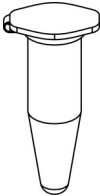
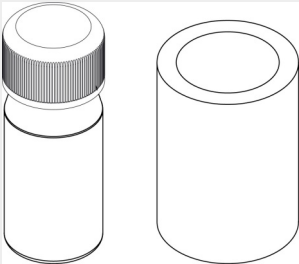
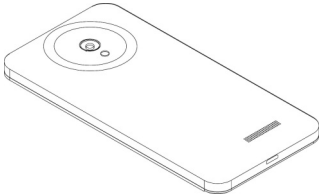

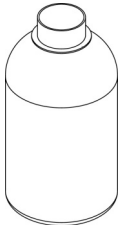
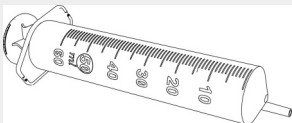
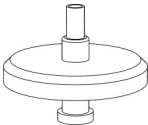
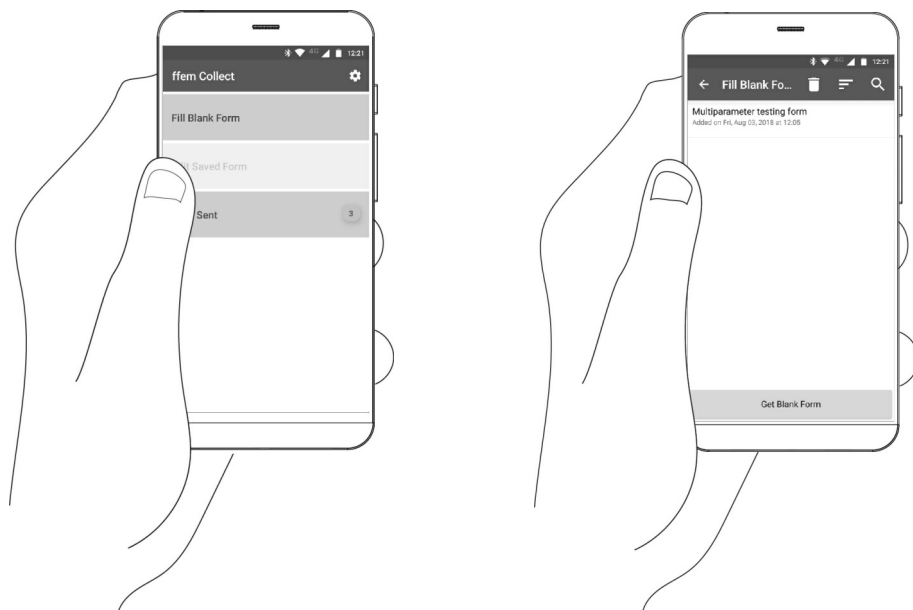


Things You Will Need

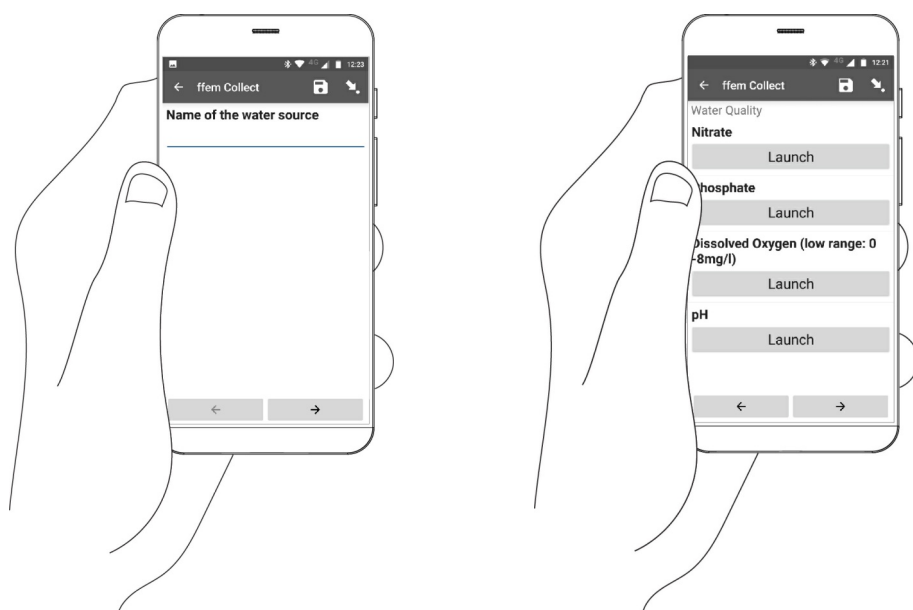
1	One vial of Dissolved Oxygen Reagent (refer to section on reagent preparation below)	
3	A Cuvette and pipe	
4	A smartphone with the ffem apps installed, and an alignment sticker	
5	A 10ml measuring tube	
6	A sample of water to test	
7	15 ml Syringe	
8	Syringe filter	

## Steps

1. Open the ffem Collect app, and select "Fill Blank Form". Select the form you need to fill out.



2. Answer all the questions in the form, swiping left to go to the next questions. When you reach the water quality questions, launch the test for Phosphate

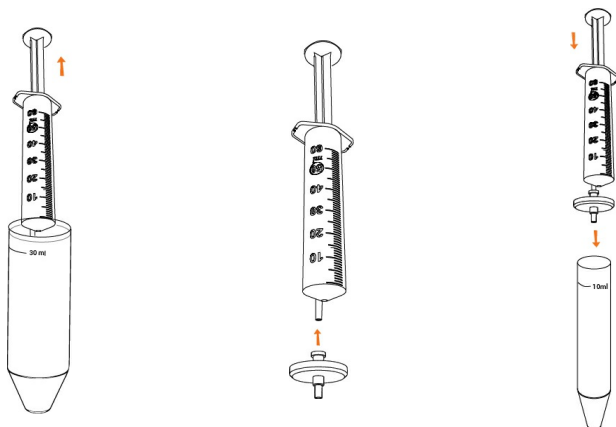


3. Rinse the empty cuvette and measuring tube twice with the sample to remove any traces of previous solutions.



## Dissolved Oxygen

4. Using the syringe, draw out a little over 10 ml of the sample. Then, attach the syringe filter to the tip of the syringe and Filter 10ml of the sample into the measuring tube.



5. Open the vial of Phosphate reagent A and add it to the measured sample. Close the lid of the measuring tube and shake it to ensure proper mixing of the reagent and sample.



6. Add 3 drops of Phosphate reagent B to the solution. Close the lid of the measuring tube and shake it to ensure proper mixing of the reagent and sample.

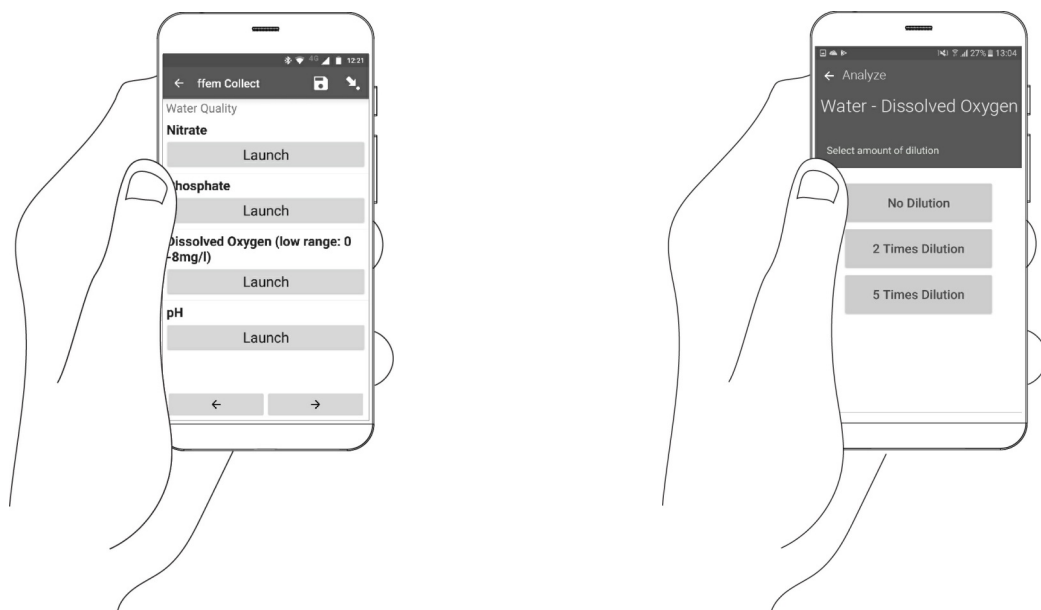


7. Pour the contents of the mixing tube into the provided cuvette. Close the lid and fit the cuvette into the pipe.

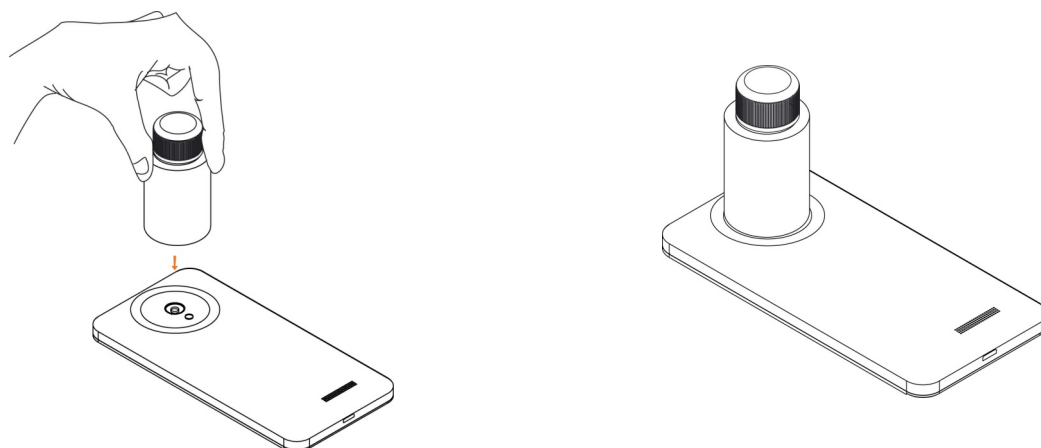


## Dissolved Oxygen

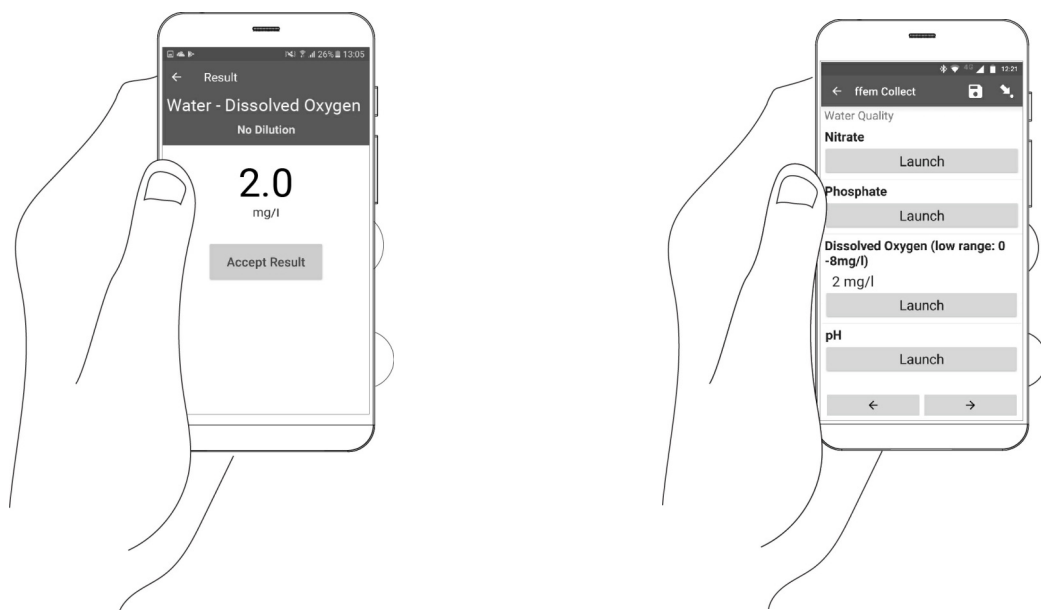
8. Launch the test on the app selecting "No Dilution" on the next screen.



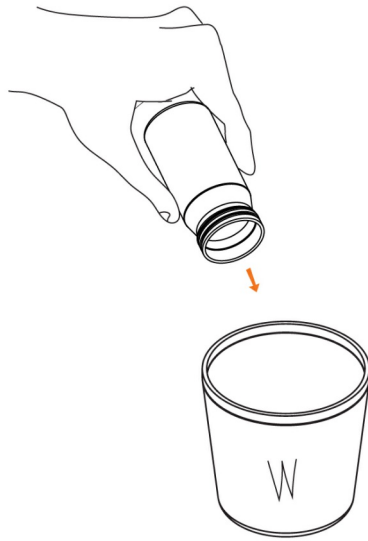
9. Place the phone face down, and use the sticker to help center the cuvette over the camera. Wait for 6 minutes for the test to complete - you will hear 6 beeps and a "Test Completion" sound.



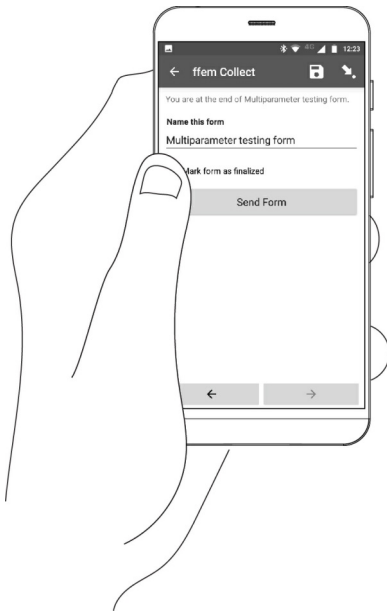
10. You should receive a contaminant concentration value in ppm. Tap Accept Result to return to the survey.



11. Empty the contents of the cuvette and rinse it once.


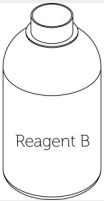

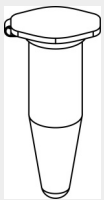


12. Complete the rest of the survey, and submit it once you have filled in all the forms.



## Reagent preparation

### Things You will Need

1	1 Bottle of Reagent A	
2	1 Bottle of Reagent B	
3	A measuring cylinder	
4	Empty Vials	

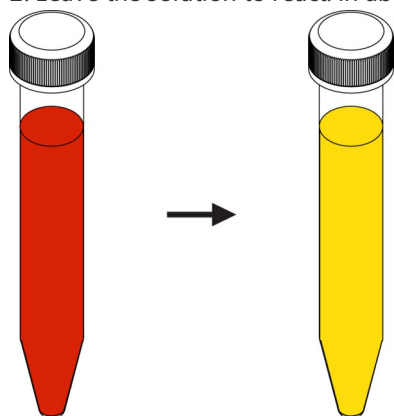
### Preparation

1. Take 10 ml of Reagent A in the measuring tube. add 2.5 ml of Reagent B, so that the total volume of the solution is 12.5ml.



## Dissolved Oxygen

2. Leave the solution to react. In about 10 minutes, the the colour should change from Dark red to yellow



3. Fill the empty vials with the mixed reagent up to the (0.5ml) line for easy testing on the field.

