



Advanced
Environmental Laboratories, Inc.

Analysis Begin Date: 2/13/2019

End Date: 2/14/2019

LIMS Report Date: 2/20/2019

Pipette ID#:	TM3-24T8
Filter Paper ID#:	TM3-26M18
Pad / Plate ID#:	TM3-26I24
Media Prep ID#:	MFC21119
H2O Prep ID#:	PBDI21119
Chlorine Check ID#:	TM3-21J8

RUN LOG FOR
SM 9222D
Fecal Coliform by Membrane Filter
CFU/100mL

(Analyst) Begun By:	AV	Read By:	AV	Released:
LIMS Report By:	AV	Reviewed By:	VA	2.20.19
Queue HBN Batch #:	MICt	7801	3054	

Waterbath ID: T1AN Manifold ID: T1J
Waterbath Temp In: 44.5 Temp Out: 44.5
Incubation Temp/Time: 44.5 +/- 0.2 DegC; 24 +/- 2 hrs.

Filter	Lab ID AEL Sample Number	Client ID	Matrix **	Sample Volume(mL)	Dilution Factor	Time Start Filtration	Time in Incubator	Time out Incubator	Fecal Count	Colonies per 100mL	Cl ₂ Check	Comments & Qualifiers	Bottle Lot #s	Funnel
1	3004252	PRE 1	DI	100	1	16:25	16:31	14:32	0	0 U				4
2	3004253	PRE 2	DI	100	1	16:25	16:31	14:32	0	0 U				5
3	3004254	PRE 3	DI	100	1	16:25	16:31	14:32	0	0 U				6
1	T1902687005	FDEP	SW	100	17.5	16:25	16:31	14:32	183	183 U		183 @17.5X	CLIENT	4
2	SD	SD	SW	25	4	16:25	16:31	14:32	40	160 U		CALCULATED		5
3	3004255	SD	SW	10	10	16:25	16:31	14:32	24	240 U				5
1	3004256	SD	SW	1	100	16:25	16:31	14:32	2	200 U				6
2	3004257	DUP	SW	10	10	16:25	16:31	14:32	25	250 U				4
3	3004258	POST 1	DI	100	1	16:25	16:31	14:32	0	0 U				5
1	3004259	POST 2	DI	100	1	16:25	16:31	14:32	0	0 U				6
2	3004260	POST 3	DI	100	1	16:25	16:31	14:32	0	0 U				4
3														6
1														4
2														5
3														6
1														4
2														5
3														6
1														4
2														5
3														6
1														4
2														5
3														6
1														4
2														5
3														6

**WW=Wastewater, GW=Ground water, SW=Surface water, DW=Drinking water

B = Blank; 100ml of Buffer H2O for QC verification of any carry-over

PRE = 100ml Blank sample filtered prior to each run

POST = 100ml Blank sample filtered after each run

MID-[no.] = 100ml Blank sample filtered after 10 usages of each filter holder

U = Undetected, when used for Cl₂; <0.2mg/L

FC = Fecal Coliform

•If a concentration yields a Count that falls within the optimum range, it will be the only result reported and no qualifier will be needed. Dilution Factor should be entered into LIMS.

•If two concentrations yield counts that fall within the optimum range, then those results are entered into the formula and the final result is qualified with an "A". The dilution factor will be "1".

•If no results fall within the optimum range, then all the results are used in the calculation (unless one or two results are over 200). The result gets a "B" qualifier and the dilution factor is "1".

Pre/Post Blank Criteria: <1 col/100mL

TNTC = Too numerous to count; [total colonies exceeds 200]

CG = Confluent growth; [colonies not distinct]

↓: Denotes 'identical to entry above'; [i.e., ditto]

Note: If present, describe and enter non-coliform colony counts in comments column

DUP = Duplication of a sample for QC accuracy calculations

DCN: MI-023W

Eff: 06/09/17

•When using 3 dilutions and no reading falls within optimum range of 20-60 colonies, then results calculated as $(an+bn+cn) \times 100 / (a+b+c)$ Where: an, bn, cn are the colony counts at volumes a, b, c.

•If there are zero counts on all plates, then zero will be reported with the least amount of dilution being reported. This will receive a "B" qualifier unless the dilution is a x1.

•If all results are above 200 the results are reported at the greatest dilution factor. The result is entered as the volume used with a "Z" qualifier.