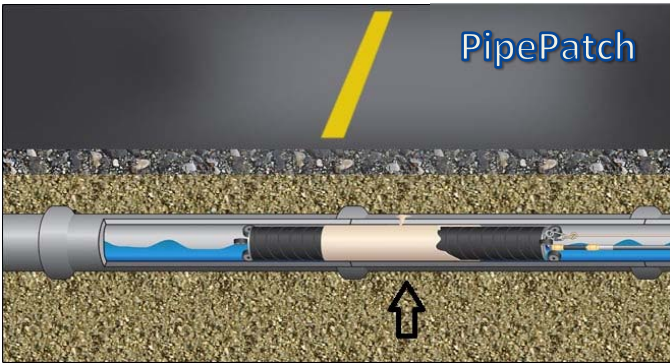


~West Bay Sanitary District using the latest and most cost effective technologies~



In 2010 West Bay Sanitary District began using a trenchless pipe repair method called "Pipe Patch". Pipe Patch allows us to repair less-severe defects in our sewer system without having to use more costly and time consuming methods; namely, conventional open-trench.



West Bay Crews perform Open Trench

So how does Pipe Patch work? It utilizes a two part epoxy resin, a fiberglass mat, a flow-thru pneumatic plug, (known as a packer), and air to inflate the plug. The resin is spread over the mat. The epoxy-saturated fiberglass mat is wrapped around the flow-thru plug, inserted into the sewer line and pulled into place by rope. The plug is then inflated by an air compressor and the repair is under way. It works much like a stint in the artery of a human, adding support to the wall of the pipe from the interior and sealing off joints and cracks from roots and groundwater intrusion.



Locate the leak using sewer camera.

Prepare the resin and wrap the patch around the flow thru packer and secure.

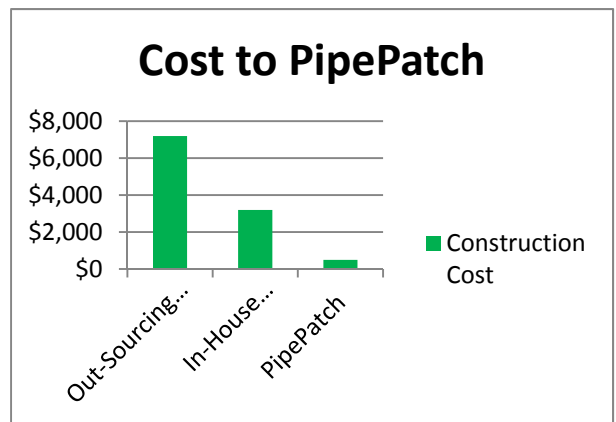
Push the packer into the sewer line to the area to be repaired. When the resin has set - the repair is complete.

Now with the patch in place it only takes 2 hours for the resin to harden and the repair to be complete.

Benefits of trenchless repair include:

- Not having a full construction crew on the road, breaking ground, and running loud equipment
- Repairs are completed within a few hours, rather than a few days
- Over 80% more cost effective than Open Trenching
- Safer job sites; OSHA estimates that 63 workers die in trenching accidents each year
- Environmentally sound, since the resin used is odorless and non- flammable
- No Air pollution

District Staff has become so proficient at such repairs, it costs the District approximately \$500 per repair versus \$3,200 for conventional open trench in-house. Outsourcing open trench repairs could reach \$7,200.



So look for our crews, in your neighborhood, using these latest, most cost effective technologies... and remember to **Call Us First** if you experience plumbing problems at **(650) 321-0384**.