



Salt Spring Island Watershed Protection Alliance

TECHNICAL WORKING GROUP MEETING

1:00 – 3:00 pm Monday January 9, 2023

By Zoom Video Conferencing

AGENDA

1. CALL TO ORDER

2. APPROVAL OF AGENDA

3. APPROVAL OF MINUTES

Draft Minutes of the Regular Meeting of the Salt Spring Island Watershed Protection Alliance (SSIWPA) Technical Working Group (TWG) held November 14, 2022 are attached for approval - pp. 2-6.

4. BUSINESS ITEMS

4.1 SSIWPA Workplan Project Updates

4.2.1 IT Community Groundwater Wells Monitoring – Member Shulba

4.2.2 Update on ongoing GW Solutions SSI Groundwater modelling iteration II work – Member Shulba

4.2.3 Rainwater Public Education Data Gap Action Item – Members Nentwig and Millson

4.2.4 Know your Freshwater Public Education – Member Lussenburg

4.2 Election of Annual Chair of the SSIWPA-TWG and Terms of Service for members

5. OTHER BUSINESS

5.1 FreshWater Catalogue Update - Chair Millson, WPS

5.2 SSI Watersheds Stewardship Documentary Film Update - Chair Millson, WPS

5.3 Recommendations to SSIWPA Steering Committee (for 2023-01-27)

5.4 Comments or questions from observers

6. NEXT MEETINGS - proposed quarterly schedule for 2023:

Monday March 6, 1pm – 3pm (and informal Monday May 8, 1pm – 3pm)

Monday Sep 11, 1pm – 3pm

Monday Nov 6, 1pm – 3pm

7. ADJOURNMENT



Draft Minutes of the
Salt Spring Island Watershed Protection Alliance (SSIWPA)
TECHNICAL WORKING GROUP (TWG) MEETING

Date of Meeting: Monday, November 14, 2022, 1:00 – 3:00 pm
Location: via Zoom web conferencing

Members Present: Ian Peace, Member at-large
John Millson, Chair
Jos Lussenburg, Member at-large
Ken Nentwig, Member at-large
Lewis Muirhead, Member at-large
William Shulba, Islands Trust Senior Freshwater Specialist

Regrets: Karla Campbell, CRD
Robin Annschild, Member at-large
Sylvia Barroso, SSIWPA Member and Regional Hydrogeologist (Ministry of Forests)

Staff Present: Shannon Cowan, Coordinator (Recorder)

1. The meeting was called to order at 1:04pm.

2. APPROVAL OF AGENDA

The agenda was approved as presented.

3. APPROVAL OF MINUTES

Draft Minutes of the Regular Meeting of the Salt Spring Island Watershed Protection Alliance (SSIWPA) Technical Working Group (TWG) held September 12, 2022 were approved, as presented.

4 BUSINESS ITEMS

4.1 SSIWPA Workplan

4.1.1 SSIWPA-TWG Technical Review in Mount Maxwell Fire, Watersheds and Forests Project – Guest Ruth Waldick

Guest Ruth Waldick shared the project goals and clarified some specific needs on a map of the Maxwell Lake Watershed. Project goals include restoration of native fire-resistant understory and related issues of changes in forest and impacts on water quantity and quality. Of specific concern at the moment and request of the TWG, Guest Waldick outlined that roads in the area have significant sediment and nutrient loading to the lake and she is developing a funding proposal and will be developing a request for proposals



to hire a professional to assist with hydrological engineering design for some system of sediment buffering (retention) to the West of Maxwell Park Road; a series of seasonal stepped retention areas/wetlands.

Member Lussenburg described decant ponds, sediment traps, forest clearing/tree thinning required. NSSWD lands are to immediate west but this is possible in that area.

Member Shulba will provide Guest Waldick with data: all GIS groundwater recharge layers can be available in raster files from Islands Trust. He mentioned that the SSI groundwater recharge study by GW Solutions is nearly completed. At Islands Trust, there is a three dimensional model that uses most recent LiDAR and geological data – GIS images can be layered onto it to visualize the areas of gw recharge and be able to do cross-sectional slices, albeit at a coarse grid scale.

Member Shulba requested that Guest Waldick please georeference the images of where the creeks were surveyed in the past. From groundwater well monitoring, he suggested that hydraulic potential gets saturated January – March. There is very limited groundwater recharge in those months so excess stormwater goes into the ecosystem surface drainage during those times – which is when the road crossing is worst.

Member Shulba sees Professional Governance Act impacts in the program – especially around road crossing design.

The following was shared in the Chat section of the meeting:

Joint Professional Practice Guidelines – Professional Services in the Forest Sector: Crossings

<https://www.egbc.ca/app/Practice-Resources/Individual-Practice/Guidelines-Advisories/Document/01525AMW23GFLUWJCAIFGI3P5YWZKMZS3G/Professional%20Services%20in%20the%20Forest%20Sector%20-%20Crossings>

Guest Waldick indicated that Transition SS hired education support staff, and a project manager. They need a qualified expert to define the work that involves engineering and qualified geoscience design expertise.

Member Lussenburg could assist with helping to write a tight RFP to manage a P.Geo or P.Eng. He suggested phases – low, med and long term objectives. Write a regulatory plan – tick off all the “who needs to be notified”, “what permits needed”, etc.

It was suggested that Guest Waldick consider consulting with Jim Dumont or another engineering firm on the development of the RFP. The Maxwell Fire, Watersheds and Forests program has been renamed by Transition Salt Spring as the “Climate Adaptation Research Laboratory”.



Action: Guest Waldick will send to Member Shulba the Islands Trust Local Trust Committee’s letter to her project indicating support.

Action: Coordinator Cowan will connect Member Lussenburg with Guest Waldick, and assist to coordinate with Islands Trust planning staff assigned to Watersheds on Salt Spring Island.

By general consent, the SSIWPA Technical Working Group agreed to recommend that the SSIWPA Steering Committee requests that the Islands Trust considers staff resources to explore a watershed hydrology project at Lake Maxwell.

4.1.2 Rainwater Public Education Data Gap Action Item – Members Nentwig and Millson

Member Nentwig shared the slides that the subcommittee has developed about rainwater education gaps for discussion.

Next steps: The subcommittee of John, Ken and Shannon (Jos?) will take this to a next refined level, back to TWG for a designed piece in January.

4.1.3 Know your Freshwater Public Education – Member Lussenburg

Member Lussenburg described new ideas. The audience is not those with post-secondary education, but rather the part of the local population with misconceptions about how freshwater works. One idea is a short “TedTalk/video” - total ten or twelve minutes. Main message: all our water comes from the sky. Visuals along the lines of Diana Allen’s freshwater lens. It was suggested that identifying the audience is essential.

Action: Member Lussenburg will create an outline of the key messages for the outreach product by November 21 and will share it with the Know your Freshwater subcommittee of Members Lussenburg, Millson, Shulba, Nentwig and Muirhead.

Action: Coordinator Cowan will convene a Know your Freshwater subcommittee meeting within the next three weeks.

It was agreed by general consent that the two subcommittees for items 4.1.2 and 4.1.3 will finalize work product draft materials in Powerpoint for the January meeting, after which time the Coordinator will work to cost the design/videography work and will steward contracting the production of each item.



There was a brief overview of the action list, and it was noted that the Weston Lake study is marked complete. Two items are not for discussion in this meeting. The three items under section 4.1 of this agenda are in progress on the action list.

5. OTHER BUSINESS

- 5.1 FreshWater Catalogue Update – not discussed
- 5.2 SSI Watersheds Stewardship Documentary Film Update – not discussed
- 5.3 Recommendations to SSIWPA Steering Committee (for 2022-11-25)

Resolution 1:

The SSIWPA-TWG agreed to finalize work product draft materials for i) “Rainwater Harvesting Education Gaps” and ii) “Know Your Freshwater” for the January 2023 TWG meeting, after which time the Coordinator will work to cost the design/videography work and will steward contracting the production of each item.

Resolution 2:

Guest Ruth Waldick of Transition Salt Spring’s Eco-Action Climate Adaptation Research Laboratory (in the Hwmet’utsum/Maxwell Lake Watershed) requested some water and hydrological science technical review and discussion regarding her research program.

Guest Waldick sought TWG consideration and lived expertise as input regarding hydrological- and environmental project planning for the necessary sediment buffering and professionally-guided design of a series of stepped water retention areas/wetlands as actions to mitigate erosion and damage from excessive flows in Rippon and Larmour creeks as they have been diverted to Maxwell watershed.

The SSIWPA-TWG recommends that the SSIWPA Steering Committee requests that the Islands Trust considers staff resources to explore a watershed hydrology aspects of the EcoAction project at Lake Maxwell.

Member Muirhead left the meeting at 3:08pm

In the chat section of the meeting, the following was suggested:

- Maxwell drainage network lidar was shared (as prepared by TSS-EcoAction)
- Audience identification for the second freshwater product is a next step

- 5.4 Other: Member Millson provided a reminder of Stqeeeye’ Learning Society’s wetland restoration gathering for public information from 11am – 1pm on November 16th.



There were no observers.

6. NEXT MEETINGS

Monday January 9, 2023 1:00 – 3:00 pm

7. ADJOURNMENT

The meeting was adjourned by general consent at 3:25pm.

CERTIFIED CORRECT:

John Millson, Chair

Shannon Cowan, Recorder



Salt Spring Island Watershed Protection Alliance

**TECHNICAL WORKING GROUP
Terms of Service**

Proposed in TWG regular meeting to be held January 9, 2023.

Member Name, Position	Term Beginning	Term Ending	Join Date
Robin Annschild, Member at-Large	January 1, 2023	December 31, 2023	2020
Karla Campbell, Ex Officio, CRD	January 1, 2023	December 31, 2023	2022 (September)
Jos Lussenburg, Member at-Large	January 1, 2023	December 31, 2023	2016
John Millson, Chair	January 1, 2023	December 31, 2023	2017
Lewis Muirhead, Member at-Large	January 1, 2023	December 31, 2023	2022 (April)
Ken Nentwig, Member at-Large	January 1, 2023	December 31, 2023	2022 (April)
Ian Peace, Member at- Large	January 1, 2023	December 31, 2023	2020 (June)
William Shulba, Ex Officio, Islands Trust	January 1, 2023	December 31, 2023	2017

On leave until 2024: Sylvia Barroso, BC Ministry of Forests, Ex Officio Member