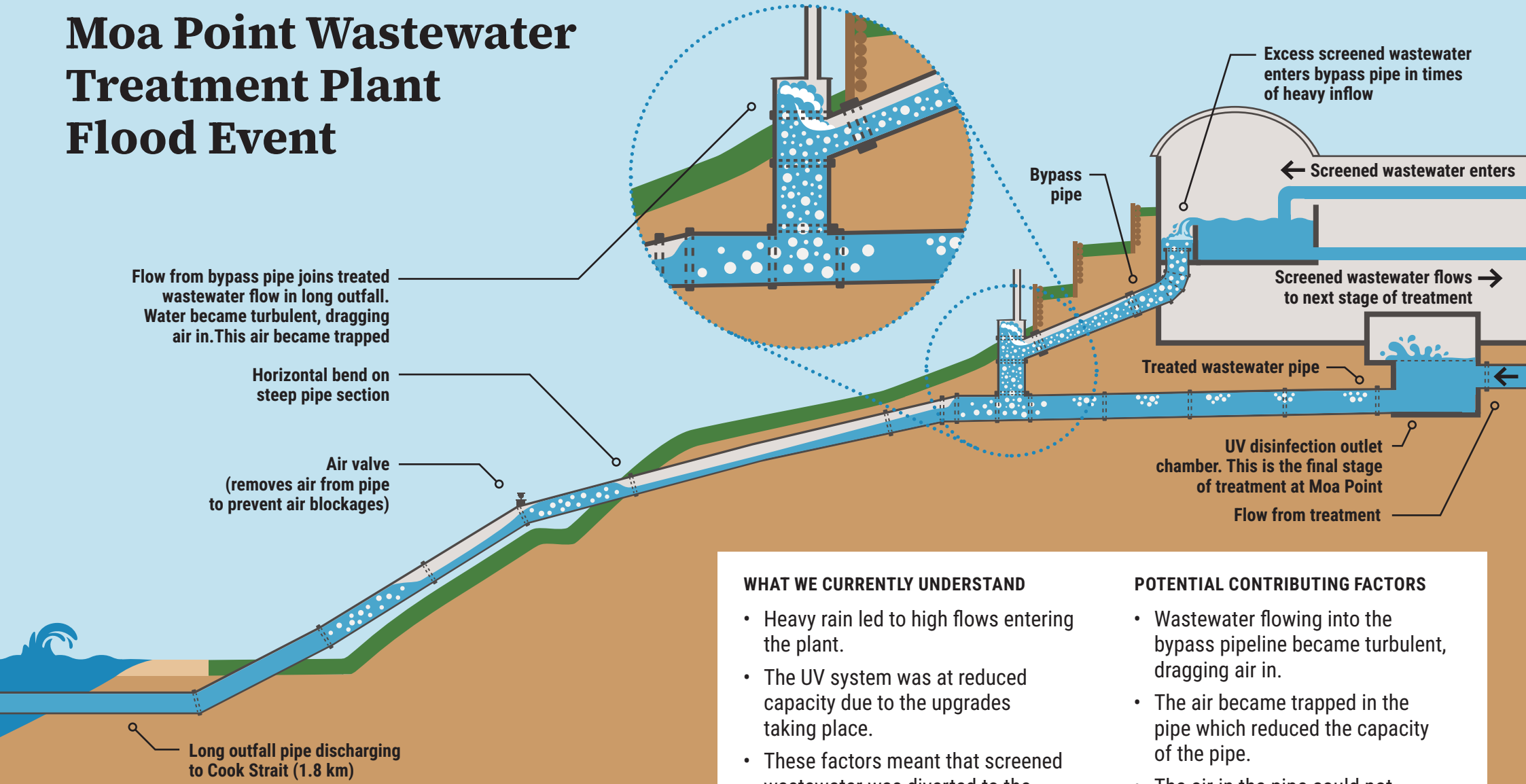
Moa Point Wastewater Treatment Plant Flood Event



Long Outfall: 1200 to 1400 mm (diameter varies)
Bypass Pipe: 900 mm diameter

SCHEMATIC VIEW. NOT TO SCALE

This summary schematic relates specifically to the hydraulics report, and does not draw conclusions on the wider investigation into cause. See Moa Point WWTP Flood Event Hydraulics Report for detail.

WHAT WE CURRENTLY UNDERSTAND

- Heavy rain led to high flows entering the plant.
- The UV system was at reduced capacity due to the upgrades taking place.
- These factors meant that screened wastewater was diverted to the bypass pipe, as designed.
- The fully treated wastewater did not flow through the UV channels to the long outfall as per normal, and treated wastewater flooded the plant.

POTENTIAL CONTRIBUTING FACTORS

- Wastewater flowing into the bypass pipeline became turbulent, dragging air in.
- The air became trapped in the pipe which reduced the capacity of the pipe.
- The air in the pipe could not vent effectively.
- Other contributing factors may be present in the long outfall. These are also being investigated.

Approx. ground level