Lab Datasheet

STORMWATER MONITORING PROJECT

City	

Sample Collectors	Date	Start Time	End Time
Lab Processors			
Colony Counter			

Reminders	
Rinse bottle 3 x, collect 4th Fill to round shoulder of bottle	
Deliver to lab no more than 6 hrs from collecting	
Process all bacteria samples before turbidity	
Turbidity instructions on back of datasheet	
Incubate RCARDs for 18-23 hours	
E. coli Threshold > 320 cfu/100 ml	
Incubator IN	Incubator OUT

Site ID	Bottle ID	Sample Vol. ml	*E.coli* Count	Multiply	*E.coli* cfu/ 100 ml	Turbidity ntu	Comments (Leak, etc)
-dup		3		33.3			
		3		33.3			
		3		33.3			
		3		33.3			
		3		33.3			
		3		33.3			
		3		33.3			
		3		33.3			
Distilled water		3		33.3			

Notes:

AMTAST Turbidity Meter Procedures

Step	Check for Accuracy:	To Calibrate:	To Use:
1	QUICK Press the POWER/CAL button (upper center button)	When 'STBY' is on screen, press and hold down the POWER/CAL button for 3 seconds. This will take you into calibration. You should see 'Cal 1' in the lower left corner of the screen	RINSE the vial 3 times with sterile water from a lab squeeze bottle.
2	Take 100 NTU vial from calibration kit	Start with 0 NTU calibration vial and invert slowly 3 times	INVERT 250 ml. lab-sample bottle 3 times and fill vial with sample water.
3	Slowly INVERT 3 times - careful to not introduce bubbles	Insert 0 NTU vial into AMTAST meter Match black bump with gray triangle	WIPE down outside of vial to remove fingerprints/water droplets.
4	WIPE down outside of vial to remove fingerprints	Press READ button and wait until '20' appears on screen	Insert vial making sure to match up the small dot on the lid with the arrow on meter.
5	Insert vial, making sure to match up black bump on lid with gray triangle	Replace 0 NTU with 20 NTU and press READ button; Cal symbol should blink Wait until '100' appears on screen	QUICK Press READ button. Value will appear in screen within 10-15 seconds
6	QUICK Press READ button	Replace 20 NTU vial with 100 NTU and press READ button Wait until '800' appears on screen	Record number on datasheet, remove and empty the vial.
7	If reading is between 97-103, continue to Column 4: 'To Use'	Replace 100 NTU vial with 800 NTU vial. Press READ button. Wait until STBY appears.	Repeat steps for all sample bottles.
8	If reading is outside range, continue to Column 3: 'To Calibrate'	Remove 800 NTU vial. Screen should read 'STBY', You are now ready to take a reading.	To turn off: QUICK Press POWER/CAL button.

Notes:

- Buttons are dual use related to length of press
- QUICK Press - Power On/OFF and READ
- LONG Press - Move into calibration mode
- Make sure to wipe vial in between each use, we want to keep moisture out of the machine.