

Oil Sands & Mercury Contamination: Concentration



<https://www.youtube.com/watch?v=o6D2qqwQLdQ>

1. Mercury (Hg) is a toxic heavy metal that is a part of industrial waste. As a metal, what properties do we expect elemental mercury to have?

2. Mercury has a unique characteristic that sets it apart from other metals, what is this characteristic?

3. The chemical mentioned in the video was called **methylmercury**, this chemical is a combination of carbon, hydrogen and mercury. Which of the following is methylmercury an example of?

An Element

A Compound

A Physical Mixture

4. From 1962 to 1970 the Dryden chemical company poisoned a river system in Ontario by dumping nine tonnes of mercury into it. Mercury concentrations were measured in three rivers in the same area. If the toxicity threshold for mercury concentration in water is 0.002 ppm which of these rivers has toxic levels of mercury?

River	Mercury Concentration
Vermillion	0.0002 %
Wabigoon	0.0042 g/L
English	0.018 ppm

The _____ river(s) has
(have) toxic levels of mercury.