The buried well isn’t their answer, but our penguins don’t quit just yet. They head to the greenhouse. Plants need water, too.

They decide to follow the pipes, hoping to find where all the station’s water ends up.

They are looking for a place to swim. Rosie and Gibbs wonder if there is water somewhere right below them...

Rosie and Gibbs are filled with excitement when they see what looks like a pool, until they realize the drilling uses extremely hot water!

IceCube Drill

Antarctic Temperatures

Sewer Outfall

So they set off to explore the South Pole station in search of a pool...

They are considering the worst water way to go somewhere. It’s clear that they should try to avoid any harmful ice.

It makes the best water way to go somewhere. It’s clear that they should try to avoid any harmful water.

IceCube Drill for Icecube’s Hot-Water Drill!

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Rosie's Discoveries

Never out of
All of the waste water at the pole, including water from the showers,
toilets, and kitchen drains, goes to the pond, not to the sea. There the
waste is frozen.

Hydroponic Farming
The garden at the South Pole has no soil; instead, they set the plant’s roots
into mineral-enriched water, which allows the plants to grow. Volunteers from
the station help grow things like greens or tomatoes that cannot be frozen and
shipped to the Pole like other foods.

IceCube drill
IceCube is a hot-water drill to make deep holes in the pure ice to build the
IceCube detector. After the holes were made, the Dons were stringed on the
rope down to the bottom of the water-filled holes.

Antarctic Temperatures

It turns out that Antarctica is not only the coldest place on earth, but also
the driest. No wonder we had a hard time finding water. Temperatures can range
anywhere from -83°C to -23°C. Wow!

Water at the South Pole Station
First, I was surprised not to find water at the station, but it makes sense now.
After all, we’re living in a desert in a frozen desert! Even in Summer,
everything is frozen. Making ice and keeping it liquid is not an easy thing!
I’ve learned that they use the heat provided by the electric power generator
plant to melt the ice for the water used at the station. The water is actually
too pure for the people to drink, so they add minerals to it. How cool is that!