike Wei to write workshop report and formulate objectives for Steering Committee consideration.
2. Create tasks/actions for a new work plan that directly relate to the new objectives (problems, questions from workshop), and consider existing work plan as well.



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Next steps

Create tasks/actions for a new work plan that directly relate to the new objectives, and consider existing work plan as well.

Options:

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

Outstanding questions?

Please fill out evaluation form.

Thank you for your contribution today!



Appendix C – Problem statements and related questions

Salt Spring Island Water Protection Alliance (SSIWPA) Strategic Plan Meeting June 12, 2018

Table (circle): **1. Water supply and conservation** 2. Watershed protection 3. Groundwater

Specific problem statement: *How can we use the finite water supply in the most efficient, fair, equitable and sustainable way?*

Questions related to the problem statement:

1	<i>How much water is being used from different sources</i>	<i>surface* water, groundwater, rainwater,* (storage), truck hauling*</i>
2	<i>Are we using water efficiently?</i>	<i>Individual behavior, sustainability of water for purpose of use</i>
3	<i>What incentives? Could be used to promote efficient use?</i>	<i>education, or regulatory - pricing - incentives/ - how financing - grants - loans - use of from different</i>
4	<i>Are there regulatory barriers that disincentivize diversity of water sources</i>	<i>or other</i>
5	<i>eg. building code, - health authority/Drinking water protection</i>	<i>grey water, treated water</i>
6	<i>- financial barriers.</i>	
7	<i>Is there a difference in water use between groundwater users depending on well yield</i>	
8	<i>Do we need to manage to the ultimate drop. - ie ^{what is} reasonable level of management?</i>	
9		
10		

Salt Spring Island Water Protection Alliance (SSIWPA) Strategic Plan Meeting June 12, 2018

Table (circle): 1. Water supply and conservation 2. Watershed protection 3. Groundwater

Specific problem statement: There is no water conservation requirement in the B.C. Building Code, and this is a disincentive to efficient water use.

Questions related to the problem statement:

1	Are there regulatory barriers to safe greywater re-use ^{on site} ?
2	Is there a local 'gap' to understanding greywater and processed effluent use and conservation tools?
3	
4	What incentives and education are available for greywater and processed effluent use/re-use ^{as tools for} ?
5	
6	How could we make coordination between jurisdictions ^{conservation?} effective?
7	
8	How can we remedy lack of bylaw inspection/policing?
9	How far can financial incentives (rebates for low flush, rain storage, etc.)
10	Could there be a template for engineering ^{achieve objectives?} approval of grey train water storage infrastructure? ^{permitting} - pamphlets at Building Permit stage about incentives - meetings by CRO July

Salt Spring Island Water Protection Alliance (SSIWPA) Strategic Plan Meeting June 12, 2018

Table (circle): 1. Water supply and conservation 2. Watershed protection 3. Groundwater

Specific problem statement: There is not enough water conservation education and incentives on SSI.

Questions related to the problem statement:

1	How can we make existing education + ^{raising awareness} more effective?
2	Where can it be funded? What?
3	Should there be a course for all wellowners / water ^{users?} source providers?
4	↳ part of home inspections or homeownes grant?
5	Is the soft path more ^{effective} costly than too much regulatory mgmt?
6	What are ^{aspects} (key points) of the soft path that make it
7	successful in other jurisdictions?
8	- have proven most effective?
9	- Has "soft path" been successfully implemented?
10	Does it make sense to cater ^{unique} strategies to specific water use sectors? How?

Salt Spring Island Water Protection Alliance (SSIWPA) Strategic Plan Meeting June 12, 2018

Table (circle): 1. Water supply and conservation 2. Watershed protection 3. Groundwater

Specific problem statement:

You can't manage what you don't measure.

Questions related to the problem statement:

1	LACK OF COORDINATION OF FUNDAMENTAL DATA MANAGEMENT
2	WHAT ARE THE CRITERIA & PARAMETERS OF FUNDAMENTAL DATA.
3	WHAT ARE PRIORITIES FOR AGREEMENT OF STANDARDS.
4	WHO WILL USE THE DATA?
5	WHAT WATER OBJECTIVES CAN BE USED TO IDENTIFY INDICATORS.
6	Who is responsible as the data manager
7	How is that data shared?
8	Who is responsible for watersheds & resources.
9	
10	

Salt Spring Island Water Protection Alliance (SSIWPA) Strategic Plan Meeting June 12, 2018

Table (circle): 1. Water supply and conservation (2) Watershed protection 3. Groundwater

Specific problem statement: ~~we~~ we need to preserve hydrological processes.
page 1

Questions related to the problem statement:

1	curb excessive tree removal -	→ PRIORITY ^{WATERSHED}
2	How to implement forest management.	
3	understand/prioritize importance of trees for infiltration	
4	Need to increase infiltration.	
5	How to slow flow down to increase infiltration.	
6	How much land does MOTI own? How to involve them /	
7	impact change to practices.	
8	FOREST/FIRE MANAGEMENT → reduce fuel loads - possible impacts	
9	Governance - How can we work together to preserve forest cover	
10	What land practices can mimic natural process	

Private land - educate / encourage / regulate
work together to understand natural processes that contribute to natural processes.

Salt Spring Island Water Protection Alliance (SSIWPA) Strategic Plan Meeting June 12, 2018

Table (circle): 1. Water supply and conservation 2. Watershed protection 3. Groundwater

Specific problem statement: We need to preserve hydrological processes
page 2

Questions related to the problem statement:

1	Don't know what to measure / what are indicators
2	What are the targets for water quality/quantity
3	What watersheds need good water quality improvement?
4	How do we define thresholds (watershed ranking?)
5	What water quality objectives can be used to identify indicators
6	
7	
8	
9	
10	

→ end goal is to zone.

Salt Spring Island Water Protection Alliance (SSIWPA) Strategic Plan Meeting June 12, 2018

Table (circle): 1. Water supply and conservation 2. Watershed protection 3. Groundwater

Specific problem statement: ^{SW is fully recorded.} Large demand for GW for (e.g., large lot subdivisions) + the diversion of gw impacting users + uses (e.g. SW in streams) beyond their limits.

@ Is water the limit to growth?

Questions related to the problem statement: @ how will climate change affect carry capacity?

1	@ what is the carrying capacity of the aquifer?
2	@ where is it likely to happen (this dev.), other than Ganges?
3	@ how do we define limits - will it impact ^{overall} SW sources?
4	@ no big picture? will it - rely impact EFN?
5	@ how how does the aquifer get recharged?
6	@ how spatially + temporally variable is the gw supply?
7	@ right now SSI is experiencing the most intense pressure.
8	@ uncertainty? - enough so that it is dependable.
9	@ urgency? Ganges - needed now. ^{limits to growth}
10	@ should someone/agency direct growth in areas where there is water capacity.

as one considers? @ How do we get data for this?
@ Will it use the informⁿ to inform zoning?

Appendix D – Workshop evaluation summary

SSIWPA is interested in improving how it functions, and appreciates your feedback.

Please respond to each statement, ranking 0 = NOT AT ALL, to 10 = YES, DEFINITELY!

<p>The workshop will result in/resulted in problem statements that will help develop relevant objectives to guide the SSIWPA integrated freshwater management workplan<u>work plan</u>.</p>	<table border="1"> <caption>Data for Statement 1</caption> <thead> <tr> <th>Ranking</th> <th>Before</th> <th>After</th> </tr> </thead> <tbody> <tr><td>3</td><td>1</td><td>0</td></tr> <tr><td>4</td><td>1</td><td>0</td></tr> <tr><td>5</td><td>1</td><td>1</td></tr> <tr><td>6</td><td>1</td><td>1</td></tr> <tr><td>7</td><td>1</td><td>1</td></tr> <tr><td>8</td><td>1</td><td>1</td></tr> <tr><td>9</td><td>1</td><td>1</td></tr> </tbody> </table>	Ranking	Before	After	3	1	0	4	1	0	5	1	1	6	1	1	7	1	1	8	1	1	9	1	1
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<p>I feel confident in the resources, skills and process at SSIWPA steering committee level to protect drinking water quality and watershed health in SSI Local Trust Area.</p>	<table border="1"> <caption>Data for Statement 2</caption> <thead> <tr> <th>Ranking</th> <th>Before</th> <th>After</th> </tr> </thead> <tbody> <tr><td>2</td><td>2</td><td>0</td></tr> <tr><td>4</td><td>0</td><td>1</td></tr> <tr><td>5</td><td>1</td><td>0</td></tr> <tr><td>6</td><td>1</td><td>0</td></tr> <tr><td>7</td><td>1</td><td>3</td></tr> <tr><td>8</td><td>1</td><td>1</td></tr> <tr><td>9</td><td>1</td><td>1</td></tr> </tbody> </table>	Ranking	Before	After	2	2	0	4	0	1	5	1	0	6	1	0	7	1	3	8	1	1	9	1	1
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<p>I understand that integrated watershed management is complex and relies on multiple decision-makers, no one right answer, and excellent communications.</p>	<table border="1"> <caption>Data for Statement 3</caption> <thead> <tr> <th>Ranking</th> <th>Before</th> <th>After</th> </tr> </thead> <tbody> <tr><td>2</td><td>1</td><td>0</td></tr> <tr><td>6</td><td>0</td><td>1</td></tr> <tr><td>7</td><td>2</td><td>7</td></tr> <tr><td>9</td><td>1</td><td>3</td></tr> <tr><td>10</td><td>1</td><td>3</td></tr> </tbody> </table>	Ranking	Before	After	2	1	0	6	0	1	7	2	7	9	1	3	10	1	3						
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<p>I think SSIWPA is on the path to healthy integrated watershed management on SSI.</p>	<table border="1"> <caption>Data for Statement 4</caption> <thead> <tr> <th>Ranking</th> <th>Before</th> <th>After</th> </tr> </thead> <tbody> <tr><td>3</td><td>2</td><td>1</td></tr> <tr><td>5</td><td>1</td><td>2</td></tr> <tr><td>6</td><td>1</td><td>0</td></tr> <tr><td>7</td><td>1</td><td>2</td></tr> <tr><td>8</td><td>1</td><td>2</td></tr> <tr><td>9</td><td>0</td><td>1</td></tr> </tbody> </table>	Ranking	Before	After	3	2	1	5	1	2	6	1	0	7	1	2	8	1	2	9	0	1			
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9	0	1																							
<p>I think that the right people are at the table and able to effectively take part in contributing to a more integrated local protection and stewardship of water resources and watersheds on SSI.</p>	<table border="1"> <caption>Data for Statement 5</caption> <thead> <tr> <th>Ranking</th> <th>Before</th> <th>After</th> </tr> </thead> <tbody> <tr><td>2</td><td>1</td><td>0</td></tr> <tr><td>4</td><td>1</td><td>0</td></tr> <tr><td>5</td><td>1</td><td>1</td></tr> <tr><td>6</td><td>0</td><td>3</td></tr> <tr><td>7</td><td>2</td><td>2</td></tr> <tr><td>8</td><td>1</td><td>2</td></tr> </tbody> </table>	Ranking	Before	After	2	1	0	4	1	0	5	1	1	6	0	3	7	2	2	8	1	2			
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8	1	2																							

Please comment on the effectiveness of facilitators at this workshop:

Very well done. Easy to listen to. Explanation very clear by Mike. Mike was great. Our facilitators also. It worked. Effective based on limited time. Good facilitation throughout (and after lunch). Facilitation was excellent. Good job! They were good.

Please comment on the Water Sustainability Act tools for watershed protection and co-ordinated management topic presented at this workshop:

Very useful. Excellent. Would love slides to review. Mike made an excellent overview presentation!! Yes, appropriate tool for regional. WSA presentation was quite brief but seemed OK for this audience; some people may want more information. Very helpful to learn more about WSA.

Please comment on the facilitation format and/or activities at this workshop:

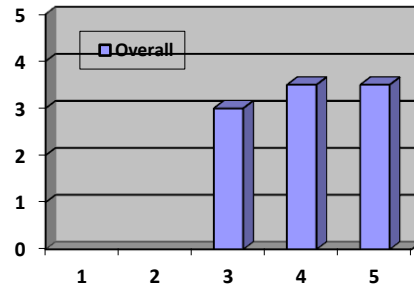
Really good. More time needed to discuss. Well organized. Liked it. Useful, ~~though~~ other tools available.

Overall, please rank your satisfaction with this workshop:

Not satisfied

Very Satisfied

0 1 2 3 4 5



Thank you for your time and effort!

You may contact info@ssiwpa.org if you have more comments or questions for any of today's facilitators.