

Waikato Enviroschools - aligning strategies to grow



210
Enviroschools

50
ECE centres

160
Schools

49,600
Tamariki & students

14% of early childhood
57% of primary & intermediate

43% of secondary
67% of composite & other

14 Regional Partners

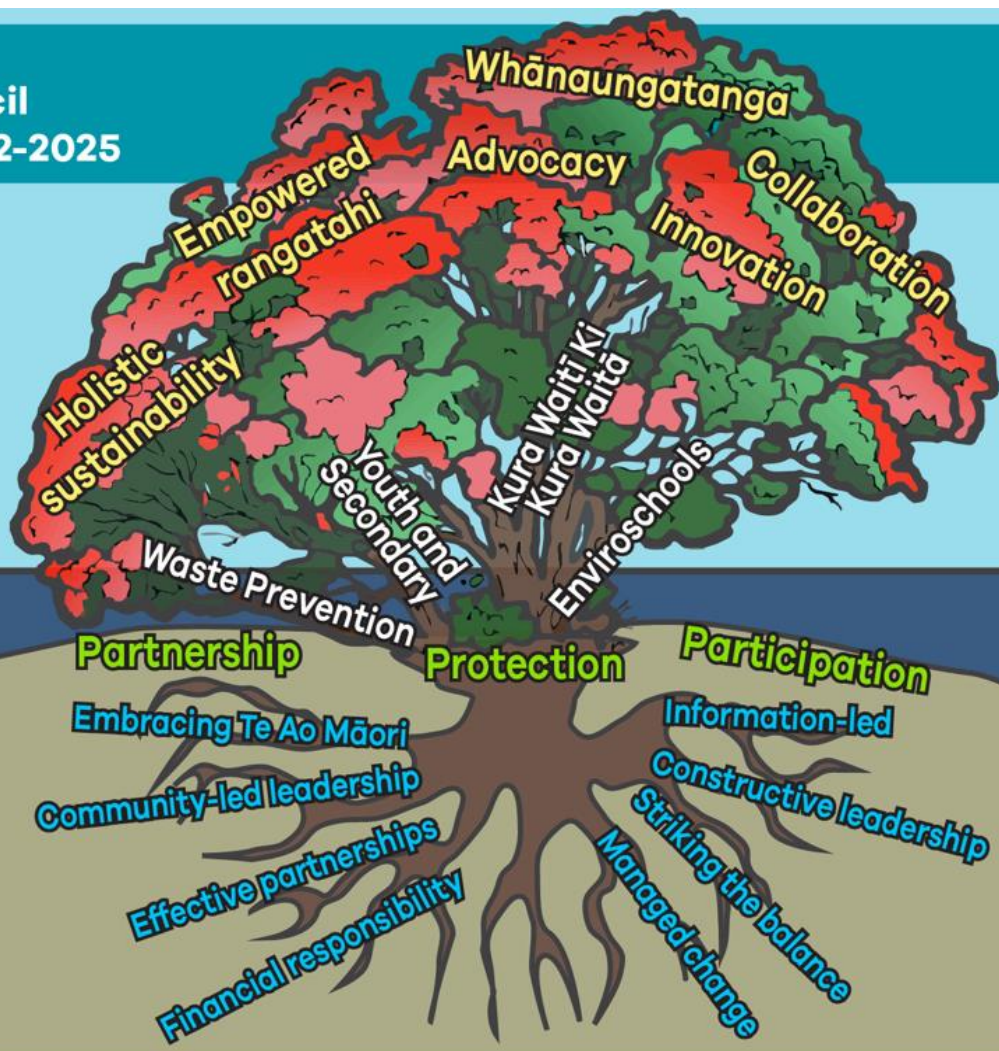
3 Collaborators



**Our vision for the
Waikato Regional Council
Education Strategy 2022-2025**

Creating a region of sustainable thinkers who take action on environmental issues in their community.

*Mehemea ka moemoea ahau,
ko ahau anake. Mehemea he
moemoea tatou, ka taea tatou.*



WRC Education Strategy

Ngā aronga nui Our strategic priorities



Wai
Water



Rerenga rauropi, tiakitanga taiao
Biodiversity and biosecurity



Takutai moana
Coastal and marine



Hanganga tauwhiro
Sustainable development and infrastructure



Hononga hapori
Community connections



Whakaheke tukunga
Transition to a low emissions economy

A focus on wellbeing and how we respond to climate change is woven through all our priorities.

To support the development of this strategic direction, council commissioned an analysis of political, economic, social, technological, legal and environmental (PESTLE) trends and their implications (key trends, opportunities and challenges) for the governance of the Waikato region.

View the report: waikatoregion.govt.nz/PESTLE-2022

WRC Strategy

Takatū Waikato Making a Stand for the Waikato

Strategic Direction
2023 - 2025

He taiao mauriora
Healthy environment

He hapori hihiri
Vibrant communities

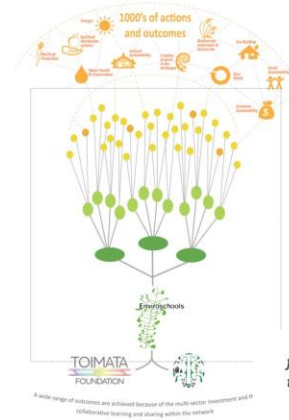
He ōhanga pakari
Strong economy



Collaboration

Wider community
↑
Schools and centres
↑
Regional co-funding
↑
National hub

EnviroSchools



"Enviroschools offers high-quality facilitation, and the work of the facilitators is key to successful programme delivery. Teachers value the holistic nature of the programme and can point to examples of deep holistic learning in schools. Reflective practice is intrinsic to the programme at all levels, building awareness of what's happening, supporting the celebration of what has been achieved and is useful for informing decisions about next steps."

Evaluation of Waikato Enviroschools programme 2023

Ngā aronga nui
Our strategic priorities

- 1 **Wai** Water
- 2 **Rereanga rauropi, tiakitanga taiao** Biodiversity and biosecurity
- 3 **Takutai moana** Coastal and marine
- 4 **Hanganga tauwhiro** Sustainable development and infrastructure
- 5 **Hanganga hapori** Community connections
- 6 **Whakawhete tukanga** Transition to a low emissions economy

Enviroschools Elevator pitch



Enviroschools

Environmental sustainability actions:

- 100% Am Waste
- 92% Kitchen production
- 92% Biodiversity and biosecurity
- 67% Energy
- 63% Ecological Building
- 99% Cultural Sustainability
- 89% Social Sustainability
- 75% Economic Sustainability
- 92% Kitchen distribution
- 83% Water health and conservation

Cultural, Social and Economic sustainability actions:

- 99% Cultural Sustainability
- 89% Social Sustainability
- 75% Economic Sustainability

Field trip inspires college to join Enviroschools

Students begin community with gully restoration

Students connect Waikato growth ready to lead

Enviroschools were up young 'māestros'

Students begin community with gully restoration

Students connect Waikato growth ready to lead

"Enviroschools is empowering people, particularly students and teachers, to take action that benefits their environment. All strands of evidence support our finding that there are high levels of engagement in environmental action reporting. Further, the evaluation evidence suggests that Enviroschools is influencing teaching and learning within some schools."

Evaluation of Waikato Enviroschools programme 2023

Year 1 and 2 Room 2 Enviro Learning Term 1 2023 Action Learning Cycle

Enviroschools

Enviroschools Theme areas Key Concepts

- Me to My Environment**
 - Identifying environmental issues
 - Understanding environmental issues
 - We have a role to play in our environment
 - Understanding the importance of our environment
 - Understanding the importance of our environment
 - Understanding the importance of our environment
- Energy!**
 - Energy is a resource that we use every day
 - Energy is a resource that we use every day
 - Energy is a resource that we use every day
 - Energy is a resource that we use every day
 - Energy is a resource that we use every day
- Living Landscapes**
 - Living Landscapes are the natural and built environments that we live in
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- Water of Life**
 - Water is essential for life
 - Water is essential for life
 - Water is essential for life
 - Water is essential for life
 - Water is essential for life
- Ecological Building**
 - Ecological Building is the process of building a sustainable future
 - Ecological Building is the process of building a sustainable future
 - Ecological Building is the process of building a sustainable future
 - Ecological Building is the process of building a sustainable future
 - Ecological Building is the process of building a sustainable future
- Zero Waste**
 - Zero Waste is the process of reducing waste
 - Zero Waste is the process of reducing waste
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Matamata-Piako district Water

Field trip inspires college to join Enviroschools



Taupo district

Enviroschools serve up young 'masterchefs'



Biodiversity & biosecurity Hamilton City Water

Students inspire community with gully restoration



Climate Hamilton City Hauraki district

Environmental sustainability actions:



100%
Zero Waste



97%
Kai/food
production



92%
Kai/food
distribution



92%
Creative projects
in the landscape



88%
Biodiversity
and biosecurity



83%
Water health
and conservation



67%
Energy!



63%
Ecological
Building

Cultural, Social and Economic sustainability actions:



99%
Cultural
sustainability



89%
Social
sustainability



75%
Economic
sustainability

* Percentages are the total % of participants who are taking one or more actions in the area

“Enviroschools is empowering people, particularly students and teachers, to take action that benefits their environment. All strands of evidence support our finding that there are high levels of engagement in environmental action reporting. Further, the evaluation evidence suggests that Enviroschools is influencing teaching and learning within some schools.”

Evaluation of Waikato Enviroschools programme 2023



Climate Hauraki district

Rangatahi given mic on climate change



Biodiversity & biosecurity Hamilton City

Taupo district

Spreading tradescantia biocontrol agents good hands-on learning



Biodiversity & biosecurity Hauraki district

Hotel pekapeka



Climate Hamilton City Waipā district

Partnerships for Biosecurity Outcomes

- Collaboration with organisations
- Education outcomes
- Support WRC deliver on strategic priorities
- Broad biosecurity outcomes





Kauri Protection





Kauri Protection





Kauri Protection





For me I learned a lot. The first thing I was surprised about was how big the kauri trees were. I wish they were still standing. They were massive. I loved the VR and the waka part was beautiful and the moa and kiwi was amazing.



"It was so cool learning about Kauri trees, especially knowing that there was such an enormous one just up the road from us! It took all of us linking hands to reach around the outside of it. I know what I need to do to try to keep them safe now."

Y4 student MBAS



My favourite part was when I went outside and saw a replica of the kauri tree and I got to see how far the feeder roots extend. This was one of the top ten favourite things I've done this term.

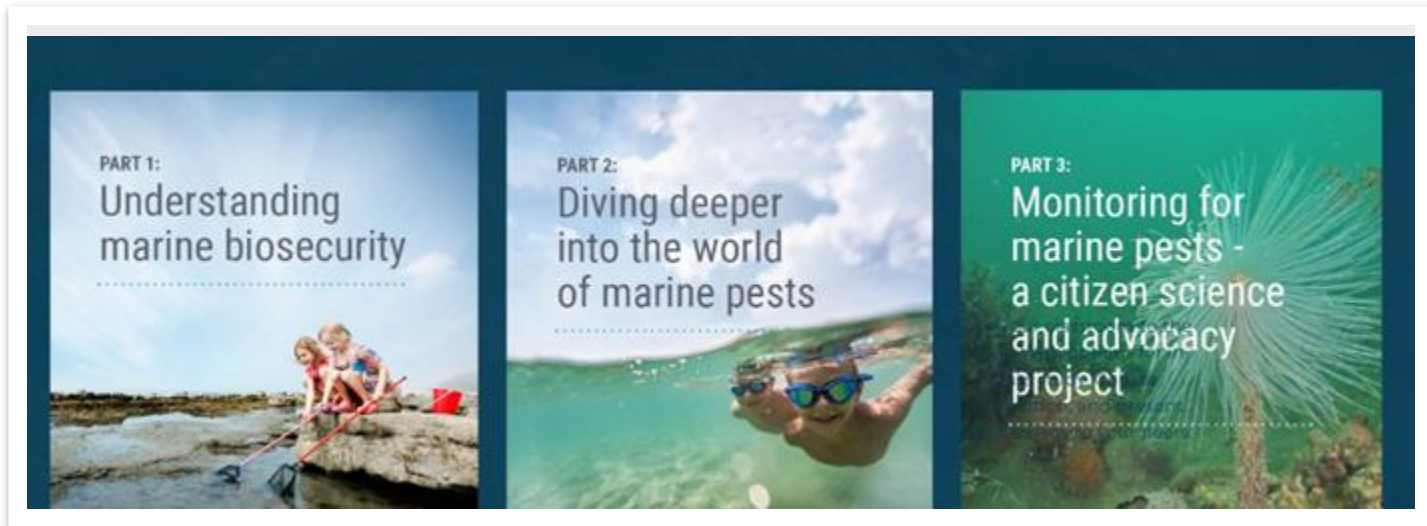
Y5 student -Hikutaia

"I learned so much about Kauri trees, then when I got home and told mum and dad we decided to go on an adventure to check them out ourselves. I told them all the things we need to do in the bush, and how clean our shoes need to be!"

Y4 student MBAS



Marine Biosecurity



Northland
REGIONAL COUNCIL



WITH THANKS TO:

Ministry for Primary Industries
Manatū Ahu Matua



Auckland
Council



Ti Kaurihere o Tāmaki Makaurau


NEW ZEALAND
MARINE STUDIES CENTRE



BAY OF PLENTY
REGIONAL COUNCIL
TOI MOANA


**YOUNG
OCEAN
EXPLORERS**



Marine Biosecurity

Mar 7

Webinar: Marine Biosecurity Education

Hosted by Enviroschools Waikato during Seaweed, this free webinar will explore the new marine biosecurity education module for Yrs 5 - 8, supporting young people to protect our coastlines.

 Aotearoa-wide

 3:30 pm-5:00 pm

 FREE

www.nzaee.org.nz/events

Freshwater Biosecurity



Strategic priority

Wai Water

What we want to achieve

Clean water and healthy aquatic ecosystems that meet iwi aspirations and community needs within environmental limits.

- Stream studies
- Freshwater detective kits
- Support with NCEA
- Enviroschools resources alongside other resources that complement and align

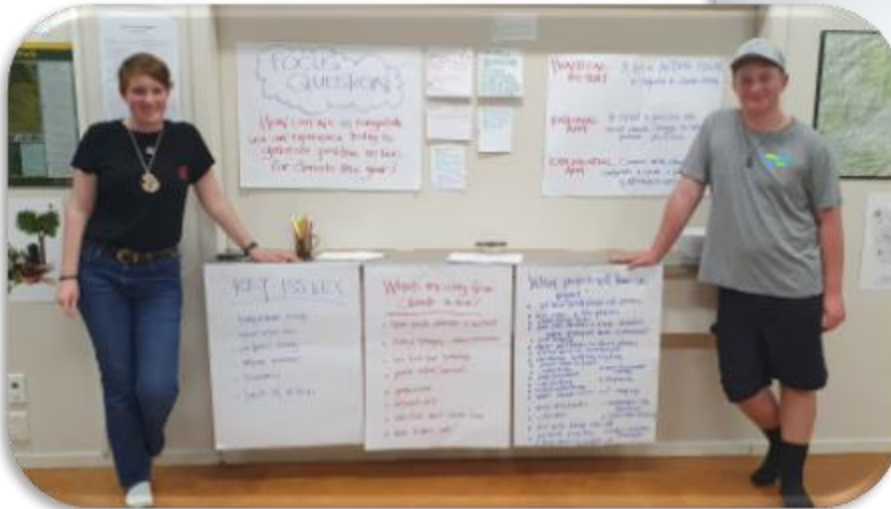


Empowered Leaders

(focus on Secondary Schools)

The youth of today are
the leaders of tomorrow.

Nelson Mandela



Climate Action Camp

**Pirongia Forest Park
September 2022 & March 2023**

Designed to support youth to understand more about climate change, and what actions we can take together.

- Workshops and panel discussions with climate experts and scientists
- Outdoor team building and nature connection activities
- Workshops to develop climate action projects to take back to school
- Funded by WRC Climate Resilience Fund



Leadership Skills Day

- Designed and delivered in collaboration with the Regional Council's People & Capability team.
- Held at WINTEC in Hamilton.
- The day was spent exploring the meaning of 'leadership' and the idea that we can all be leaders using our unique skills and passions.



"I learnt skills that I not only plan to apply in my own leadership journey, but also want to share with others." – Nury Choi, 17, from Rototuna Senior High School



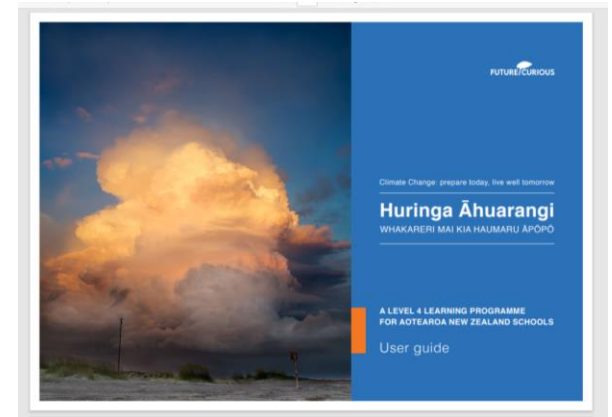
Rangatahi Voices



What's Next?

Climate Summit 2024

- 6-8 May 2024, Kirikiriroa / Hamilton
- Merging kaupapa of Climate Camp and Leadership Skills Day
- Incorporating more Mātauranga Māori
- More input from Rangatahi Voices



Taking Action - Community Based Projects



Understanding

Looking for connections from your vision map

What's the next step for our partnership?

Identify possible partners

Who is responsible for maintaining work done?

Who does the school currently have relationships with?

Brainstorming

How do we celebrate our achievements?

Who else could be involved?

Interviewing

What are the needs and interests of each partner?

What are the needs and interests of each partner?

Partners listening log

What existing projects are being done by Tangata Whenua / Community Groups?

What existing projects are being done by Tangata Whenua / Community Groups?

Hui

What are our common interests?

What are our common interests?

Face to face meetings
Kanohi ki te kanohi

What can each partner offer?

What can each partner offer?

Reflect on Change

Identify the Current Situation

What are the constraints each partner faces?

What is our ability to respond to changing plans?

Partnership Stage

Partnership Stage

Guiding Questions

Partnership Activities

Take Action

Explore Alternatives

Where are our objectives?

Brainstorming

Where can action take place?

Site visits

Maeroa Intermediate - School Gully Restoration



June 2020



June 2023

Getting started:

- Being inspired through field trips
- Identifying the need and imagining opportunities
- Identifying possible community partners
- Listening to ideas and interests of teachers and community partners
- Developing and holding on to a vision – a forever project; not being daunted.

Building enthusiasm and gaining momentum

- Funding:
WRC/Enviroschools, Te Uru Rakau, Waikato Catchment Ecological Enhancement Trust, Puniū River Care Nursery
- Monthly Gully newsletter and updates of school Facebook page
- Community donations



Workshops with WRC staff



Monthly Saturday working bees



After-school working bees – twice a week

Extending, celebrating and succession

- Looking for new opportunities – Tradescantia beetle and fungus translocation
- Developing meaningful water quality monitoring
- Nursery development and extension

2024:

- A hikoi to follow the source of the stream to the Waikato River.
- Conduct bat monitoring with Go Eco
- Telling the story and history of the project so the journey can be shared with students and staff in the future.
- Planning for longevity and succession



Water of Life Encounters

National Trout Centre, Turangi
21 & 22 March

Water of Life



A multi-agency event inspires teachers and students by:

- 💧 Fostering kaitiakitanga values and actions, using real-world contexts
- 💧 Using a broad network of presenters who are involved in analysis, mitigation and education, whose work objectives align with our Enviroschools kaupapa

National Trout Centre

Waikato Regional Council

Taupō EEC- Kids Greening Taupō

Contact Energy

Genesis Energy

NIWA

Taupō District Council

DIA Harbourmaster

DOC

Ministry of Education

MPI

Aquaponics NZ

What happens?

11 stations where students gain an experience relating to contexts such as ...

- Local history & pūrākau
- Energy production locally
- Water monitoring
- Flooding and mitigation
- Life in our waterways (including pests, native species and whio)
- A harbourmaster's mahi
- A NIWA field scientist's mahi
- Wetlands importance / Riparian planting





Costs were negligible due to generosity of sponsors, presenters' employees and the National Trout Centre.

Diverse aspects of the role water plays in our lives are explored.



What happens next?



- Taupō Intermediate wetlands field trip with Science teacher
- Tauhara College field trip to wetland and stream



- St Patricks School:
- field trip to wetlands
- storm water investigations



A community focussed project in partnership with Hamilton City Council, Kainga Ora, Enviroschools and Te Au o Tamatea St Andrews Middle School

Gudex Court Community Kai Project





Blessing with mana
whenua kaumatua
and the community
before first fruit trees
are planted



Anna Casey-Cox - Kirikiriroa Hamilton City Councillor
October 14, 2023

Exciting developments in our city with a new community garden underway in St Andrews/Te Rapa. An amazing collaboration led by our [Hamilton City Council](#) Community Development team, Ioana Manu, with [Kāinga Ora - Homes and Communities](#), [Enviroschools Aotearoa](#), [Hamilton Junior High School](#) and [Te Puna Kai o Waikato](#). I enjoyed talking with Ethan, planting some seedlings and seeing this awesome initiative come to life! [#communitygardens](#) [#localfood](#) [#collaboration](#)



Students get to work, marking out the space and laying foundations



Weekly mahi with the school to prepare no-dig garden beds, planting seedlings, watering, weeding and feeding

What's Next.....

- A more permanent sign
- 3-bay pallet compost system, and pallet seat with support from Bunnings
- Pataka kai
- A tap onsite or water source with support from HCC
- Local community picnic/events planned to grow community



Reflections

- ✓ Relationships are key – being there (but knowing when not to be), checking in
- ✓ Empower the teachers to empower their students and peers
- ✓ Align to council strategy (shared priorities, opportunities, connections and funding)
- ✓ Get clarity to focus shared outcomes of externally funded projects. Scoping documents to plan. Spreadsheets to track.
- ✓ 3 year evaluation of Enviroschools now ongoing KPI – this is a good thing/keeping relevant at ELT
- ✓ Strategic networking as an Education team – my colleagues are advocating for us too
- ✓ Partnership engagement and comms plan to track - traffic lights to keep easy
- ✓ Pivot with opportunity! Supporting a growing network - regional remote support role trial – grouping by kaupapa instead of geography – after school café. Externally funded contracts and associated Purchase Orders.

Service Level Agreement For: <u>Freshwater biosecurity education with koi carp as a key example species. Koi carp</u>	
Education Team Representative/s – Michelle Daly and Arna Solomon-Banks	Potential Partner/s – Danielle Kruger and Michelle Archer
Education Team Strategy (Strategic Focus Area) Water strategic goal Connections to community Other Education Projects	Partner Goals/ Desired Outcome/ Target Audience To identify recommendations of how to best spread awareness of freshwater biosecurity (with particular reference to Koi Carp) across Waikato schools and kura.
Description of Services Provided (Time/ Expertise) Undertake a scoping process to identify opportunities to connect with teachers through existing relationships, programmes and resources. Test possible uptake of these opportunities with a sample group of Waikato schools.	Description of Services Provided and Sought (Time/ Expertise/ Funding) 2 Facilitators with environmental education experience (one facilitator to focus on English medium and one to focus on Māori medium kura) \$10,000 per facilitator (\$52/hr, \$26 travel time plus mileage as required to be invoiced monthly)
Who else could be involved in this work? House of Science Teachers and Kaiako Enviroschools facilitators DOC Kura Waitii Iwi and Mana whenua Matauranga Maori experts	
Background/Context From a Mātauranga Māori lens it is important that we meet iwi aspirations of kaitiakitanga. Te Mana o te awa Te mana o te awa — Science Learning Hub and Te Ture Whaimana o Te Awa o Waikato Home - Waikato River Authority are priorities for WRC and outcomes from these documents we would see as helping to guide and inform the Koi education project that embraces Mātauranga Māori. The recommendations developed must support the identification of a sustainable solution without the need for ongoing funding.	
Expected timeframe of work: Scoping and testing to be completed by end of term 1 2024 Milestones: <ol style="list-style-type: none"> 1. Dec: Secure contracted resource 2. February: Desktop review of existing resources and programmes of work to identify opportunities for environmental education on Koi carp <u>freshwater biosecurity "clean, checkcheck, clean, dry"</u> methods to prevent the spread. <u>CCD prevents spread of all freshwater pests, use koi carp as an example species.</u> 3. March: Testing ideas with schools and kura 	

Service Level Agreement

To explore 'win-win'

To manage expectations

To get clarity on outcome

To find alignment with
Enviroschools longterm

4. April: Produce recommendations
Health and Safety considerations? Lone worker – regular connection for support and accountability Driving – if visiting schools in person
Any existing resources available? Resources for teachers Waikato Regional Council Kura Waiti Ki Kura Waitā Waikato Regional Council Enviroschools Team Area Rivers and Us – introduction — Science Learning Hub Koi carp: New Zealand animal pests and threats (doc.govt.nz) Freshwater pests: Pests and threats (doc.govt.nz) Leviathans New Zealand Geographic (nzgeo.com) Dive the Waikato New Zealand Geographic (nzgeo.com)
How will success be measured? Recommendations will achieve increased awareness of Clean, check, dry methods
Reflection (post work) What worked well and what would we adjust in the future?

Clarity-of-End-Result-1.pdf (pepworldwide.co.nz)

▶ Clarity of End Result

01 An important responsibility or project I need to work on this coming month is:

02 What specific results will you deliver? What is the timeframe, and what is the priority work?:

03 Why is this goal important for me personally?:

Why is this goal important to the organisation?:

▶ Clarity of End Result

04 The consequences of achieving it/not achieving it are:

05 How do things stand now? My starting point is:

06 The obstacle(s) that I see affecting the ease with which I can achieve the result and/or the quality of the result are:

07 How much control do I believe I have over the end result? (%):

08 How will I demonstrate visibly to myself and others that progress is being made?:

Event Scoping		Planning Lead: Jennifer Scothern-King
What (name of Event)	Water of Life ENCOUNTERS; 21 ST AND 22 March 2024	
Who (target participants)	Teachers of Taupō, Tokoroa and Rotorua Lakes schools and their students from Year 5 to Year 10	
Why/Purpose (objectives/learning outcomes)	<p>To provide</p> <ul style="list-style-type: none"> An interactive/experiential learning opportunity for students and teachers to <ul style="list-style-type: none"> gain a deeper appreciation of the vital role clean water plays in our community and every community, as a taonga to be protected. Discover what stormwater is and what happens to stormwater ... plan what actions are needed <u>in order to</u> minimise negative impacts on waterways Realise and value the inseparable connection between atmosphere, land and water. Learn about Energy production in Turangi using clean natural water resources Gain some scientific understandings relating to water quality and how to check for water quality in their local area A collaboration of entities concerned with water quality, water uses and water conservation Inspiration for all those who attend to deepen their connection with the role water plays in their lives and how to mitigate for future water security Inspiration to empower students to lead change in attitudes and sense of responsibility, fostering kaitiakitanga values and actions concerning water. Opportunities for pre and post activities to deepen learning and to extend the learning outcomes through action projects Links with World Water Day Links with Waikato Enviroschools Strategy Strategic Priorities: <ul style="list-style-type: none"> 4) Develop youth capability through experiential learning opportunities 10) Deliver events that enable ownership of the sustainability journey and connect with local and sector opportunities to enhance the sustainability for schools. 	
When/where (Date and venue)	<p>National Trout Centre, Turangi; 21st and 22nd March 2024</p> <p>Plan B: If a serious weather event or pandemic prevents this event from being safely held - We will timetable presenters throughout that day to present a 10 to 15 minute online <u>delivery</u>, <u>or</u> reschedule for another date.</p>	

Identify current situation (Review previous event , learnings from similar initiatives in other regions or elsewhere)	<p>Learnings from last year's event</p> <ul style="list-style-type: none"> Have a back-up organiser – A new educator at the trout Centre, Clint Green, who has a teaching background, will ensure a smoother operation on the day and is very efficient and supportive. Clear timeline and organisation; Information sent to schools and potential presenters, who are keen to participate. Clear and timely communication with host facility, schools, our Regional team and presenters <u>is</u> vital. Clear timetable on the day of the event for presenters, organisers and attendees. This time allow more time for each presenter, for movement between stations, and a half hour lunch break for everyone. Hence two days this time. Invite registration and ascertain commitment from schools at least a month before the event (Last year I invited expression of <u>interest</u> but some respondents thought thereby they were already registered. Delegate, where practical, to other organisers or attendees and communicate with EEC members when advice or help is needed. Communicate clearly with bus company, dates, times and numbers of students Contact Energy confirmed to cover bus transport to event Total students – up to 260 students catered for <ul style="list-style-type: none"> 2023: 11 stations last year over 1 day with only 7 stations for each group <u>possible</u>. Based on feedback I propose 2 days to provide more time for each presenter and the students, to maximise impact. I learned that buses cannot leave Taupō before 9am and must return by 2.50 pm
Explore Alternatives (any feedback to act on)	<p>Clint Green, Education Manager at National Trout Centre, is liaising with Trout Centre</p> <p>EEC members discussions – next meeting 5 December 2023</p> <p>All presenters to be confirmed</p> <p>Bus company booking (quotes received) Contact Energy has confirmed their sponsorship of up to \$2500 for transport</p>

<p>Take Action (Design session - facilitator roles before, during, after)</p> <p>Attach session plan</p>	<p>Overview: December 2023 confirm presenters and bus sponsorship</p> <p>Have registration forms sent out.</p> <p>January, February: continue liaising with venue; send out information updates and registration of interest; confirm and communicate with presenters;</p> <p>March 1st confirm buses timetable</p> <ul style="list-style-type: none"> 2024 <ul style="list-style-type: none"> 8 rotations so 8 presenters each day 20 minutes per presentation with 5 minutes for movement to next station Welcome and safety briefing 10am to 10.15am Depart by bus at 1.45 <u>20 minute</u> lunch break Debriefing at 2pm after presenters have gathered their equipment or tidied away for next day on 21st March, if staying for 22nd March <p>Session plan in draft stage</p>
<p>Reflect on change include method to capture feedback, arrange team debrief</p>	<p>Debrief timetabled into the day, Reflection with WRC presenters who attend</p> <p>Adults to complete an H form</p> <p>Students invited to send feedback <u>(good responses last year gathered by their teachers)</u></p>
<p>Comms plan</p> <ul style="list-style-type: none"> Include summary sentence that can be used for promotion. Identify stakeholders and timing for communication Create MS Forms for registration (Add Team as collaborators) 	<p>Water of Life Interactive ENCOUNTERS</p> <p><u>Summary sentence:</u> An interactive experience for students to gain a broad insight into the part water plays in our lives and its importance as a taonga.</p> <p><u>Stakeholders and communication:</u> WRC, EEC and National Trout Centre supporting</p> <p>Spreadsheet- working doc: 2024 draft Water of Life ENCOUNTERS - Google Sheets</p> <p>Brief sent to presenters and schools: Water of Life ENCOUNTERS TAUPŌ 2024 presenters information.docx - Google Docs</p> <p>MS forms: Registration form Registration for WATER OF LIFE ENCOUNTERS 21st, 22nd March 2024 (office.com)</p> <p>Presenters' registration https://forms.office.com/r/eHfFdRi9ud</p>
Resources (Include any budget requests)	<p>Budget <u>koha</u> for volunteer presenters may be helpful. \$50 vouchers for travel for up to 3 presenters (most are presenting in their employment role capacity) (none needed in 2023)</p> <p>Koha to Trout Centre for hosting: \$200</p> <p>Budget afternoon tea provision for presenters each day: \$200</p> <p>Total: \$550 potentially</p> <p>Sponsorship from TDC, Contact Energy and National Trout Centre is provided, including up to \$2500 confirmed from Contact Energy for <u>bus transport</u>.</p>
RC needs	<p>RC to attend, with water model, if possible</p> <p>RC to support with funding and guidance</p>

Event scoping

-ALC, comms and budget

-Peer review