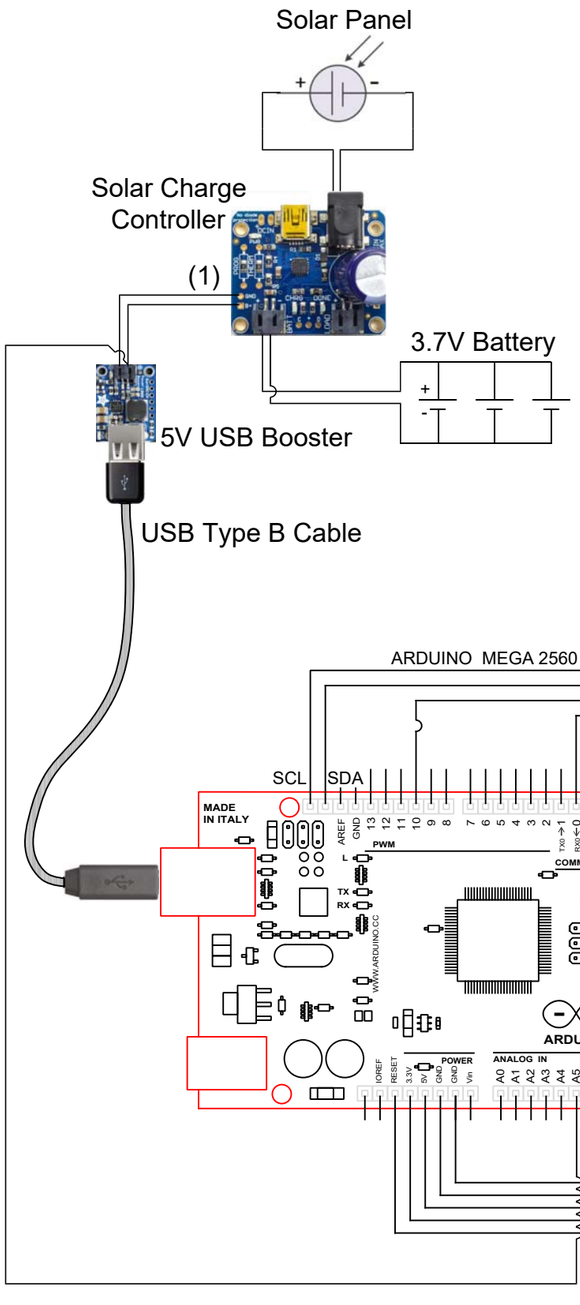
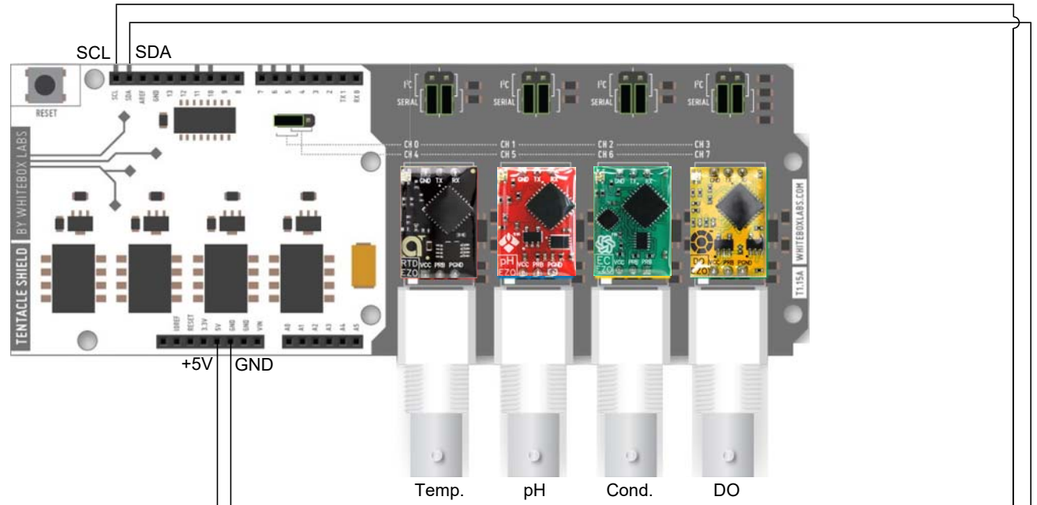
Notes ( )

1. Voltage Booster connected to '+/Gnd' pads on Charge Controller rather than 'Load' connector.
2. Arduino pin 24 to 'Key' pad on FONA Shield.
3. Arduino pin 39 to bilateral switch pins 12&13 on SD shield.
4. Jumper on FONA shield connects pin 10 to 'TX' pad.
5. Arduino pin 44 to base resistor on SD shield.
6. Base Resistor selected for ~0.25V E-C voltage drop across transistor. 750Ω to 2.2KΩ.
7. Bilateral switch pin 2 jumpered to 'SCL' pad on SD shield.
8. Bilateral switch pin 11 jumpered to 'SDA' pad on SD shield.
9. Bilateral switch pin 14 jumpered to '5V' pad on SD shield.
10. Bilateral switch pin 7 and NPN transistor emitter jumpered to 'GND' pad on SD shield.
11. 4066 variant selected for 'ON' resistance < 500Ω.
12. Arduino pin A5 to '+' pad of voltage booster. Used for battery voltage monitoring.





Low-Cost Water Quality Sensor	REV.	DATE	REV.	DATE	DESIGNED: NB	SCALE: na
					DRAWN: BCS	Reference na
					CHECKED:	PROJECT No. na
					APPROVED:	DATE: 1/24/18
Figure 1 System Schematic	EPA Science and Ecosystem Support Division				DWG. NO. LCWQS_0	REV. 0