Global Water Futures 2021 Operations Team Meeting – Project Reporting Template

Instructions: All GWF projects are asked to provide a summary update on their activities and accomplishments in preparation for the upcoming Operations Team meeting. Please submit these by email to chris.debeer@usask.ca by no later than December 2. These will be used to help guide discussions and breakout synthesis activities and will be made generally accessible on our website in advance of the meeting.

<table>
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<tr>
<th>Project Name:</th>
<th>Ohneganos – Indigenous Ecological Knowledge, Training and co-creation of mixed method tools</th>
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<tbody>
<tr>
<td>Our major accomplishments to date are:</td>
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**Indigenous Knowledge/Traditional Ecological Knowledge Team: Lead Dawn Martin-Hill**

- Virtual Reality Working group of Indigenous knowledge holders, linguist, tech and production team, developed Skyworld story water teachings script in Mohawk, hired actors and artist
- Ohneganos YouTube video show Let’s Talk Water, hosted by Makasa Looking Horse, was named Winner of David Suzuki Foundation People’s Choice Award 2021
- Grade 9/10 framework with Kawenni:io (Six Nations) Private School completed for a bilingual textbook building on existing Haudenosaunee sciences and ecological sciences with Indigenous stories, interactive maps and other educational resources with apps and governance materials
- Training community youth with turtle trackers and sensors (shared with GWF Co-Creation and Sensor team)
- Established Virtual Reality (VR) development script, gaming prototypes, and committee of mothers and speakers for Haudenosaunee cultural engagement and learning
- Birthing Centre co-developed survey for new mothers on water access, 54 completed by midwives and co-publishing ‘Impact of Water Insecurity on Mental Health of Young Mothers of Six Nations of the Grand River, Frontiers, Water-Gender-Migration: The Complex Nexus and Interlinkages, submitted
- Youth lead has engaged local high schools, developed webinar on Indigenous water issues for Waterlution, invited to cyber - present in Sweden, Germany, Mexico, Watershed Convention Global Climate Strike, on Vice news, Chatelaine magazine, COP26 Changemakers book, and
- Mapping Lead Chris Martin organized and lead Haldimand Tract Workshop/Symposium, and Indigenous Mapping Workshop 2021 - Terrastories with Rudo Kemper from Digital Democracy
- Publications
Water Governance Team: Lead Dr. Beverly Jacobs, University of Windsor
- Knowledge mobilization of SN on Nestle/Blue Triton groundwater extraction
- Youth lead secured cease and desist from Haudenosaunee Confederacy
- TEK committee secured network for youth SHAD Academy, Indigenous Studies and SNP STEAM academy to host youth awards, Indigenous futurisms
- Developed a Canadian Water Agency Indigenous governance SN response
- Developed a network of scientist, university senior administration working group with elected Council to advance Indigenous management of waters

Mental Wellness Team: Leads Lori-Davis Hill and Dr. Werkele
- Established the Ohneganos Six Nations Youth Mental Wellness Advisory and Research Development Committee to inform and guide our work
- Created new items to develop a culturally-relevant survey of youth water anxiety and water-related resilience factors
- Adapting JoyPop app to integrate water-related elements to bolster resilience, making it the first Indigenous youth-oriented mental health app of its kind
- Secured a CIHR-GHI development grant with Water Governance lead, Dr. Bev Jacobs
- Publications

Our current activities are:

Indigenous Knowledge/Traditional Ecological Knowledge Team:
- The Ohneganos Team is utilizing the Terrastories software mapping application to conduct a community-led digitized Indigenous Map of Haudenosaunee knowledge, history and stories (shared with GWF Co-Creation and Sensors) lead by Mapping Lead Chris Martin, with Rudo Kemper from Digital Democracy
- Mapping Lead Chris Martin is training youth in Environmental Assessments, GIS Mapping, TEK, and more through Six Nations Polytechnic STEAM Academy
- Formed Haudenosaunee Digital Arts group to collaborate on expressing and disseminating mixed media arts related to Haudenosaunee and other Indigenous relations to water, culture, and histories
- Working with Six Nations Health Services to develop the Haudenosaunee wellness model
- Formed a Traditional Ecological Knowledge (TEK) Education Committee to develop accreditation for current, ongoing and future mixed methods, forward reach, diploma and water management training
- TEK Education Committee are working on finalizing CE for STEAM Academy students to translate 90 hours for a university credit
- TEK Education Committee is working on developing an open access course on TEK with CE
- Creating a Grandmothers Council to advise all aspects of the IK/TEK project work
- Continued development of Haudenosaunee VR scripts and game interfaces
- Publications in progress
- “Ohneganos: Portaging the Kaswentha” in *Polishing the Covenant Chain, Living the Two Row: A Collection of Essays*. Authors: Dawn Martin-Hill, Lori Davis Hill, Sara Smith, Colin Gibson, Makasa Looking Horse, Bonnie Freeman, Nidhi Nagabhatla, Caner Sayan
- Makasa Looking Horse invited by Formac Lorimer Publishing to author a children’s book

**Water Governance Team:**
- Youth outreach secured support from Haudenosaunee Confederacy Council to serve a Cease & Desist on water extraction on Haudenosaunee land
- Engaging with McMaster University, Six Nations Elected Council, and GWF to develop research support with Indigenous Canadian Water Agency policy

**Mental Wellness Team:**
- Forming a committee (community youth and adults, and mental wellness team) who will meet monthly via online chat
- Youth water-resilience digital story workshops
- Article based on health survey information

The main accomplishments expected by the end of the project are:

**Indigenous Knowledge/Traditional Ecological Knowledge Team:**
- Create an IK/TEK holders with language speakers/codification/identify sub-committee to advance priorities for co-creation of materials required for curriculum of WS/IK sciences, maps, digital storytelling and online material accessible in bilingually
- Online website with TEK Mixed methods resources globally and locally
- Established pathways for secondary and post-secondary environmental water focused applied and research informed credits and diploma, with pathways to the sciences
- Create and compile digital stories archives
- Outreach programs sustaining recruitment into the programs through science and sports camps for youth, art/science exhibits with local cultural centres, museums, and art galleries
- Establish an ecological health and water management office at Six Nations, building on existing services
- Bilingual Mohawk Cayuga and English Haudenosaunee science textbook building on existing Haudenosaunee sciences and ecological sciences with Indigenous stories, interactive maps and other educational resources with apps and governance materials

**Water Governance Team:**
- Legal framework on water governance that incorporates Indigenous law with international and Canadian Laws for Six Nations
- A citizen’s guide to ecocentric water protection rooted in Haudenosaunee and Western legal traditions

**Mental Wellness Team:**
- Completion of Indigenous holistic mental health app that includes youth digital stories about water resilience
- Online #ResilienceInWater art exhibit
- Guidelines on water resilience for professionals working with Indigenous youth
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<tr>
<th>Community hosted event with youth speakers</th>
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<td><strong>Here is a key visual from the project</strong> (figure, photo, table, graph, etc.)</td>
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