Test Plan 1

Test	Author: Kenny Chen								
		Power Distribution and Sensor Operation			Test ID #:	TP-TST1			
Test	Case Name:								
Description:		Battery must supply enough power to all modules in the system. We will be looking at voltages across devices and ensure each module turns on.				Туре:	• white box □ black box □		
Teste	er Information								
	Name of Tester:		Date:						
	HW/SW Version:	HW V1.1, SW V1.0				Time:			
	Setup:	3 AA batteries (ways to connect TBD)							
S	Action	Expected Result	Р	F	N	Comments			
Т			Α	Α	/				
E			S	!	A				
Р		 	S	L					
	Place senor into dry soil	None.							
	Turn on device by connecting	Initial sampling of soil moisture level. LED for the pump will be							
	the batteries	lit to indicate operation.							
3									
4									
5									
6									
7									
8									
9									
	Overall test result:								

Test Plan 2

Test	Author: Kenny Chen						
	Time and Code Verification					Test ID #:	TP-TST2
Test	Case Name:						
Description:		The system will use set time intervals to initiate sampling. Then ensure proper sensor data collection and process.			Туре:	• white box □ black box	
Test	er Information						-
	Name of Tester:					Date:	
	HW/SW Version:	HW V1.1, SW V1.0			Time:		
	Setup:	Dry soil and a cup of water					
S	Action	Expected Result	Р	F	N	Comments	
Т			Α	Α	/		
E			S	!	A		
P 1	Dlace concer into dry soil	None.	S	L			
1	Place sensor into dry soil						
2	Turn on device	Initial sampling and water dispensing.			+		
3	Wait on timer	Timer is set to resample every 24 hours in a fully functioning					
		product. But for testing, we can adjust the code to resample within 10 minutes.					
		**It is recommended for testing to swap out the soil with					
		another dry pot to ensure proper operation.					
4		another dry pot to ensure proper operation.			\vdash		
5							
6							
7							
8							
9							
	Overall test result:						

Test Plan 3

Test	Author: Kenny Chen							
Test Case Name:		Controlled release				Test ID #:	TP-TST3	
Description:		The system will have controlled release of the volume of water.			Туре:	• white box □ black box		
Test	er Information							
	Name of Tester:					Date:		
	HW/SW Version:	HW V1.1, SW V1.0				Time:		
	Setup:	Will require a container of water and dry soil						
S T E P	Action	Expected Result	P A S S	F A I L	N / A	Comments		
1	Place sensor into dry soil	None.						
2	Place dispensing tube into a cup or beaker	None.						
3	Turn on device	Initial sampling and water dispensing.						
4	Measure the volume of water	The dispensed volume of water should match the product design specification. For testing, we will set the dispensed liquids to 2 US cups or 16 fluid ounces.						
5								
6								
7								
8								
9			\perp					
	Overall test result:							