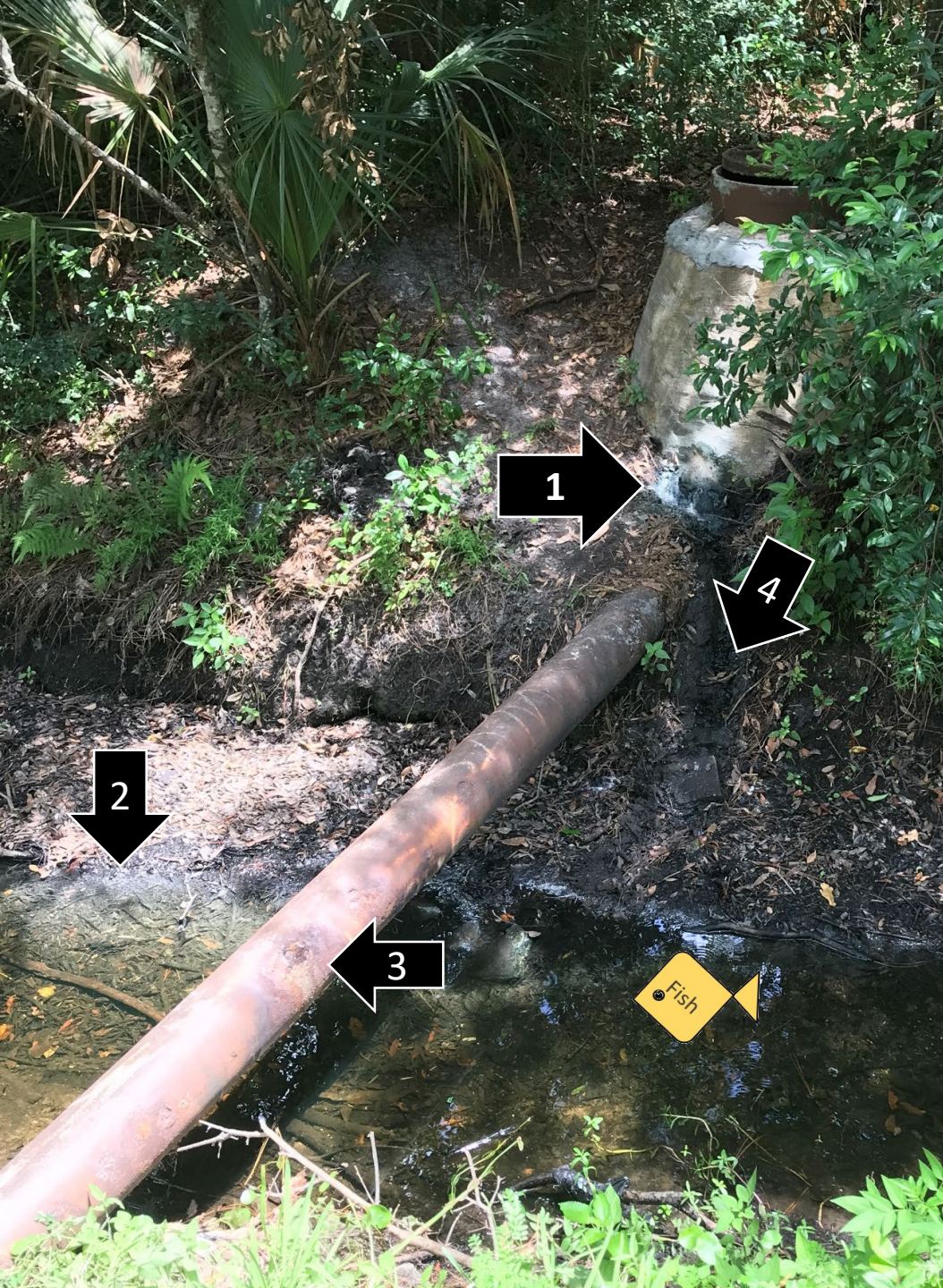


Observable signs of small sewage leaks

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for permission to use these images as training.*



Four observable signs of problems

- This is a metal sewer line crossing the creek. On the other side is a raised manhole.
- White sulfur bacteria is growing:
 - at the base of the concrete (1) supporting the top of the manhole.
 - And in the creek along the slow moving edges (2) and was visible a long way downstream.
- The pipe is “tuberculated” meaning, rusted through from corrosive sewage gasses, and dripping into the creek (3).
- And a seep runs down the bank from the base of the sewer manhole (4).
- Presence of minnows is not a sign all is clear.



Leaking tuberculated pipe

A close up of the pipe where it is “tuberculated” meaning, rusted through from corrosive sewage gasses, and dripping into the creek (3).

Is that snow?

- Close up of the white sulfur bacteria growing at the base of the concrete (1) supporting the top of the manhole



A closer inspection

- Close-up of sewage leaking at base of concrete.



Fixed

- White lime sprinkled all over the area where sewage was on the ground. (1)
- Clamp on pipe to seal off the hole until the pipe can be replaced or lined. (2)
- The manhole filled up and leaked out because there was a blockage of the pipe downstream. Obstruction was removed.

