

**Restore  
&  
Renew**



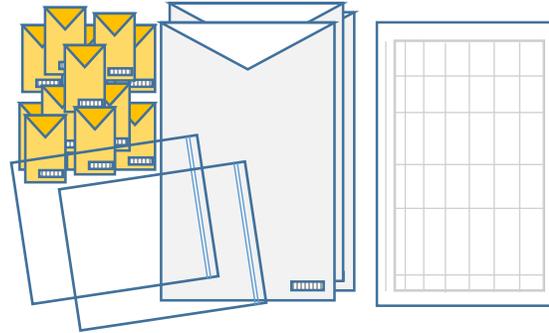
## A simple guide to collecting leaf samples for Restore & Renew

1. What you need to take to the field
2. What is in the collecting Kit supplied by the R and R team
3. How to collect at a location/site
4. What to do with the sample

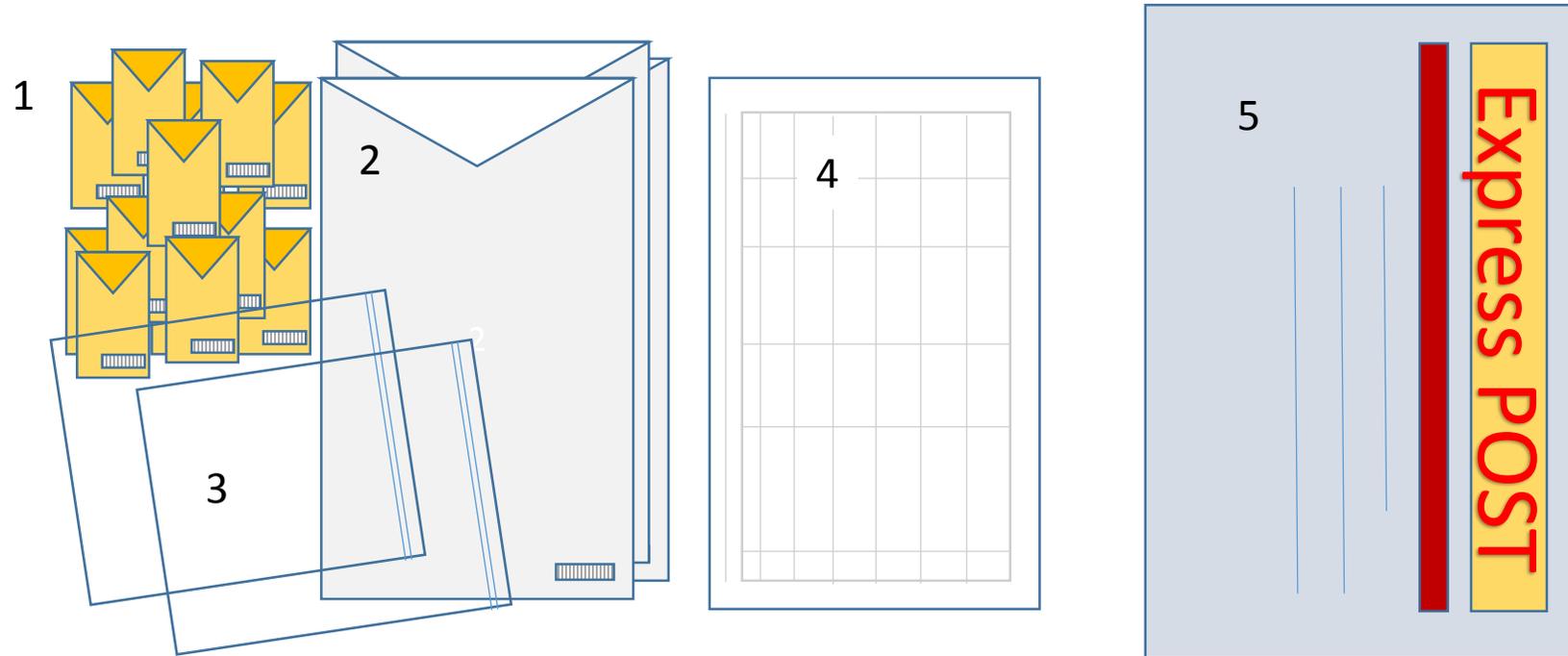
# Collecting for Restore & Renew

## What you need to take along to the field site

1. R & R Collecting Kit (pg 3)
  2. Map (or details of where you might find the plant species)
  3. Species list and identification guides  
(<http://plantnet.rbgsyd.nsw.gov.au>)
  4. Pencil
  5. Esky (for keeping the samples cool)
  6. First Aid Kit & Water
  7. Personal stuff
  8. Smart phone or tablet with iForm App
- OR
- GPS and R & R collection sheets



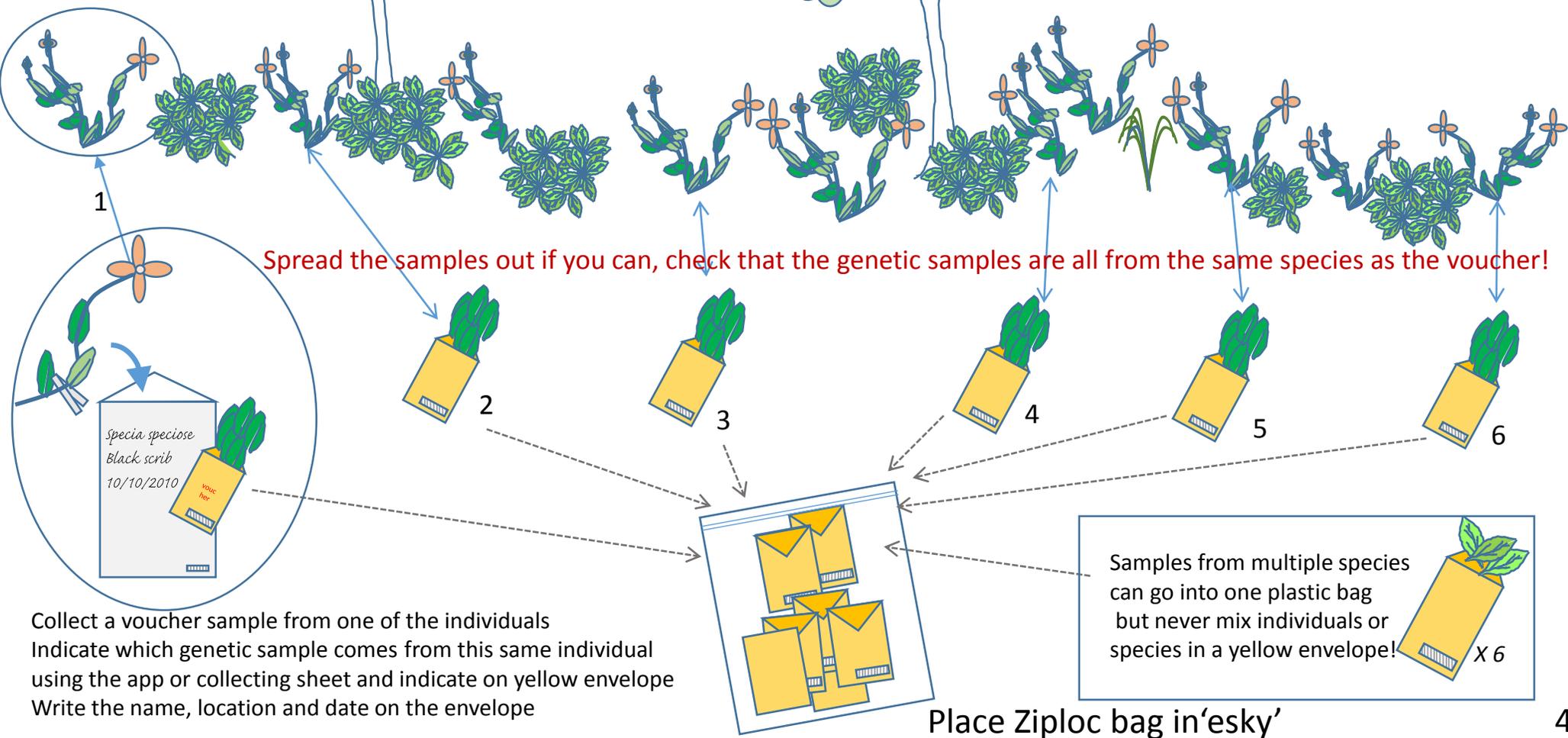
## Collecting Kit supplied by R & R team



1. Little yellow envelopes with a NSW barcode number sticker on each. These are to be filled with clean leaf material that will be used for DNA extractions and genetic work (=genetic samples).
2. Large white envelopes with a NSW barcode number sticker on each. These are for herbarium vouchers – a piece of the plant that can include a flower or fruit and leaves that can be used for identification. (=voucher)
3. 'Ziploc' bags to place filled yellow envelopes in.
4. Collection sheets (use when you don't have access to smartphone or tablet with GPS chip and collecting App)
5. Express Post bag/s for mailing samples to Restore and Renew (see pg 4 for the mailing address):  
Several collections can be mailed together but the samples need to be mailed within 1-4 days after collection otherwise the DNA degrades. The genetic samples need to be kept cold (but never frozen) up until the time of mailing.

# How to Collect for Restore & Renew at a site:

- Find the species you are looking for! Species lists for specific areas are supplied by R & R team
- Collect a **voucher** plus a **genetic sample** from one individual, write 'voucher' on yellow envelope(1).
- Collect additional **genetic samples** from 5 individual plants (spaced apart if possible).
- Fill in each yellow envelope with clean leaf material from each individual plant use young material if possible (2-6).
- Scan/record barcode for each sample and record GPS coordinates for each individual that you collect from (this is for us to get a idea of the distance or spatial distribution of the samples).
- Place the filled yellow envelopes in the Ziploc bag and store in an esky or fridge



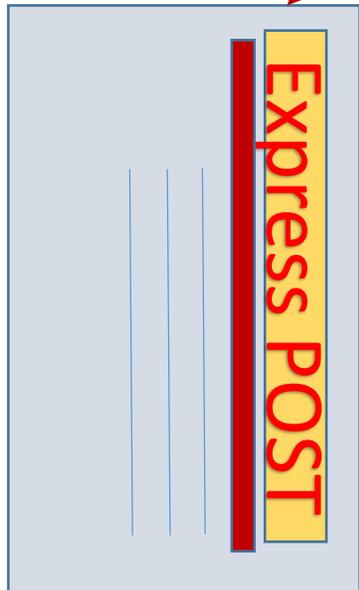
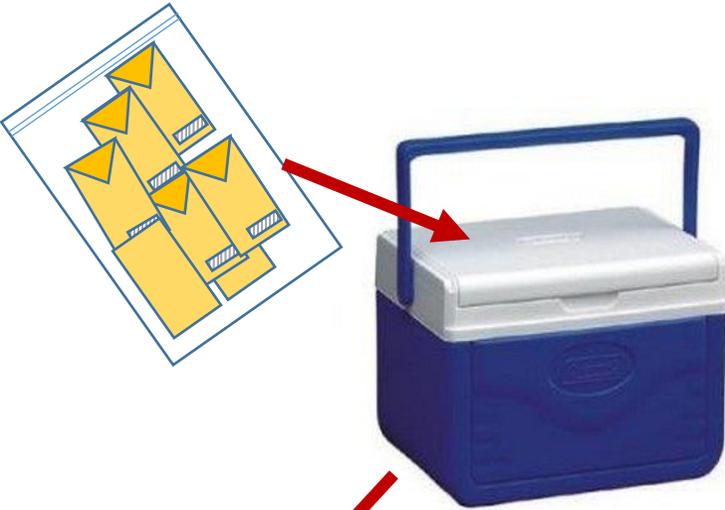
# What NEXT:

**Keep samples cool**  
**Place in an esky/cooler bag etc**  
**Place in your Fridge when you get home**

## **DO NOT FREEZE**

**Freezing damages the DNA**

**Mail within a 1-5 days after collecting**



Mail samples Monday to Wednesday  
(this way we receive it before the weekend!) :

Restore and Renew  
The Royal Botanic Gardens  
Mrs. Macquaries Rd  
Sydney  
NSW 2000



Vouchers don't need cooling but can go into a press or under a heavy book.

If the Express POST bag is full please mail vouchers separately using economy mail.