

Caring for your collections: Emergency recovery of water damaged collections

This guide is designed to provide helpful tips for the initial salvage of collections affected by water. It is important to attend to the damage as quickly as possible to prevent permanent damage and mould growth.

Safety First

- Your first priority is to ensure the safety of yourself and those around you.
- Do not enter the affected area until authorities have declared it to be safe.
- Protect yourself by wearing Personal Protective Equipment (PPE): this includes heavy duty gloves, sturdy, closed-in footwear, protective eyewear and face masks. (e.g. P2 respirator mask) as mould and other harmful contaminants may be present. Make sure you replace your mask regularly to ensure effectiveness.
- If you do find mould, be aware that many moulds can be toxic and it may not be safe to enter the area until it has been checked by authorities. Do not handle mouldy material without protective gear. For more information, please refer to our guide "[Dealing with mould](#)".
- Follow correct lifting techniques to prevent injuries.

Equipment and materials

The salvage methods outlined in this document require the following:

- Plenty of absorbent materials such as paper towels, toilet paper, blotting paper, clean towels, or cotton sheets. (Note: do not use printed paper as the dyes can run when wet and stain objects).
- Plastic boxes or crates for moving collections.
- Fans and portable dehumidifiers.

Procedures

1. Take a deep breath and try not to panic

Salvaging much loved collections can be emotionally demanding. Take heart as in most circumstances you will be able save some of your precious objects.

2. Create a salvage station

- Find a location away from the affected area that is as clean, dry, and well ventilated as possible. This will be where you will assess and treat your collection. Often it is best to do this offsite, away from the disaster area.
- Create an uncluttered work area using tables or other furniture that provides a flat surface. Plastic folding tables work well.

- Line tables and other flat surfaces with absorbent material such as paper towels, clean bath towels, cotton sheets, butchers paper, or blotting paper. These need to be changed regularly.

3. Retrieve collections from affected areas

- When able to enter affected area, clear a path to allow safe access to collections.
- Carefully place material into plastic crates or boxes and transport to the salvage area.

4. Assess and prioritise

- Think like an ambulance officer: identify the objects that are most at risk and attend to them first.
- Sort material into three categories: 1. Sodden 2. Partially wet 3. Unaffected
- Identify the damaged objects that are most valuable to you. This will be a very personal process.
- Use our guide "[Salvaging water damaged collections](#)" to assist in deciding which collections need attention first. Seek advice from a conservator if needed.
- Attend to high value, vulnerable, sodden objects first.
- Air dry or freeze objects following the instructions outlined below.

5. Salvage methods - Air drying OR freezing

Air drying – without power

- In a clean, dry, well-ventilated area, spread collections out on tables lined with absorbent paper or cloth. Make sure the paper or cloth is changed regularly. If this is not done, there is a greater chance of mould activity and physical distortion.
- Some objects such as photographic prints and negatives can be dried on washing lines. This must be done with care.
- To maximise air movement, open windows and doors.
- For specific details on how to air dry different types of objects, please refer to our guide "[Salvaging water damaged collections](#)".

Air drying – with power

- Follow instructions above.
- Use fans to maximise air circulation and speed up drying. Keep them at a low speed to ensure materials are not blown around during the drying process.
- As high humidity will encourage mould growth, it is a good idea to use portable dehumidifiers. These can be hired from hire shops and a number of specialist equipment suppliers.
- **Do not use heaters or hair dryers** as they will encourage the growth of mould and can cause distortion of objects.

OR

Freezing

- Material identified as safe for freezing should be carefully wrapped and placed in a freezer. If there is going to be a delay of more than a day, do not seal plastic bags as this will encourage mould. Try to store in a cool, well-ventilated area until freezing occurs. If

you have a large number of objects requiring freezing, you may have to use a commercial freezing facility.

- **Basic freezing procedure:**

1. Place objects in freezer bags or garbage bags.
2. To prevent holes in packaging, always double bag. This is very important as holes will allow ice crystals to form inside the package.
3. Expel excess air.
4. Seal thoroughly with packaging tape (not masking tape).
5. Place in freezer in a manner that prevents damaging the packaging or the contents.
6. Leave for a minimum of two days or until you have enough time to treat the object.
7. When ready to work on the objects, remove from the freezer and place in a cool area to defrost. **Do not unwrap** until the package is completely defrosted. Depending on the size of the package, this may take several days.
8. Once defrosted, air dry object as described above.
9. For more detailed instructions on freezing please see our guide on "[Freezing water damaged and insect infested collections](#)" for more information.

Useful websites

- *AICCM Australian Institute for Conservation of Cultural Material* www.aiccm.org.au
(this website is also suitable for finding a conservator in private practice - <https://www.aiccm.org.au/need-a-conservator>)

The procedures described here have been used by State Library of Queensland in the care of its collections and are considered suitable by State Library as described; however, State Library will not be responsible for damage to your collections should damage result from the use of these procedures.

Need further information?

(07) 3840 7810 | <http://www.slq.qld.gov.au/preservation>



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