

Thank you for the opportunity to speak today.

## WHO I AM

My name is Cathryn and while I do not profess to being an expert, I do come here today with 10 years experience in the Plastic Manufacturing Industry including the use of recycled plastics as a raw ingredient.

My role to was to advise and educate stakeholders of major projects in the built environment. Hospitals, goals, education campus's. regard Australia Made plastics

The concern I wish to highlight today is the escape of microplastics from the proposed facility due to poor building design.

## ABOUT MICROPLASTICS

Firstly, what is a microplastic. Here are 3 examples. Powdered form, flakes and pellets. Powder is the product I have had experience with. Think table salt, but much, much light in weight. Due to plastics electrostatic properties it sticks to everything

Get some on your hands and try to brush off with you other hand. Now you have it on two hands. Flick the hair from your face and now its there as well. And so on.

## CAT IN THE HAT

The Analogy I like to use is "The Cat in the Hat comes Back"

The small red spot grows and grows and eventually covers the entire environment. Now the Cat had a secret weapon under his hat that , when unleashed, cleaned the environment back to pristine.

Humanity does not have such a tool, so we must stop the microplastics entering the environment before they can increase harm.

## PFAS

do studies are revealing, PFAS chemicals and viruses can adhere to it.

PFAS will be present in this proposed facility - arriving in plastic bottles that contained things like Sunscreen, shampoo, moisturiser etc. The washed out during the cleaning process.

## WIND

This is the 5 year wind rose for Moss Vale taken from the BOM station at Moss Vale, east of the site.

Every local here today can attest to the ferocity of our westerly winds - chasing washing that has been striped from lines not matter how many pegs used. People not living in the Highlands do not realise this. Before moving here I assumed the worst weather would come from the south.

## BUILDING DESIGN

The building design that concerns me so greatly is the 3 huge roller doors on the west facing side of the building.

Doors described as fast operating, but how fast is that?

With no details provided I timed my own garage door, a new door and certainly quick than the old.

17 seconds up

20 seconds down

But these proposed doors are 3 time the hight at around 7mts and probably about the same in width.

So lets say

50 seconds up

60 seconds down

But these doors also need to stay open for the huge truck to reverse in

That could take around 2 minutes

Total time of around 4 minutes for every open to close.

X 50 trucks a day in

X 50 trucks a day out

Approximately 6.6 hours a day theses doors will be exposing the receiving area to to the winds.

These are photos of the receiving areas of supposedly world class plastic recycling facilities.

Tomra - Norweign

Bell

## Casella Waste - USA

Please imagine our winds of up to and sometimes exceeding 100km. Commonly over 70km, howling through those large openings of around 50sqm each for over 6 hours a day.

The hurricane of plastic particles swirling around and blowing out the doors.

And that assumes the doors will close while the truck is unloading. If the doors remain open during unloading then the doors will be open for probably the entire time of receiving operation 7am - 6pm

Surely, building design fundamentals have major openings protected from prevailing wind and bad weather. commercial or residential.

This building design should be on a site with Southerly prevailing weather.

## GO EAST

So where will these particles go. EAST

What is on the east side of the site.

- 1) Moss Vale weather station
- 2) Kelly's Creek, catchment for Warragamba Dam
- 3) Wingecarribee Reservoir
- 4) Upper reaches of the Nepean River.

So 2 drinking water sources for the largest city in Australia will be polluted along with the water for Southern Highland community and Goulburn.

Really how many people <sup>of NSW</sup> do you want to poison!!

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What is not to the East,? you ask.

That would be a particulate monitoring station. The nearest is Bargo, to the North and Goulburn to the SW. Of no use.

Taking into account out brutally strong westerly winds combined with terrible building design. Massive escape of microplastics is inevitable.

The only conclusion that can be drawn

**THIS IS NOT THE RIGHT SITE**

**THIS IS NOT THE RIGHT BUILDING DESIGN.**

**STUDIES REFERRED TO WILL BE INCLUDED WITH  
MY WRITTEN SUBMISSION**