

the Water Brothers **EPISODE GUIDE QUESTIONS**

THE BIG LEAK

1. Name one major reason why municipalities are having trouble fixing water infrastructure?
2. How much treated water is lost to leaky pipes each year in North America?
3. How many water main breaks occur across North America each year?
4. What was the name of the contaminant found in Flint's drinking water?
5. What was clogging the first sewer line the team investigated?
6. What is one expensive consequence that can occur when our sewer lines get clogged?
7. Why are sanitary/baby wipes so problematic for wastewater systems?
8. Name the three solutions for the sanitary wipe problem?
9. What are the two problematic items Alex finds in the old sewer?
10. What does CSO stand for?
11. On average, how much raw sewage enters Lake Ontario from the City of Toronto each year?
12. What are two solutions that can help reduce sewage entering our lakes and rivers?
13. What is one way that cities can fix the aging infrastructure problem?

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THE BIG LEAK

- 1. Name one major reason why municipalities are having trouble fixing water infrastructure?**
They are short on funds, don't have enough money, limited financial resources
- 2. How much treated water is lost to leaky pipes each year in North America?** 8 trillion litres of water
- 3. How many water main breaks occur across North America each year?** Over 300,000
- 4. What was the name of the contaminant found in Flint's drinking water?** Lead
- 5. What was clogging the first sewer line the team investigated?** The first sewer was blocked by blobs/balls of cooking fats, oil and grease
- 6. What is one expensive consequence that can occur when our sewer lines get clogged?**
Sewers can back up and flood peoples basements
- 7. Why are sanitary/baby wipes so problematic for wastewater systems?** Wipes do not biodegrade because they are made of plastic
- 8. Name the three solutions for the sanitary wipe problem?** Don't buy wipes, only dispose of them in the garbage, change labeling laws so they cannot be promoted as "flushable"
- 9. What are the two problematic items Alex finds in the old sewer?** Tampon applicators and pills/medicine
- 10. What does CSO stand for?** Combined Sewer Overflow
- 11. On average, how much raw sewage enters Lake Ontario from the City of Toronto each year?**
Between 3 and 4 billion litres of sewage
- 12. What are two solutions that can help reduce sewage entering our lakes and rivers?**
Rain barrels, green roofs, permeable surfaces/concrete
- 13. What is one way that cities can fix the aging infrastructure problem?** By increasing the cost of water services