

A snowy outdoor scene with a red building on the right, a snow-covered vehicle, and several red flags marking a path in the snow. The background shows a forested hillside under a clear blue sky.

## **Electric clothes dryers: An underestimated source of microfiber pollution**

**Kirsten J. Kapp and Rachael Z. Miller  
Open Access: PLOS ONE, October 7, 2020**



# ROZALIA PROJECT FOR A CLEAN OCEAN







**MULTIPLE ANGLES**





**DERELICT FISHING GEAR**



**CONSUMER DEBRIS**



**MICROPLASTICS**







**SOURCES**

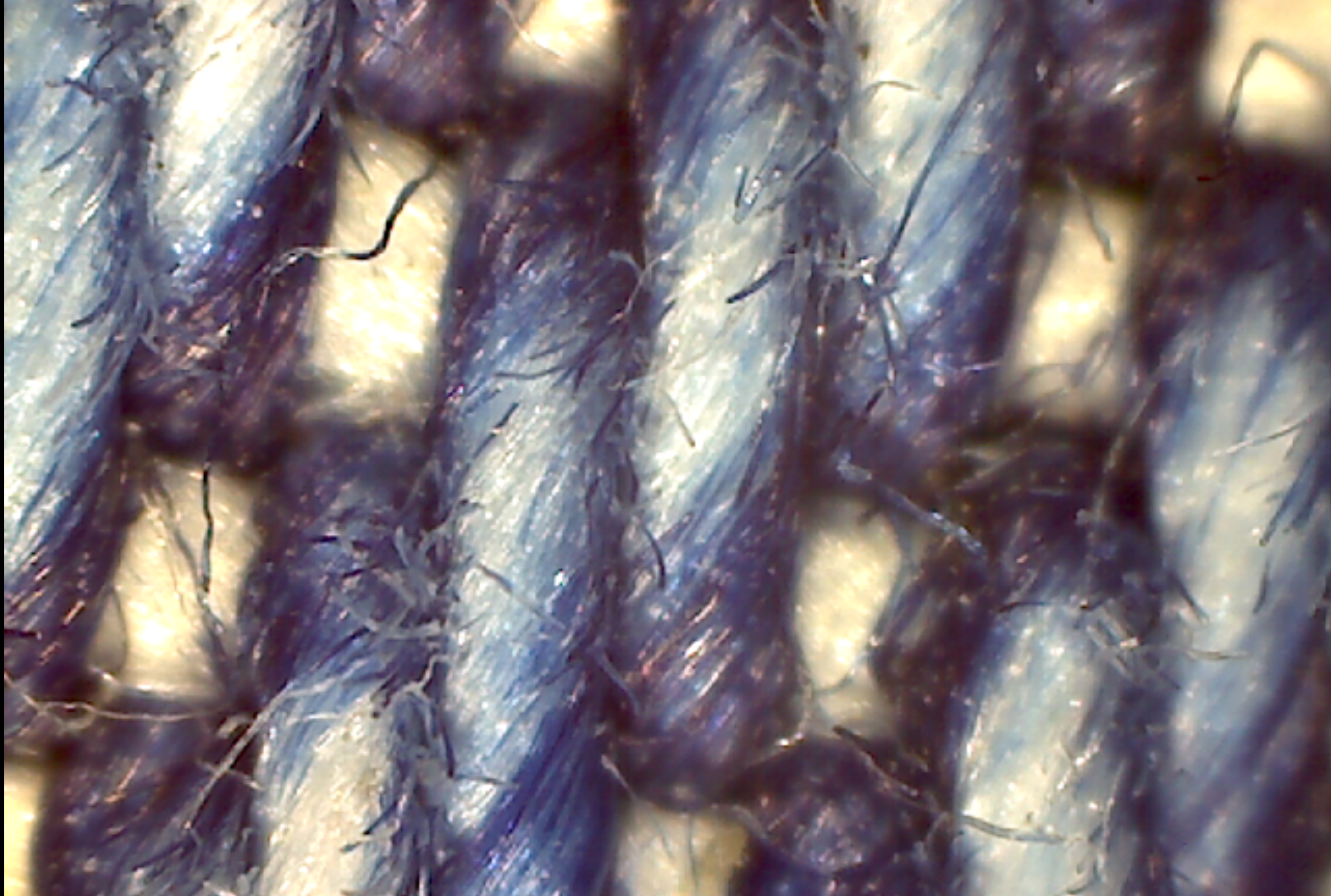
**MECHANISMS**

**TRANSPORT & SINKS**













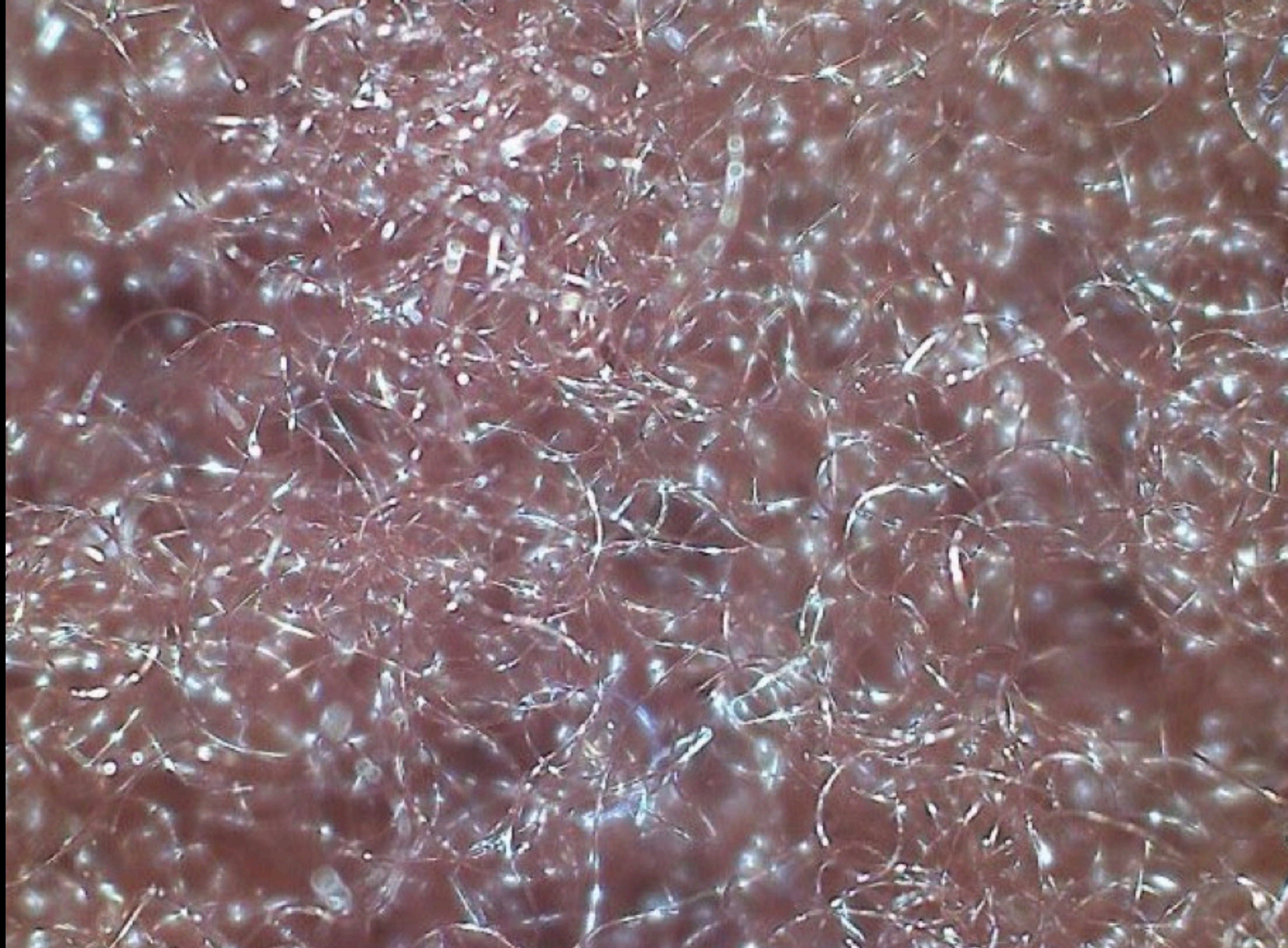








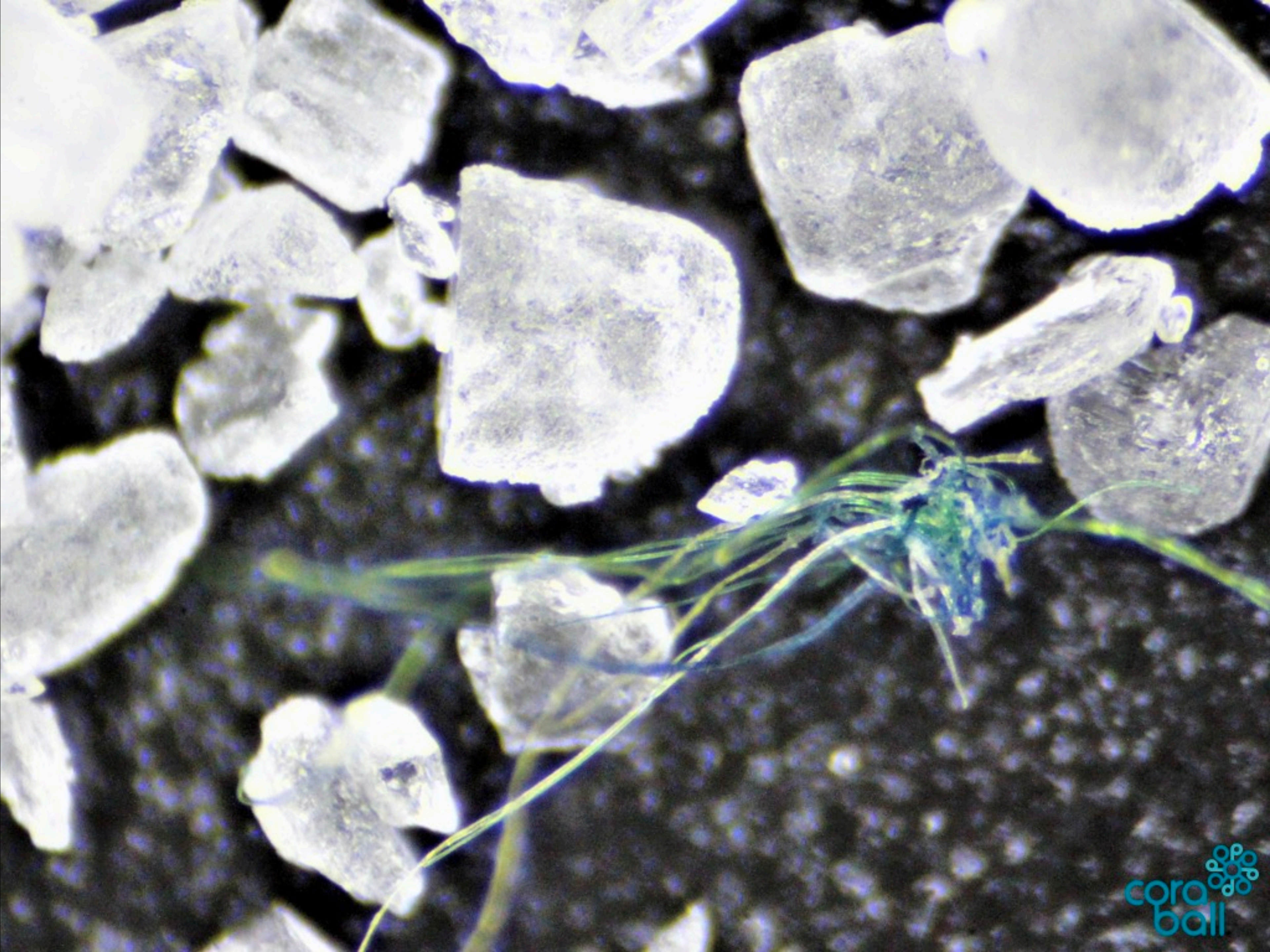




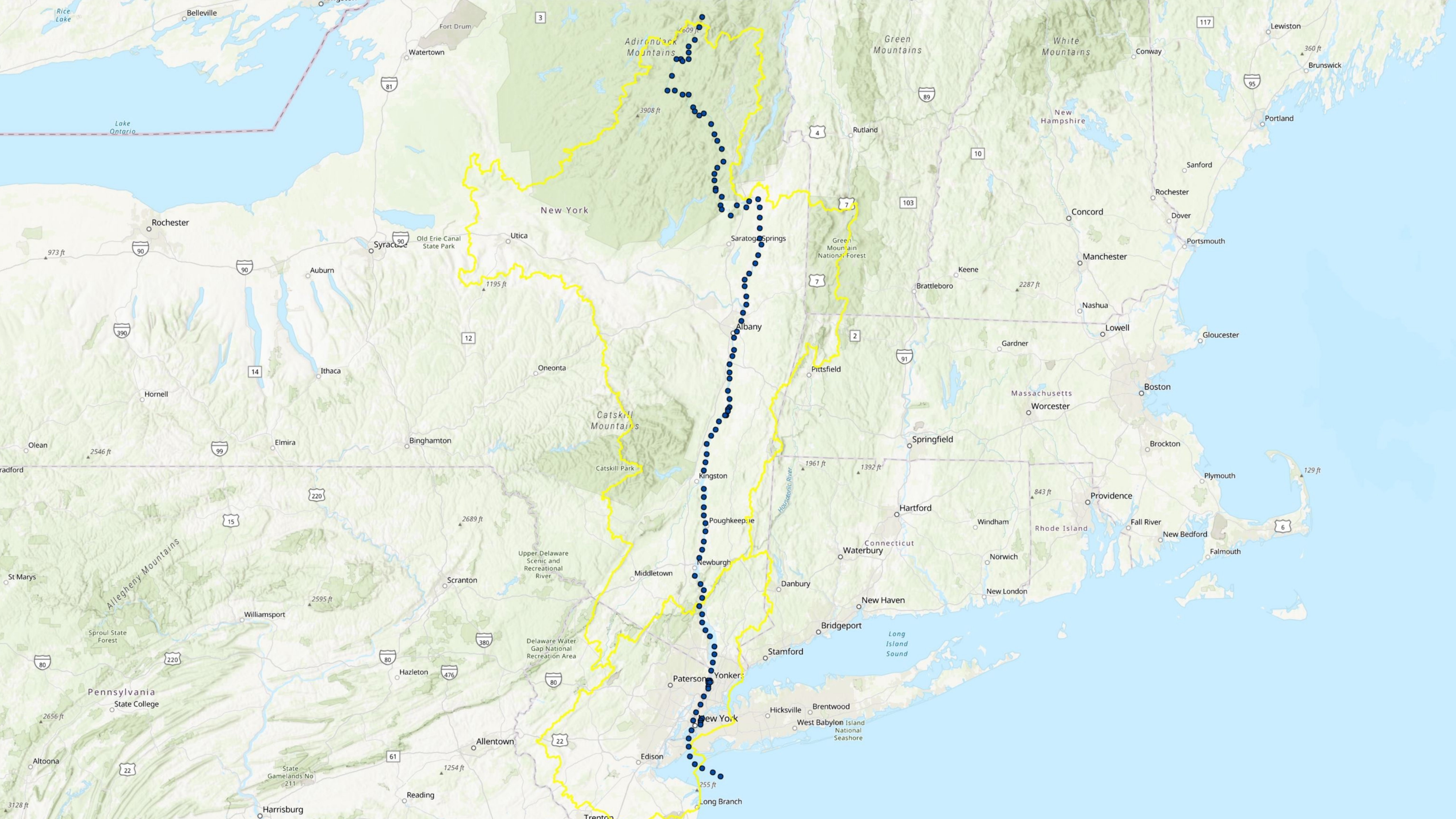




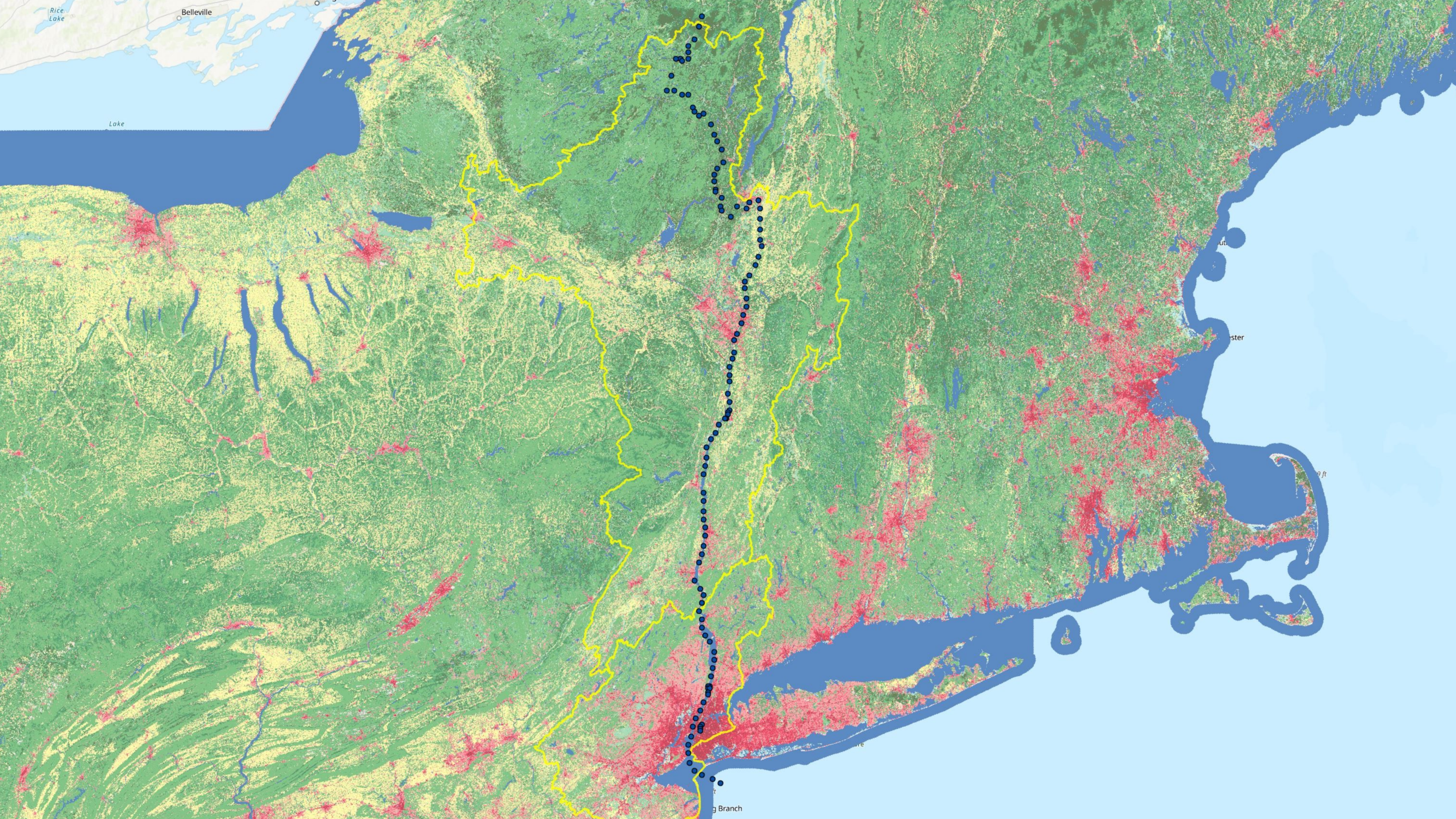












Rice Lake  
Belleville

Lake

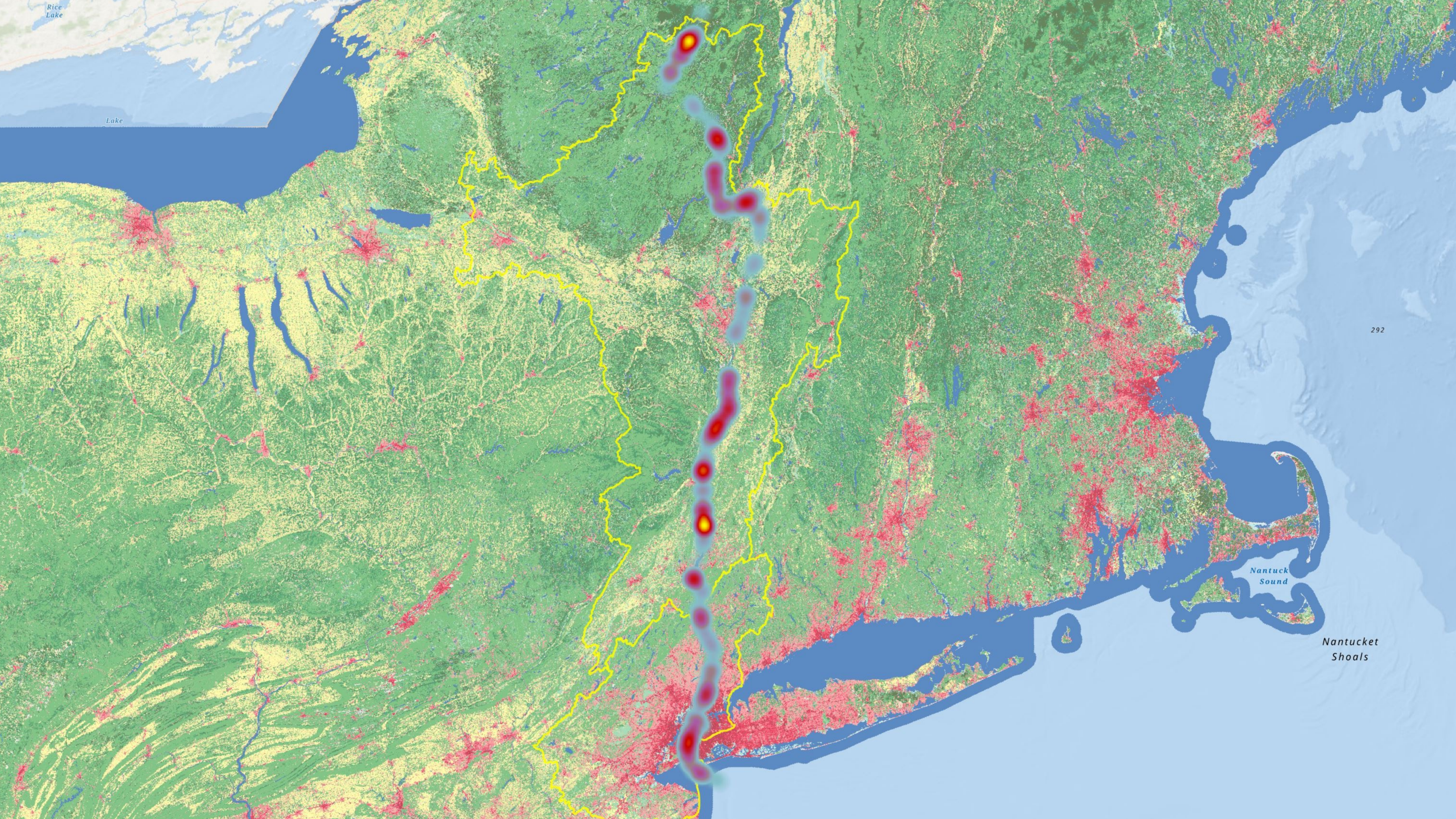
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Rice  
Lake

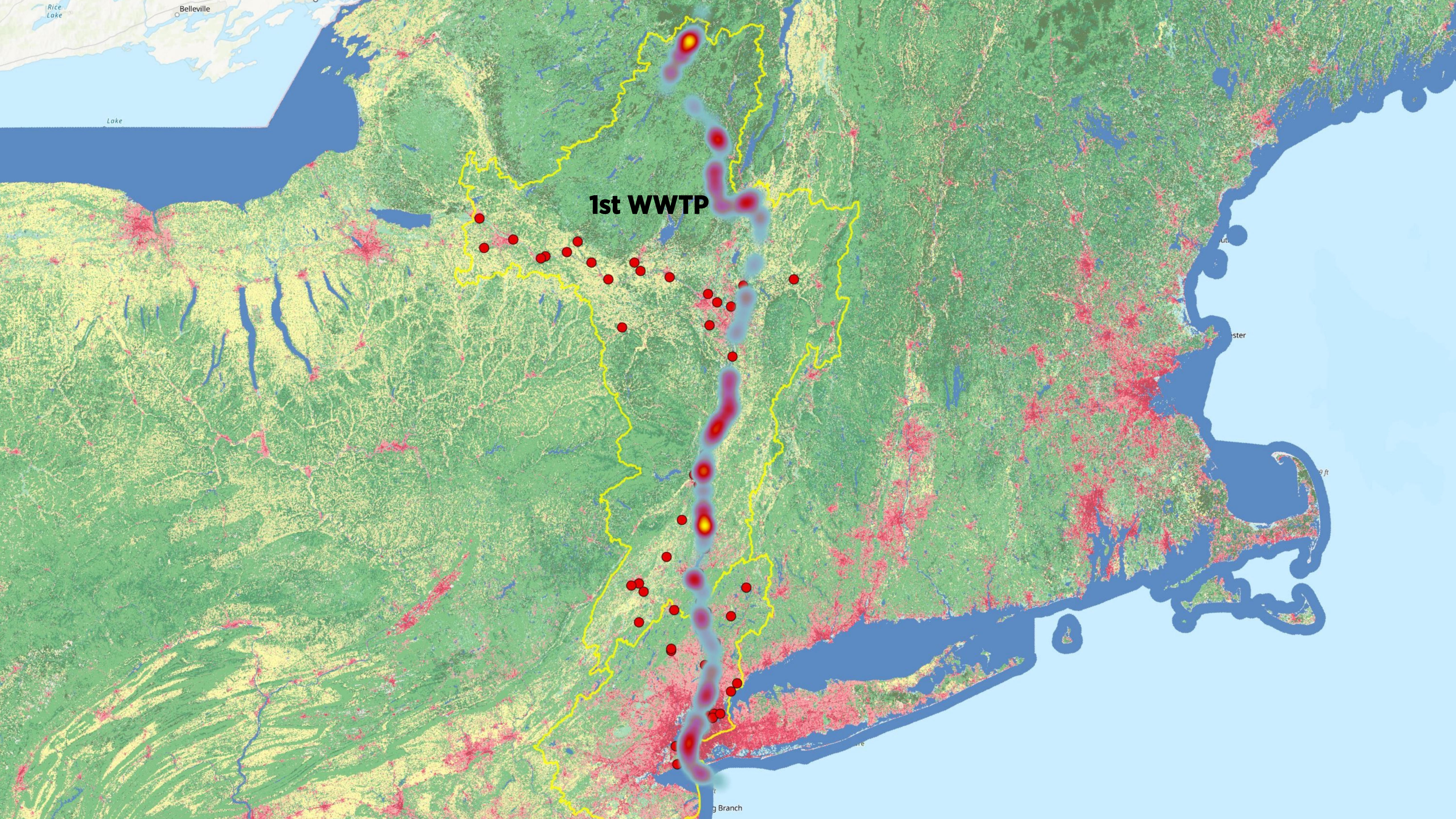
Lake

292

Nantuck  
Sound

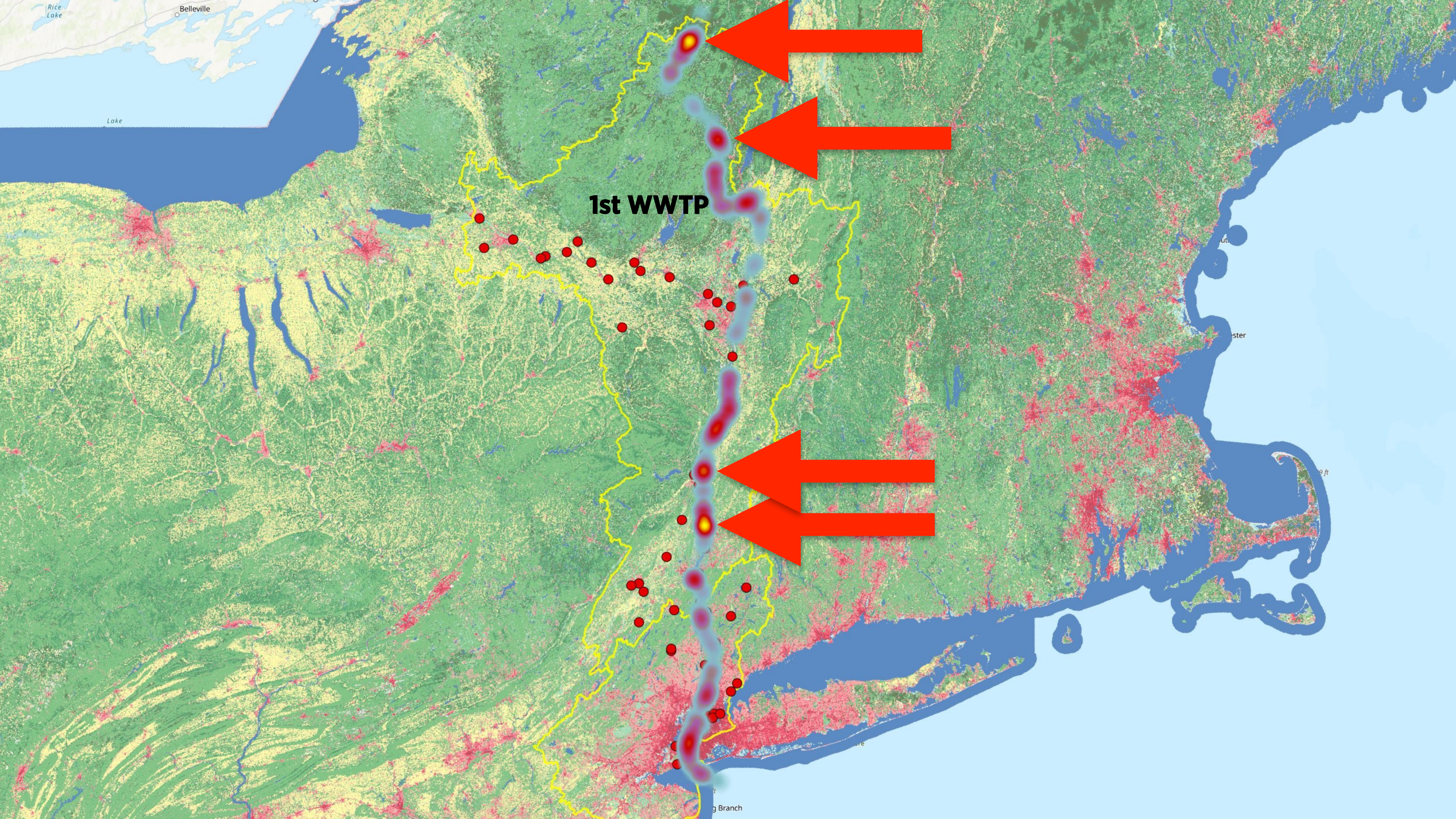
Nantucket  
Shoals





**1st WWTP**





**1st WWTP**

Rice Lake  
Belleville

Lake

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9 ft







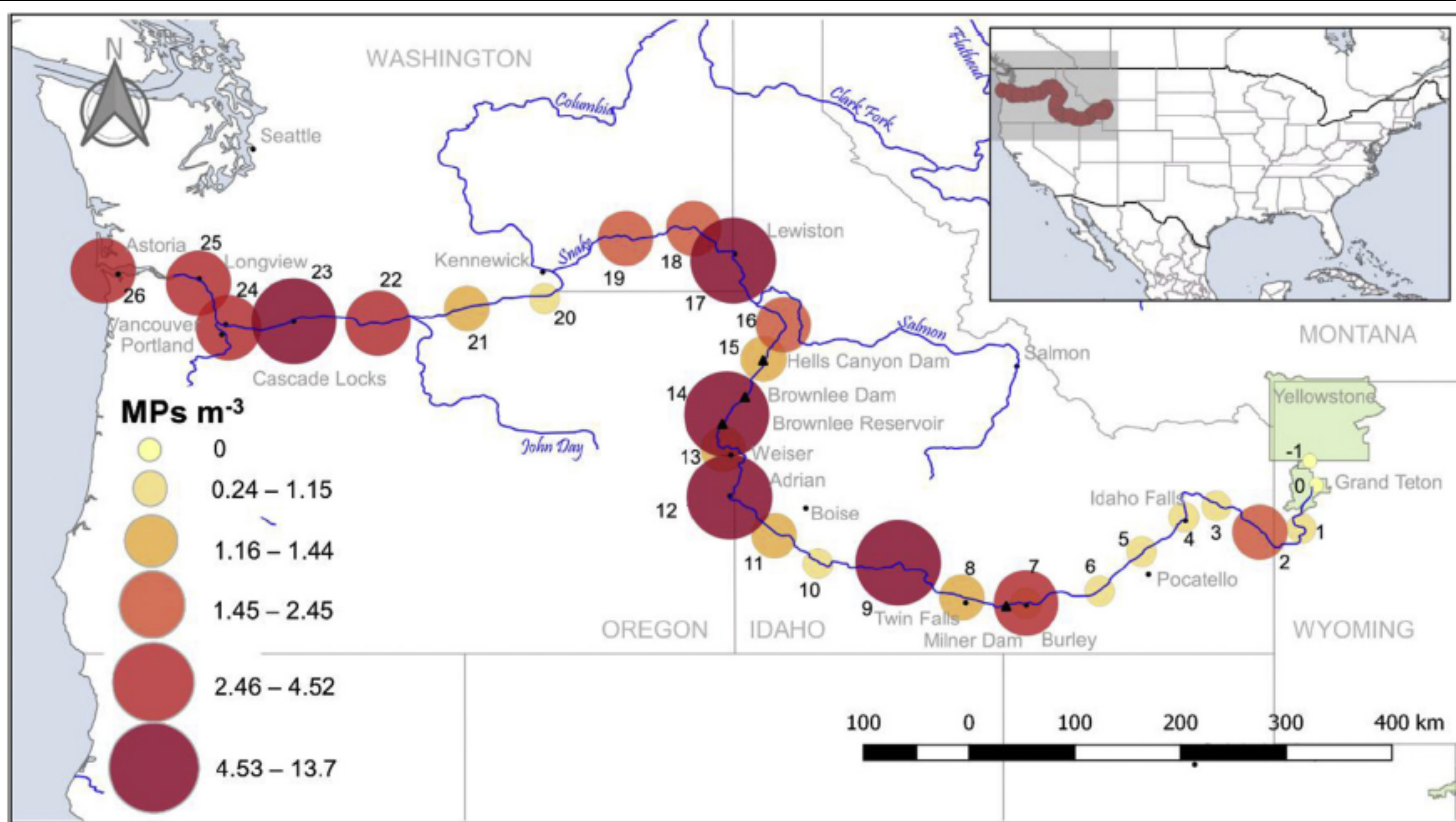
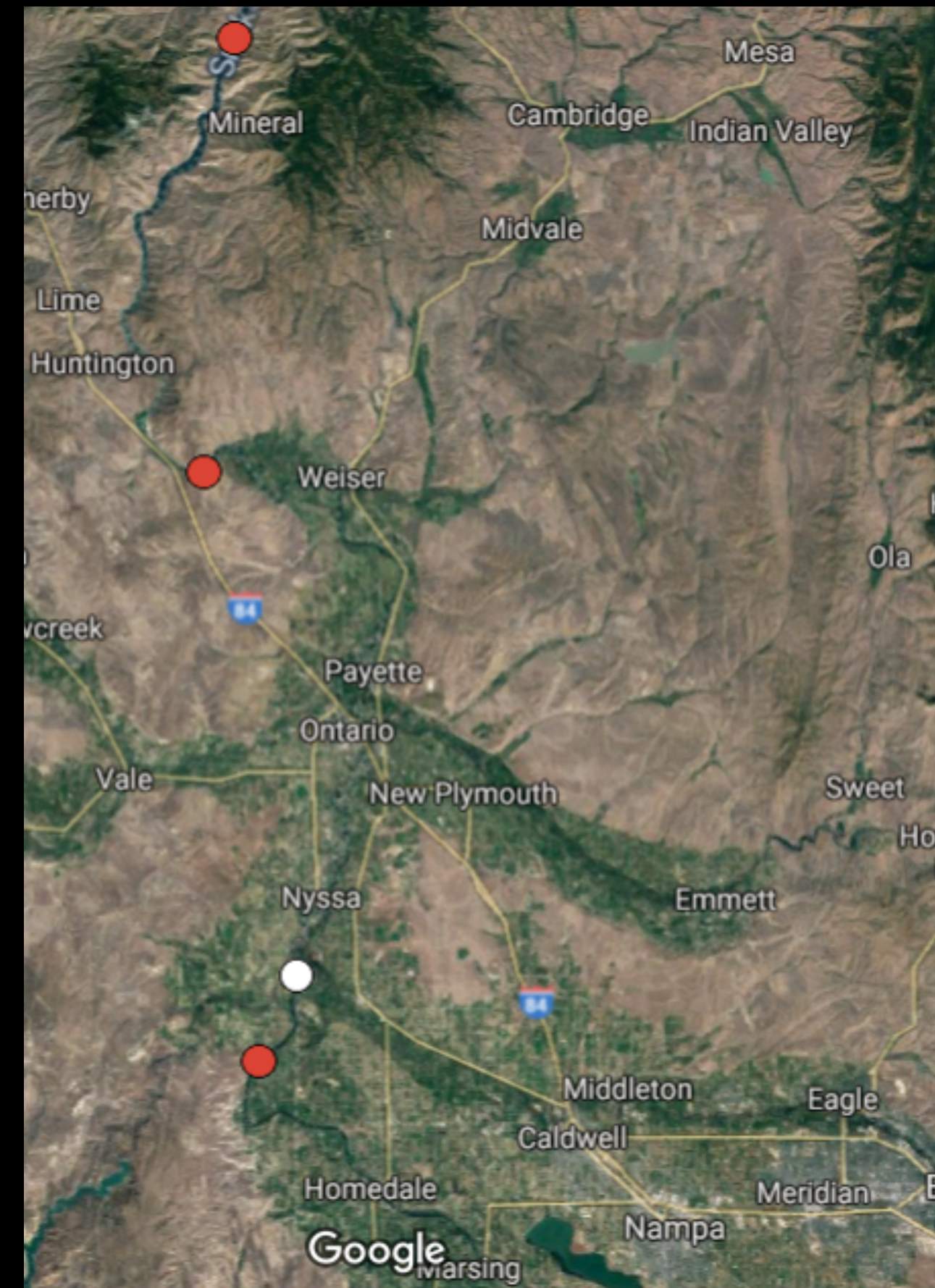


Fig. 4. Sampling location, site number, and MPs m<sup>-3</sup> for net samples. Sites 14 and 12 contained the highest MPs.

Kapp and Yeatman, 2018



















Test 2.42 Effluent

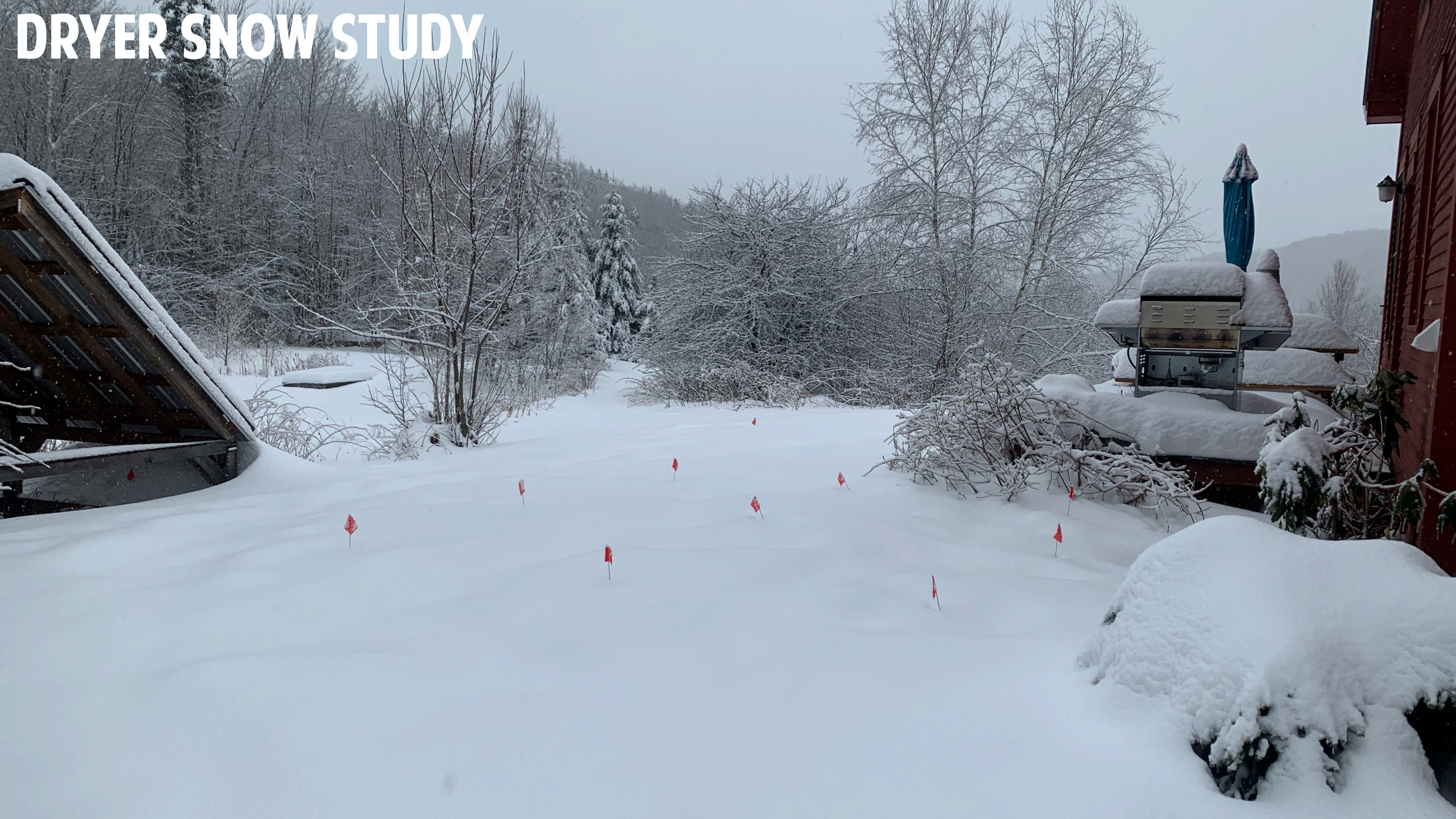
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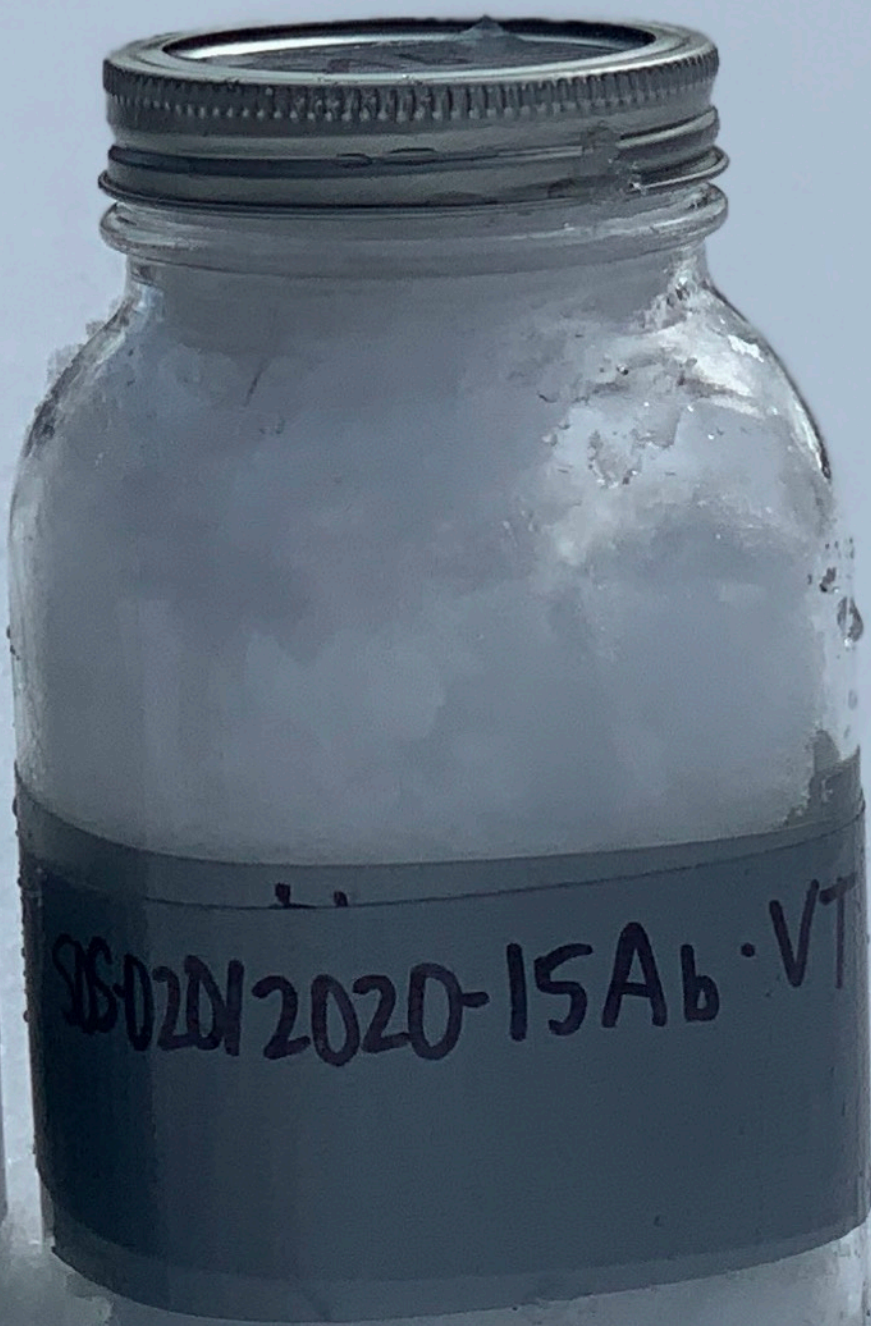
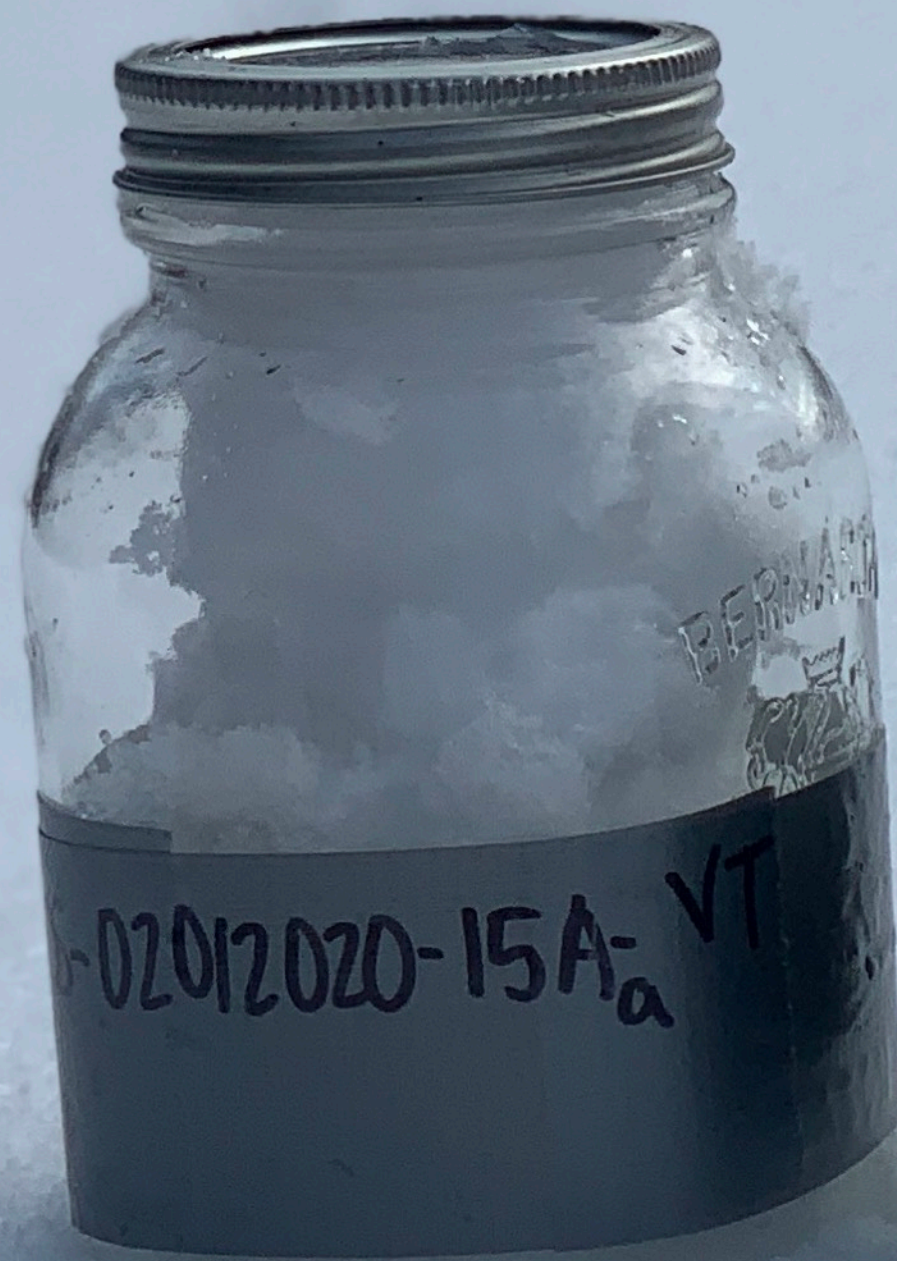
# DRYER SNOW STUDY





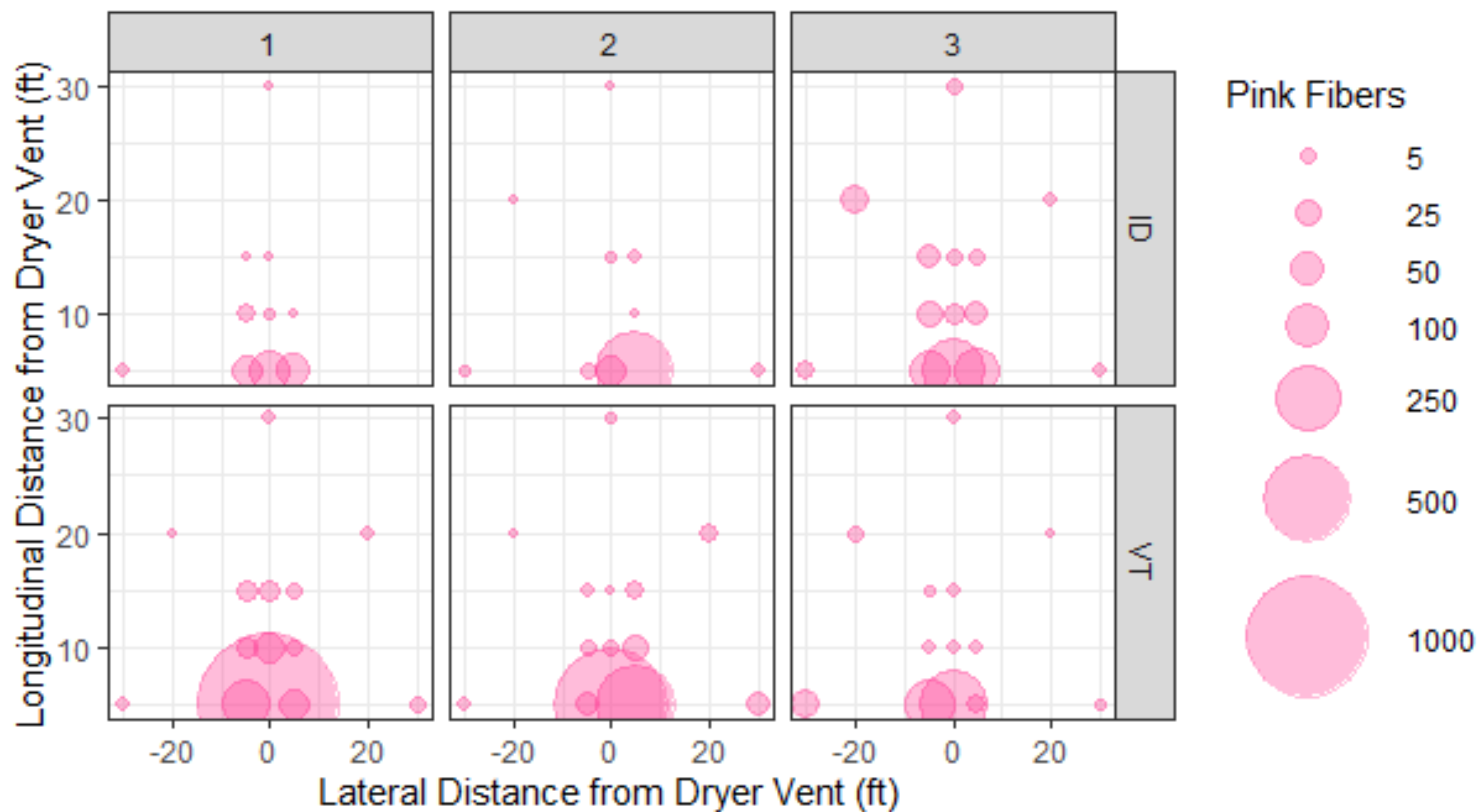






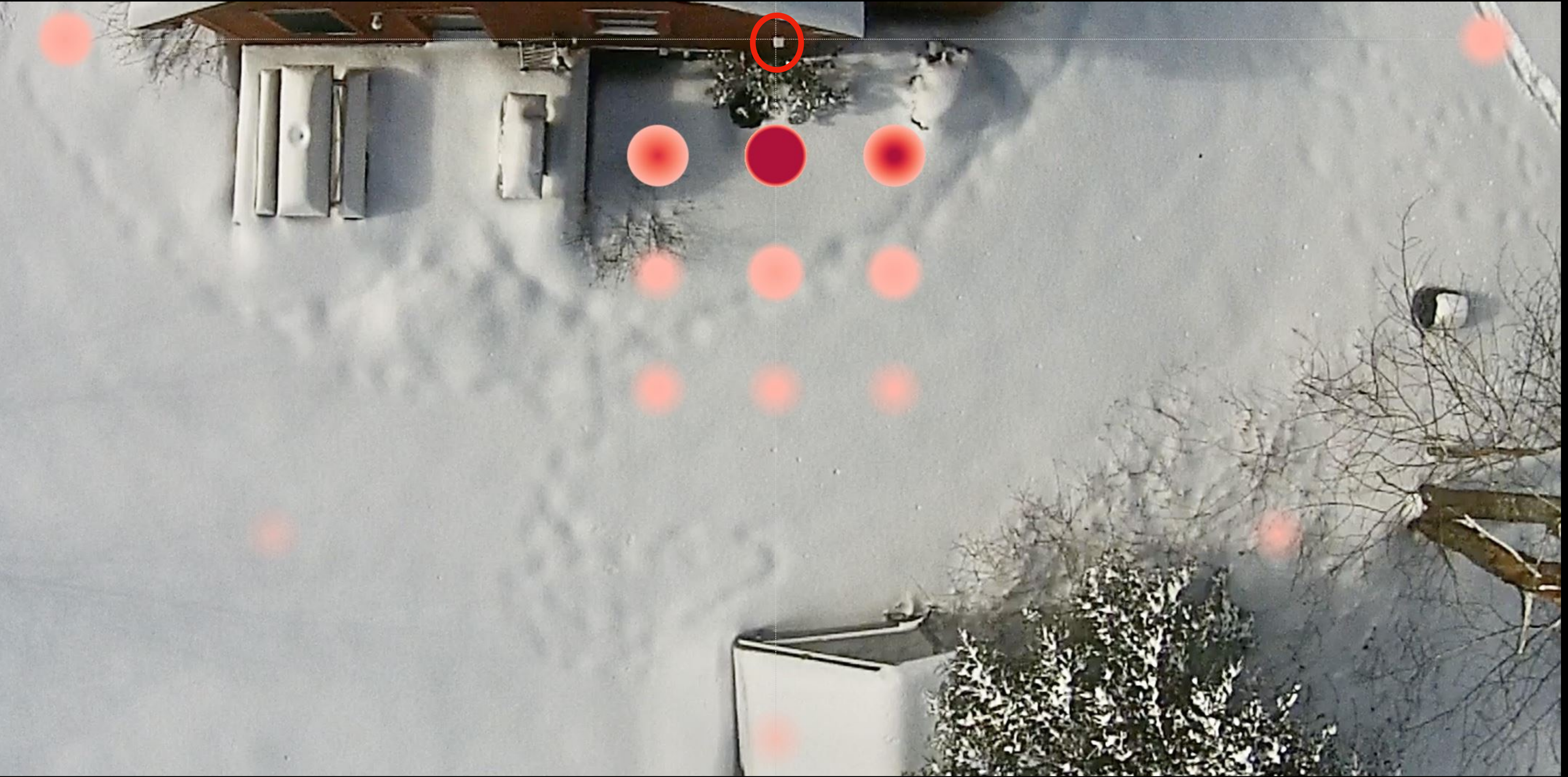


# Number and Distribution of Pink Polyester Fibers on Snow Surface

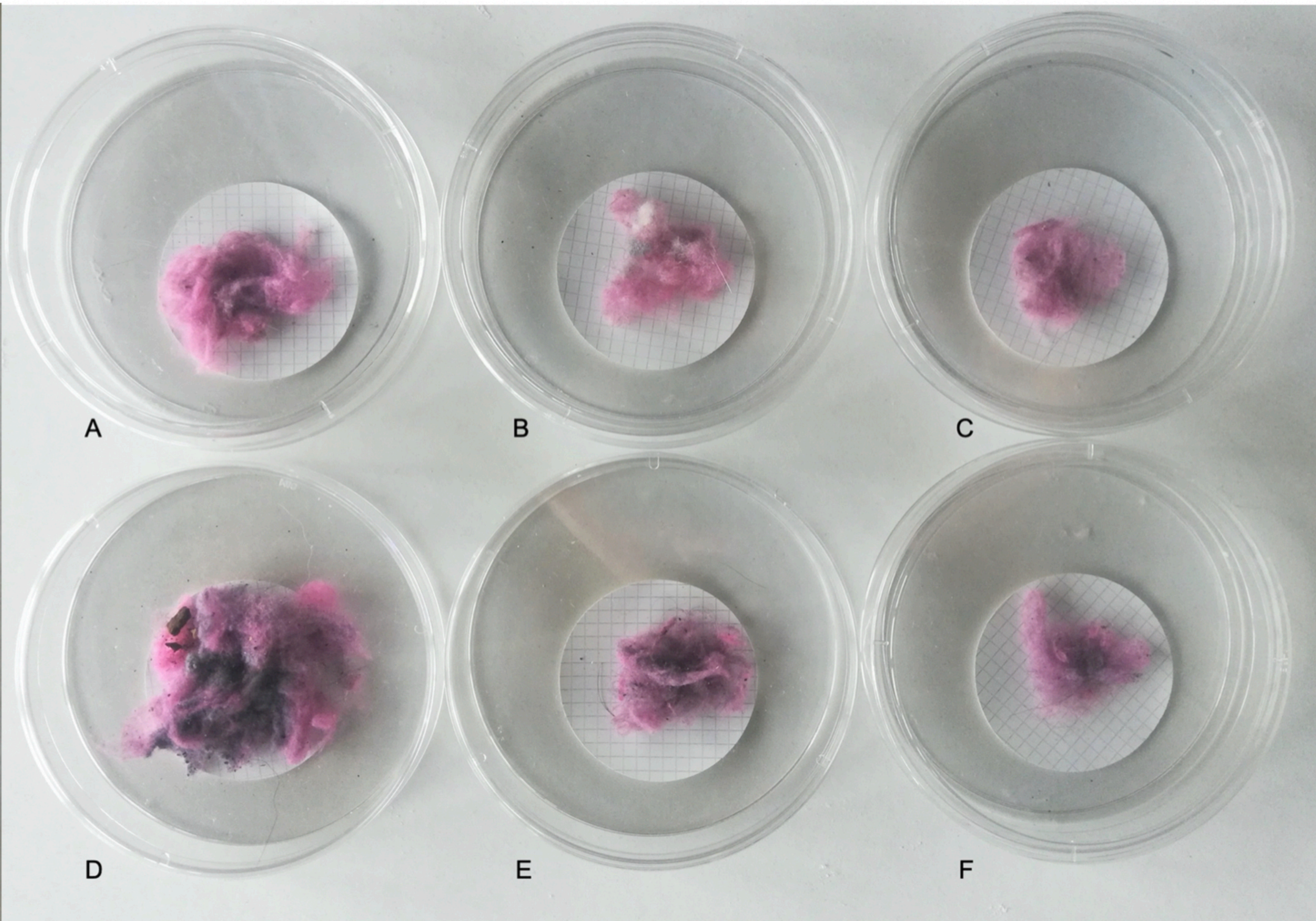




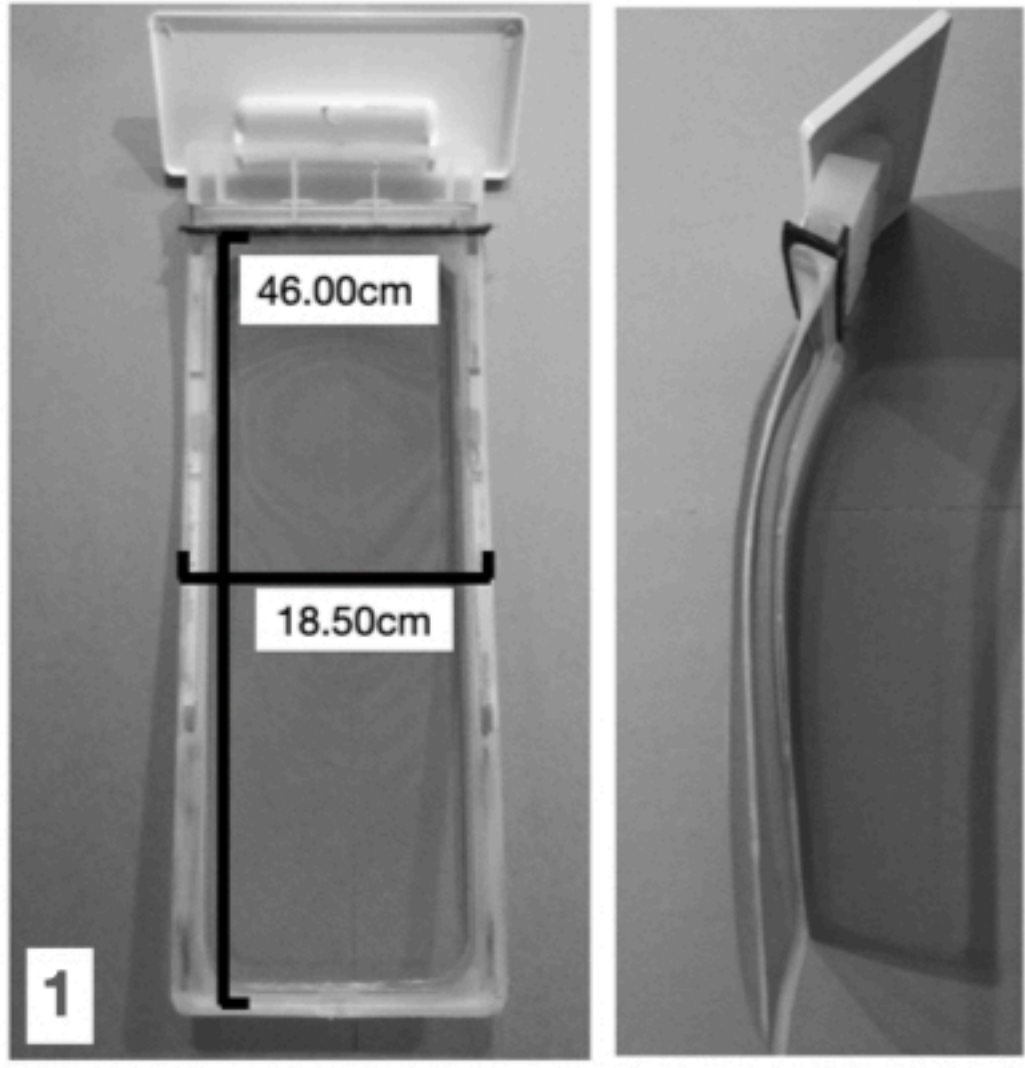
Dryer exhaust vent



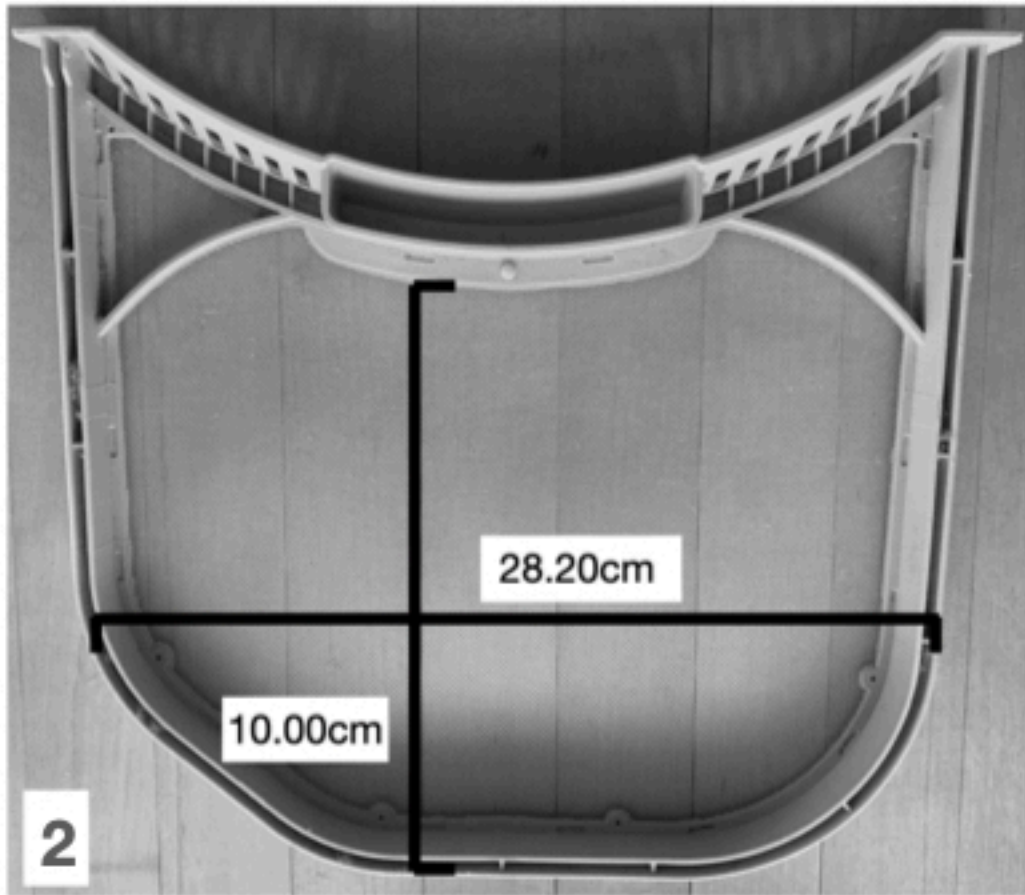




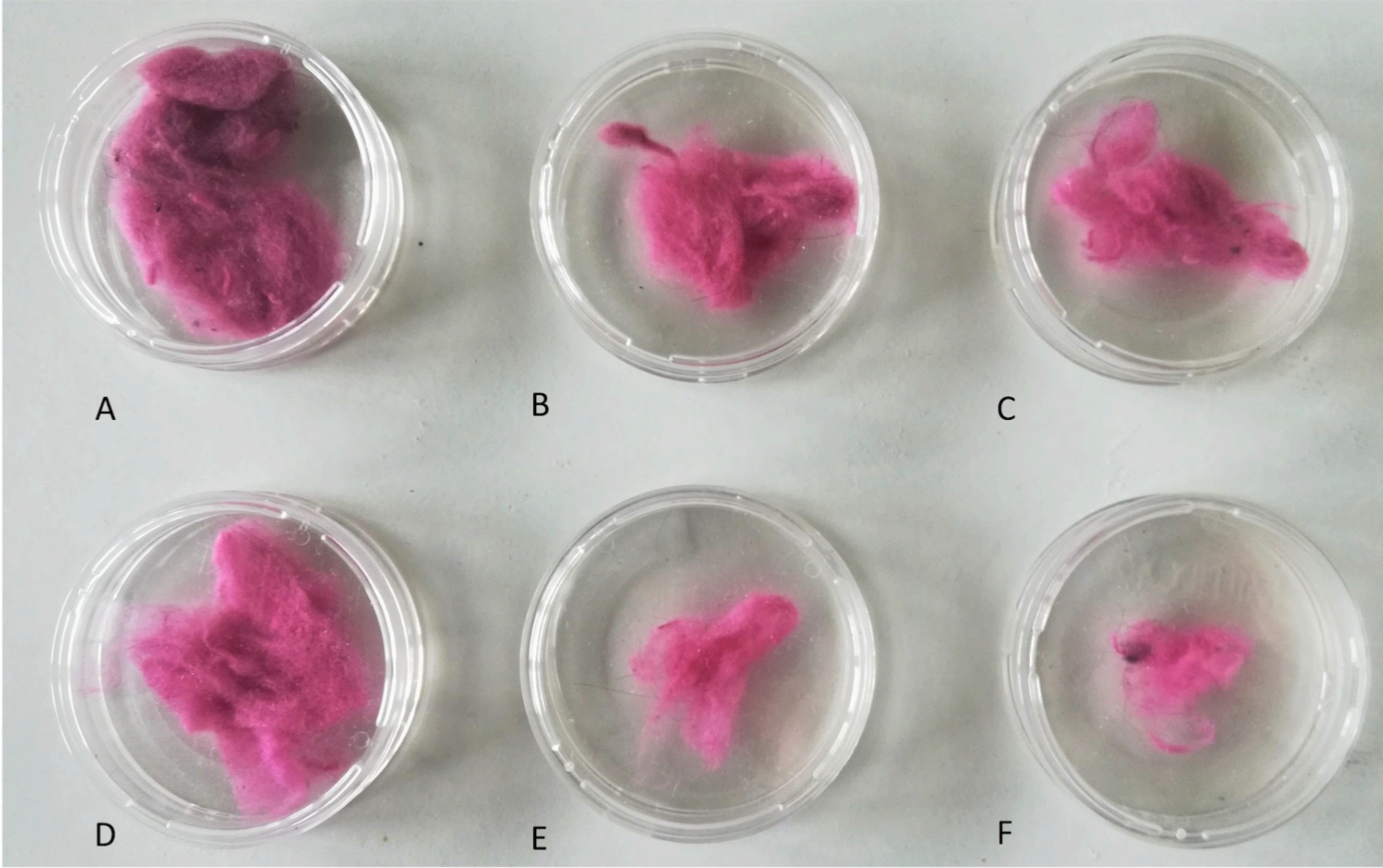




Lint trap: location 1

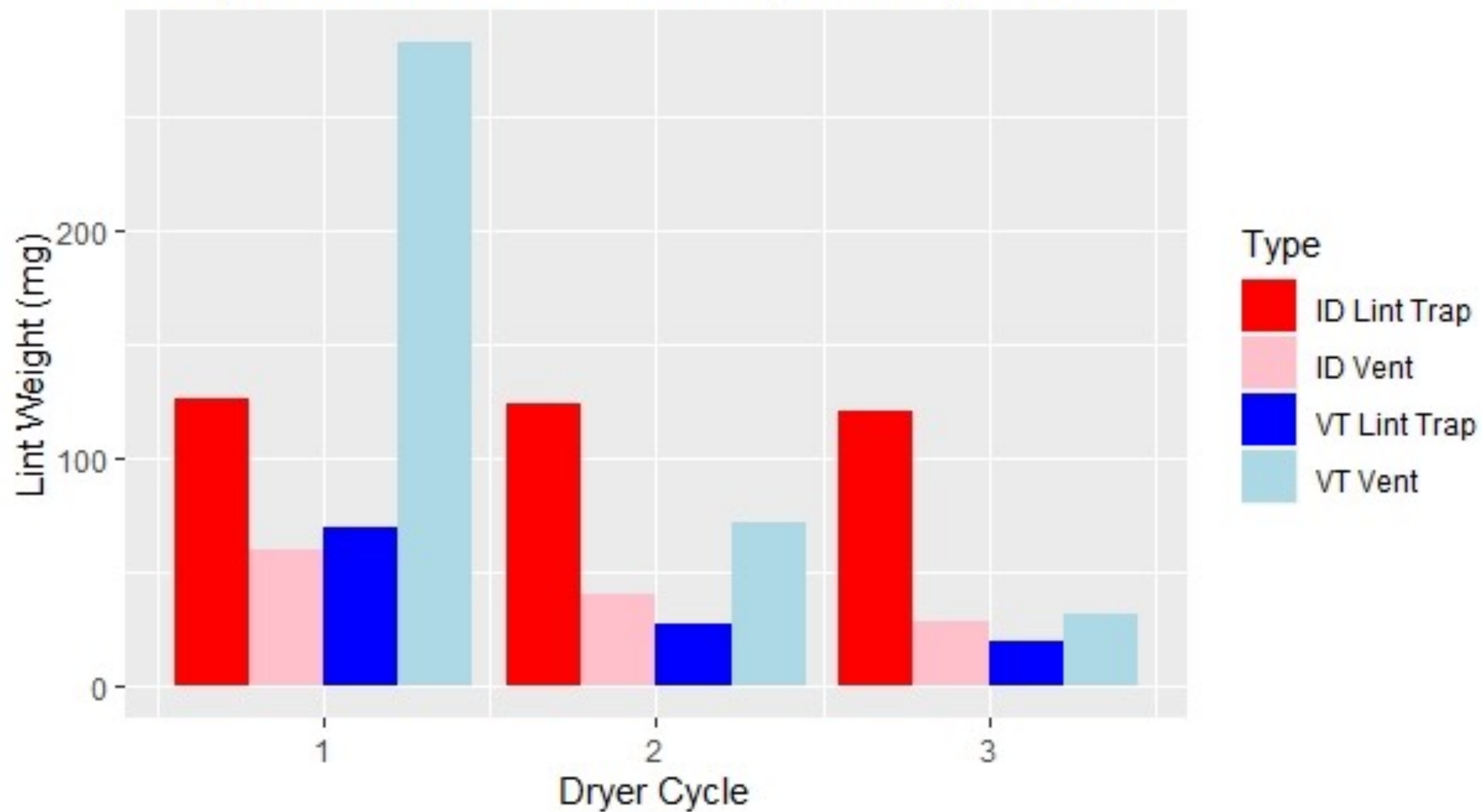


Lint trap: location 2





# Comparison of Fibers in Vent Trap and Dryer Exhaust









# Opportunities for innovation

## Textile Industry



chemists | extruders | weavers | designers



# Opportunities for innovation

Consumers

Cora Ball!...



# Opportunities for innovation

## Laundry Industry



washing | drying | detergent



# Opportunities for innovation

Wastewater Treatment

municipal | septic systems



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project



**THANK YOU!**

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