

PALMY'S PLASTIC POLLUTION CHALLENGE

Keeping Palmy's main waterways free from litter

A Guide For Event Organisers





Thanks for volunteering to take care of our waterways.

Removing rubbish pollution from our urban streams, rivers and land helps to prevent flooding, protect native wildlife and their habitat, and keep our environment beautiful.

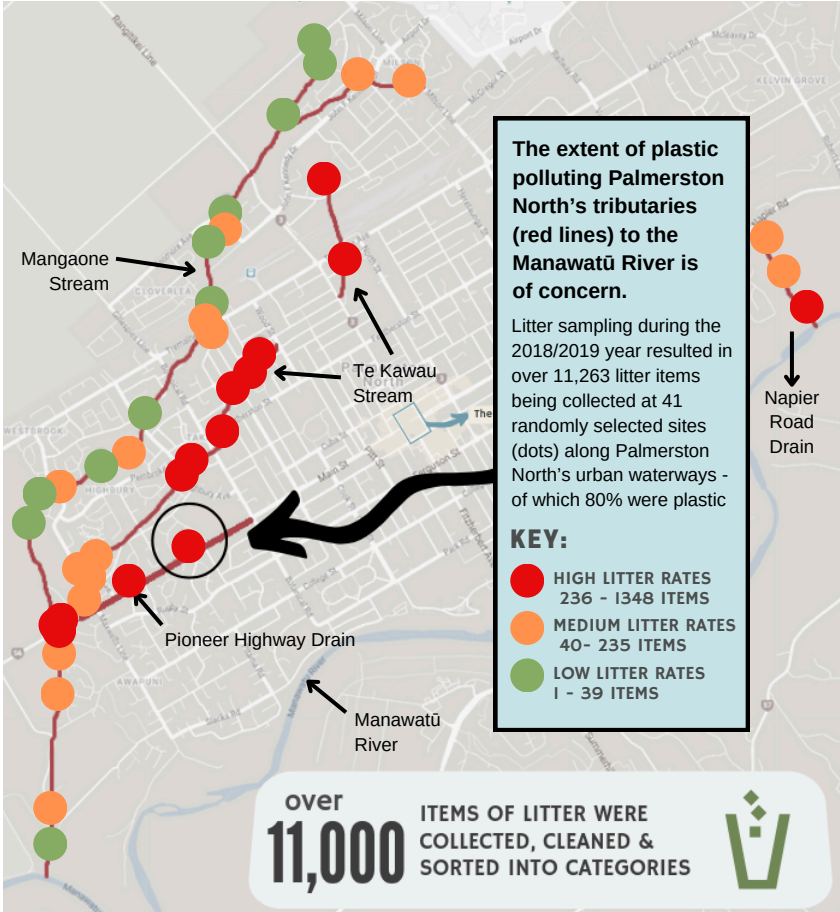
Here are a few things to keep in mind when you go out on your mission.

Remember this is a guide only: participant safety is ultimately the responsibility of the organiser.

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Background to the Plastic Pollution Challenge



This map indicates that the historically and culturally important Te Kawau stream is the waterway most compromised by plastic pollution in the City.

Te Ao Turoa Environmental Centre, the environmental advisory office for Rangitāne o Manawātū, has monitored Palmerston North's urban waterways for a few years and estimates about 5 tonnes of rubbish was removed from just one section of Te Kawau that over that time, with the involvement of about 300 people.

Removing rubbish pollution from our urban streams, rivers and land helps to prevent flooding, protect native wildlife and their habitat, and keep our environment beautiful.

Te Ao Turoa has a very clear vision for a brighter, cleaner future. "Our water is our treasure, our taonga, and we need to care for it. I'd love to see children safely splashing around in Te Kawau and enjoying watching the wildlife there again. The water quality has been declining since the 1980's. Think of what we can achieve as a team of 80 thousand!"

Each year, groups in the community volunteer their time to keep these tributaries free from plastic pollution and other litter. These tributaries rely on volunteers like you!



Essential steps to organising & carrying out a clean-up event

STEPS:

1 Choose the **section of waterway** that you would like to clean from the 'Map of Main Waterways' on Pages 6 & 7.

2

Prepare your Health and Safety Plan:

If your organisation has its own health & safety procedures, read these and incorporate the following as you see fit:

Make a list of the **general hazards** that your participants and general public may encounter during the event, and what actions will be taken to **manage the risk of illness or injury**. You can use the 'Sample: General Hazards & Managing Risk of Injury or Illness' on Pages 8 to 10 as a starting point.

Visit the site and identify the hazards present and how they can be eliminated, isolated or mitigated to ensure the site is safe for the ages and abilities of your expected participants and for the general public. If you cannot easily manage risk of severe injury or illness, eliminate the site and select another.

Plan how you will **manage an incident if it does occur**, including having a certified first aider, first aid kit, and cell phone on site, as well as instructions for participants should an incident occur. You can use the 'Sample: Responding to an Incident' on Page 14 as a starting point.

Put together a **Site Management Plan** that shows the information relevant to organisers and participants, including the event base, first aid post, the location of hazards and your strategy for managing the risk of injury or illness. A 'Sample: Site Management Plan' can be found on Page 12.



Essential steps to organising & carrying out a clean-up event

STEPS continued...

- 3 **Choose a date and time** to clean the location.
- 4 **Ensure you can supply everything listed in the 'Organiser's Pre-Event Checklist'** on Page 15 & make a note of anything you will need from ENM.
- 5 **Fill in the online form to register your clean-up event** on ENM's "Host a Waterway Clean-up Event" webpage, including the specifying the items needed from ENM. Please complete this at least 3 days before the event.
- 6 **Invite people to participate** (Sample: Participant Invitation on Page 13).
- 7 As per your Health and Safety Plan, **check the weather forecast a few days prior to the event**, taking into consideration anticipated and actual rainfall in the upper catchment area as well as at the site, and consider whether to cancel or postpone the event at that time.
- 8 **Gather your equipment in advance**, i.e. at least the day before.
- 9 On event day, **check the site an hour before the event** to assess whether or not the event is safe to proceed and if so whether any additional safety measures need to be put in place.
- 10 **Hold a briefing at the beginning of the event** that all participants must attend, covering the topics listed in the Event Day Form.
- 11 **Regather at the end of the event for a participant debrief** and to collect the remaining data for the Event Day Form, including the combined weight of the small items after collating them into the clear plastic PNCC bags, and the estimated volume and weight of the bulkier items.
- 12 Take the litter in the clear plastic 'Palmy' **bags to the Matthews Ave Transfer Station for free disposal**. The Transfer Station will not accept items that are not in these specific bags.
- 13 **The PNCC will collect items too bulky to fit into the 'Palmy' bags from the pre-arranged collection point** the following day (due to contamination, most items collected will be sent to landfill).
- 14 **Return the completed Event Day Form** (pg 16) to the ENM office, along with any borrowed equipment and spare bags (ensure everything is clean before returning), or email form to circ.economy@enm.org.nz.



Map of main waterways in P.N. divided into sections for clean-up events















- Pick a section of tributary that you would like to clean
- To see which sections have been cleaned recently visit ENM's 'Host a Waterway Clean-up Event' webpage.



Key to map of main waterways divided into sections for cleanup

KEY

Mangaone Stream

-  Private property - permission from landowner & occupier required prior to accessing this area
-  Not safe for community-led clean-up events due to extreme hazard - deep water
-  1. Flyers Line to confluence with right-hand branch of Mangaone Stream
-  2. Milson Line to John F Kennedy Drive
-  3. John F Kennedy Drive to confluence with left-hand branch of Mangaone Stream
-  4. Confluence of left and right-hand branches of Mangaone Stream to Rangitikei St
-  5. Rangitikei Line to Benmore Ave
-  6. Benmore Ave to Tremaine Ave
-  7. Tremaine Ave to Botanical Road (closed until May 2025 due to site works)
-  8. Botanical Road to Highbury Ave
-  9. Highbury Ave to Amberley Ave
-  10. Amberley Ave to confluence with Kawau Stream




Te Kawau Stream

-  11. John F Kennedy Drive to Fairs Road
-  12. Fairs Road to railway tracks
-  13. Tremaine Ave to Rangitikei Street (bounded by industry and QE College)
-  14. Wood Street to Seddon Street
-  15. Seddon Street to Featherston Street
-  16. Featherston Street to Botanical Road
-  17. Botanical Road to Highbury Ave
-  18. Highbury Ave to Monrad Street
-  19. Monrad Street to Amberley Ave (access currently blocked at Amberley Ave)
-  20. Amberley Ave to confluence with Mangaone Stream

Pioneer Highway Drain

-  21. Pioneer Highway - between Monrad Street and Maxwells Line

Napier Road Drain

-  22. Along railway track - back of BUPA retirement village
-  23. Railway track to Napier Road
-  24. Napier Road to Manawatu River

Flygers Line Drain

-  Not safe for community-led clean-up events due to extreme hazard - fast vehicular traffic



Sample: General hazards & managing risk of injury & illness

POTENTIAL HAZARDS	POSSIBLE RISK	ACTIONS TO BE TAKEN BY ORGANISER TO MANAGE THE RISK	ACTIONS TO BE TAKEN BY PARTICIPANTS TO MANAGE THE RISK
Participants not following instructions e.g. due to language barriers, children, mental impairment	Injury or illness to self or others by not following instructions	<ul style="list-style-type: none"> Match clean up site to expected participant age groups and abilities All children (under the age of 18) to be accompanied by an adult Ensure an adequate ratio of adult supervisors to children Use appropriate mediums and content to inform participants of the hazards and how to minimise risk of injury to self and others depending on their age, ethnicity, culture and ability Ensure adults who appear to not understand/be able to follow instructions be paired with an experienced stream cleaner 	<ul style="list-style-type: none"> All children must be accompanied by an adult Work in small groups Participants to work in pairs at a minimum Participants who are taking extreme risks or repeatedly not following instructions will be asked to leave the event
Proximity to large moving vehicles in and around site e.g. access points, road crossings	Injury to pedestrians by vehicles	<ul style="list-style-type: none"> Reduce the number of road crossings when formulating site management plan Alert participants of the risk points Supply hi-vis vests to participants 	<ul style="list-style-type: none"> See site map for risk points, including road crossings, public walkways Be aware of moving vehicles when crossing roads Children must be accompanied by adults at all times Wear hi-vis vest provided
Members of the public in the event area, including walking, scooting or biking along public walkways	Public walking, on bikes, scooters colliding with participants or tripping over equipment or rubbish collected Participants affected by anti-social behaviour from public	<ul style="list-style-type: none"> At access points, alert the public to the event and possible hazards including with flags, signs, supervisors Inform participants of the possibility of the public using walkways and to keep the paths clear of equipment and rubbish collected 	<ul style="list-style-type: none"> Be vigilant of members of the public using walkways, especially on bikes, mobility scooters and 2-wheeled scooters, and promptly step off the path to let people through Keep paths free from equipment and rubbish collected Wear hi-vis vest provided Let an organiser know if someone is making you feel unsafe
Presence of dogs in the event area	Injury from dog bite	<ul style="list-style-type: none"> Alert the public with dogs accessing the site and ask them to keep them under control, out of the water and away from participants at all times 	<ul style="list-style-type: none"> Please do not bring dogs to the event Do not interact with any dogs at the event Please notify the organiser if you see dogs wandering unsupervised around the site - they may have come from neighbouring properties and be unfriendly
Participant existing health issues e.g. allergies from grass pollen, dust, bee stings, heart condition	Injury or illness due to existing health issues that may or not be brought on by environmental factors	<ul style="list-style-type: none"> Ask participants to disclose pre-existing health conditions after health and safety briefing Ensure participants work in pairs as a minimum Do not allow those with high risk of health issues to access the waterway banks or waterway itself 	<ul style="list-style-type: none"> Work to your own ability. Make the organiser aware of any health issues that may affect you or your children during the cleanup Bring any medications that may be required along with you e.g. epi-pen, inhalers



Sample: General hazards & managing risk of injury & illness

POTENTIAL HAZARDS	POSSIBLE RISK	ACTIONS TO BE TAKEN BY ORGANISER TO MANAGE THE RISK	ACTIONS TO BE TAKEN BY PARTICIPANTS TO MANAGE THE RISK
Cold temperature	Hypothermia, coldness	<ul style="list-style-type: none"> Cancel or postpone the event, before or during, if very cold temperatures are expected or present. Have blankets available 	<ul style="list-style-type: none"> Bring layers of dry and warm clothing. Stop working if you feel cold, and return to the Event Base.
Sun	Injury from sunburn or overheating	<ul style="list-style-type: none"> Check weather forecast and cancel or postpone the event if the heat is too extreme. Have ice packs and drinking water available for people to refill bottles 	<ul style="list-style-type: none"> Wear a hat, sunscreen, sunglasses and full coverage of light clothing. Bring a drink bottle and carry it with you. Stop working if you feel too hot, find some shade and remove excess clothing to cool down.
Heavy equipment and waste to transport in and around the site Laborious work	Injury from lifting bulky or awkward items Fatigue and overheating	<ul style="list-style-type: none"> Site Management Plan identifies a rubbish collection point or points Provide guidelines for safe lifting (Pg 11) Provide ropes for hauling rubbish out of the waterway Provide wheelbarrows to minimise effort of ferrying rubbish and equipment around the site Designate participants to ferry items around Rotate roles regularly to reduce risk of fatigue and injury 	<ul style="list-style-type: none"> Work to your own ability and take breaks as required. Share the load between participants where possible. Do more trips to carry less weight. Employ safe lifting practices
Sharp items e.g. glass, wire, needles		<ul style="list-style-type: none"> Provide gloves to participants Isolate sharp items and ensure they are safely disposed of 	<ul style="list-style-type: none"> Safely remove and take any sharp items to the organiser Wear heavy gloves to protect hands in and out of water
Blackberry, branches, nettles, gorse, long grass	Tripping hazard, entanglement, impalement, scratches and stings	<ul style="list-style-type: none"> Isolate areas if too overgrown with hazardous vegetation. Consider cutting back branches and other hazardous obstacles before the event. Provide gloves to participants 	<ul style="list-style-type: none"> Avoid or be aware of hazards as per organiser's directions Wear appropriate PPE e.g. gloves and long sleeves/trousers for protection from scratches and stings
Toxic chemicals in containers	Injury or illness from exposure to toxic chemicals	<ul style="list-style-type: none"> Provide gloves to participants Do not open closed containers and put with bulk items for collection by PNCC 	<ul style="list-style-type: none"> Wear gloves provided Do not open closed containers and take to the organiser
Banks very steep and/or slippery (especially if wet or frosty) Will become more slippery as mud is spread around	Injury to participants from slipping or falling, possibility of drowning if land in stream	<ul style="list-style-type: none"> Exclude parts of site if too steep to access safely Mitigate areas with minor risk of injury from slipping by using ropes tied to trees or sturdy stakes as handholds Postpone the event if banks become too slippery during the session 	<ul style="list-style-type: none"> Wear sturdy footwear with good grip Work to own ability Avoid or be aware of hazardous areas as directed by the organiser
Banks unstable/undercut	Injury to participants from falling or being hit with falling debris	<ul style="list-style-type: none"> Isolate the top and bottom of all (but minimally) undercut banks. 	<ul style="list-style-type: none"> Avoid or be aware of hazardous areas as directed by the organiser



Sample: General hazards & managing risk of injury & illness

POTENTIAL HAZARDS	POSSIBLE RISK	ACTIONS TO BE TAKEN BY ORGANISER TO MANAGE THE RISK	ACTIONS TO BE TAKEN BY PARTICIPANTS TO MANAGE THE RISK
Wasp nests	Injury from wasp stings	<ul style="list-style-type: none"> Notify PNCC of nests to eliminate beforehand or isolate area during cleanup. 	<ul style="list-style-type: none"> Notify the organiser if you come across wasp nests so that they can isolate the area.
Stream/drain beds unsafe due to too deep, flowing too fast or depth unclear due to weed or cloudy water	Risk of drowning from losing footing	<p>Before organising the event, and on the day of the event, before and during:</p> <ul style="list-style-type: none"> Assess the stream depth along the site (use a pole if necessary). Where the water level is above knee depth, eliminate the site or isolate those areas from participants Assess the water current by throwing a stick into the stream. Where the water is knee deep, and the stick is moving faster than walking pace, consider eliminating the site or isolating those areas from participants Look at the latest weather forecast and consider how this may effect the water levels and flow from rain in the upper catchment, as well as at the site location, and consider cancelling or postponing the event Plan to work downstream to upstream to ensure water is kept clear enough to see the depth Designate which adults will be cleaning the stream, the remaining participants will not be allowed in the stream 	<ul style="list-style-type: none"> Children are not allowed on the waterway banks or in the waterway itself Children must be accompanied by an adult at all times ONLY those adults who have been designated to clean the stream by the organiser are allowed to enter the stream. Designated stream cleaners must not go into areas where the water is above their knee depth If the water level increases to above knee level in the area you are in, leave the waterway immediately Avoid areas that the organiser has identified as out-of-bounds Work downstream to upstream to avoid discolouring the water that's being worked in to give you the best chance of seeing the depth. Use a pole to test the depth where you are uncertain and use as a stability aid
Waders	Risk of drowning due to losing footing while wearing chest waders and them becoming buoyant or water logged	<ul style="list-style-type: none"> Do not allow the use of chest waders 	<ul style="list-style-type: none"> Chest waders are not to be worn, thigh waders are ok.
Contaminated water e.g. toxic algae, man-made solutions e.g. fuel, leachate from dead animals in water (rats, dogs, cats, etc.)	<p>Risk of swallowing toxins if fall into the stream</p> <p>Risk of reactions, infections if skin is in contact with toxins in the water</p>	<ul style="list-style-type: none"> Do a site visit before the day to check for contaminated water. If algae present could be toxic check with Horizons Regional Council and act on their advice. If there are dead animals ask the PNCC to remove carcasses from the site well before the event. If not, avoid the site. Have water and soap available to wash skin. Have drinking water available to wash out eyes and mouth. 	<ul style="list-style-type: none"> Wear appropriate PPE e.g. gloves. Notify the organiser if you come across animal carcasses in and around the stream so that they can isolate the downstream area. Notify the organiser if you think there are unsafe levels of toxins in the stream.



Guidelines for Safe Lifting

The **DON'Ts** and **DOs** of **SAFE LIFTING**

DON'T



DON'T try to handle bulky loads alone, leaning the weight against your torso

DO utilize more than one worker to lift and move bulky loads



DON'T lift with your back, curving your body to grab and lift loads from the ground

DO lift with leg muscles, keeping your back straight while bending knees



DON'T haul heavy, hazardous loads that require an intense amount of strength

DO use equipment such as dollies, hand trucks, and forklifts to safely lift heavy loads



DO





Sample: Site Management Plan

Location of site specific hazards and managing the risk through elimination, isolation & minimisation

SITE MANAGEMENT PLAN

based on site visit on 5th Jan 2025

to identify site specific hazards and managing risk of injury or illness

Whakapai Hauora Stream Clean Up Event
from confluence with left-hand branch to JFK Drive
Saturday 19th Jan 2025, 9am to 11am

Event Base

Organisers to meet here at 8.30am for event set up

Participants to meet here at 9am for health & safety briefing

Basic First Aid Post

Bring all rubbish back here
Agreed point for collection of bulky waste items by PNCC

Participants to meet up here at 11am for weighing of rubbish & group photo









Park on left side of road facing North/ East

Mangaone Stream - left-hand branch

Mangaone Stream - right-hand branch

Designated adults to enter stream here (confluence with left hand branch of Mangaone Stream)
Adults only on stream banks

KEY of site specific hazards and risk management

-  Park on left side of John F Kennedy Drive when facing North/East - parking is on same side of road as meeting point
-  Event Base, First Aid Post, Rubbish Collection Point - JFK Drive entrance to Mangaone Stream walkway - meeting point at start and end of event
-  Clean up starting point - safe access point to enter the stream here and walk up-stream
-  Direction of stream clean up (walking upstream)
-  Mangaone Stream (right hand branch) - water level currently ankle to knee deep, weed in places obscuring view of stream bottom (only designated adults allowed in stream), Banks grassy, stable and moderately steep - no visible undercut, accessible by foot with care (only adults allowed on stream banks) Children must stay on flat areas. At time of site visit, no areas at this site need isolating.
-  Formal walkway - 12 minutes walk from Event Base to stream entry point - provide wheelbarrows & designate participants to transport equipment & rubbish around the site (children allowed here when accompanied by adults)
-  Flat grass area accessible by foot (children allowed here when accompanied by adults)
-  Road - be aware of moving vehicles when crossing roads, children must be accompanied by an adult



Sample:

Participant invitation

Kia ora _____ (name of participant),

Would you like to join us on **Saturday, 19th January 2025** between **9am and 11am** to help remove plastic and other litter from the **Mangaone Stream**, between the confluence of the left and right-hand branches of the Mangaone Stream and John F Kennedy Avenue, as part of **Palmy's Plastic Pollution Challenge?**

Removing rubbish pollution from our urban streams, rivers and land helps to prevent flooding, protect native wildlife and their habitat, and keep our environment beautiful. Whilst the PNCC does its best to keep our City clean, because it is such a large area, the Manawatu River also relies on the Palmerston North community to keep Palmerston North's tributaries free from pollution.

If you would like to help out, please meet at the **John F Kennedy Drive access point to the Mangaone Stream** at **9am** for an event briefing, including health and safety procedures and how to respond in an incident, and to collect equipment and the personal protective equipment (PPE) required for the job.

If you are able to stay for the duration, we will regather at the meeting point at 11am for a debrief and to have a group photo of you with the waste collected.

Before the event, please read the documents attached to this email, comprising:

- the general hazards that you will or may encounter during the clean-up event and the precautions to take to keep you and others safe, including guidelines for safe lifting
- A Site Management Plan, showing the important features such as vehicle parking, the meeting point, first aid post and site-specific hazards to be mindful of
- Instructions for responding to an incident

PLEASE BRING ALONG WITH YOU ON THE DAY:

- A copy of this email, including attachments
- Gumboots or sturdy footwear
- Sunblock
- Sunglasses
- Sun hat
- Insect repellent
- Towel
- Warm layers of clothing
- A dry change of clothing
- Wet weather gear
- Any medication that you may require e.g. epi-pen, asthma inhaler



Sample: Responding to an incident

In the case of injury or illness:

Make the site safe from further risk of accident or illness

If the injury or illness is severe, call 111 immediately for an ambulance and/or other services

Below are injuries or illnesses that require immediate action from you before a Certified First Aider gets to you.

Once preliminary first aid is administered, notify the organiser on _____ (ph. number) and they will send a trained first aider to attend to the injured or ill person.

UNCONSCIOUSNESS

Check Airways, Breathing and Circulation and if the person is not breathing and their airway is clear, commence CPR.

SEVERE BLEEDING FROM CUTS OR PUNCTURE WOUNDS

1. Avoid contact with blood or other body fluids from the injured person and thoroughly wash your hands or any blood-splashed skin as soon as possible.
2. Raise the injured area to reduce blood flow.
3. Apply firm pressure over the wound with a clean cloth or clothing

FRACTURES AND DISLOCATIONS

4. Do not move the patient or injured area unnecessarily
5. Control any bleeding and support the injured limb/area.

ALLERGIC REACTIONS

From bee stings

1. Within seconds brush or scrape the area with a fingernail or side of your hand to remove the barb from the skin.
2. Check if patient is allergic to bee stings and has an epi-pen
3. Raise the affected area as high as possible to limit swelling
4. Observe the patient closely for any change in condition. If any warning signs of an allergic reaction occur call 111 for an ambulance. Warning signs include a fine rash over the trunk, wheezing, coughing, or swelling around the face, eyes, and neck

Asthma attack from allergens

1. Check if patient has asthma and is carrying an inhaler
2. Administer inhaler
3. Observe the patient closely for any change in condition. If condition worsens significantly call 111 for an ambulance.

SPIDER BITES

1. Wash the affected area to remove remaining venom.
2. Keep the patient still to reduce the toxic effects of the venom (Katipo spider bites may cause pain and illness in small children but are not normally a threat to life).
3. Raise the bitten limb to limit swelling.
4. Observe the patient closely for a change in condition and if pain becomes severe or patient becomes ill with fever, headache, and nausea or vomiting seek medical advice or call 111.

SPRAINS, STRAINS, AND BRUISES

Assist the patient to rest in a comfortable position.



Organiser's pre-event checklist

THINGS TO HAVE ON THE DAY:

- Palmy's Plastic Pollution Challenge "A Guide for Event Organisers"
- Health & Safety Plan, comprising a minimum of:
 - General hazards & management of risk of injury or illness, including guidelines for safe lifting (sample on pg 8-11)
 - A Site Management Plan (sample on pg 12), showing site-specific hazards and management of risk, logistics, timings etc.
 - A plan for responding to an incident (sample on pg 14)
- Certified First Aider
- Helpers - to assist with event preparations and running of
- Cellphone
- Containers of drinking water and cups
- Blankets
- Towels

The following can be supplied by ENM on request through the event registration form (Step 5)

Collect:

- Single-use 'Palmy' stream cleanup bags (for free disposal of small litter items at end of event)

Book & Borrow:

- First Aid Kit (contains basic First Aid instructions)
- Flag to identify event meeting point (Plastic Pollution Challenge)
- Gloves
- Hook weighing scales - for weighing bags of small litter items collected
- Hi-vis vests
- Icepacks - remember to freeze at least the day before the event
- Pick-up sticks - for picking up litter
- Reusable litter collection bags
- Ropes (to pull large objects out of the stream & for hand holds as hazard minimisation)
- Safety tape for isolating hazards
- Sanitation equipment: large water containers with taps, hand soap & hand sanitiser
- Table - fold-out
- Waders - thigh
- Wheelbarrows



Event Day Form for Organisers

Fill in progressively on Event Day

GROUP/ORGANISATION NAME:

SECTION OF WATERWAY BEING CLEANED:

EVENT DATE:

START TIME:

FINISH TIME:

MEETING POINT AT START:

TOTAL NUMBER OF PARTICIPANTS (including organisers):

NUMBER OF ADULTS (aged over 18 years):

NUMBER OF CHILDREN:

(must be accompanied by an adult, adequate ratio of supervisors to children)

BRIEF PARTICIPANTS AT START OF EVENT

Event logistics and timing: Y / N

Hazards and management of risk of injury and illness: Y / N

How to respond in an incident: Y / N

Hand out PPE and instructions for use: Y / N

DEBRIEF PARTICIPANTS AT END OF EVENT

Group photo with waste: Y / N

Weight of waste collected in clear plastic Palmy bags: Kg

Estimated volume of bulky items to be collected by PNCC: cubic metres

Estimated weight of bulky items to be collected by PNCC: Kg

PPE handed back: Y / N

List any new hazards that need adding to the "Guide for Event Organisers":

List any incidents that ENM should be made aware of:

Most common type of waste:

Note down any illegal dumping and type:

List any unusual or interesting items found:



Join The Circular Economy Network

Congratulations for completing your stream clean-up event!

You will have seen first-hand the negative impact of plastic and other litter on our aquatic environments. If we don't protect the life-supporting capacity of air, water, soil & ecosystems, nature can't support us and continue to provide us with the resources we need to survive and thrive.

The Solution:

A **Circular Economy** ensures resources are consumed in a way that protects and restores natural ecosystems, specifically through the:

- avoidance of resources that harm the environment: during extraction, production, use and/or disposal
- adoption of economical practices, including only using what we need, and keeping resources in use for as long as possible

JOIN ENM'S CIRCULAR ECONOMY NETWORK

We are an expanding network of groups, individuals and businesses, working together to promote, foster and instill Circular Economy practices and activities within our communities.



Circular Economy
enm
Environment
Network Manawatu

Join our network and collaborate with others to make a difference

E: circ.economy@enm.org.nz

P: 06 355 0126

Stay in the loop by following us:

FB & Insta: @Circular Econ

Join our newsletter: www.enm.org.nz



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