

## ESR: Surveillance Report – Drinking Water Supply

### 1. Water Stations with UV Water Treatment:

Reporting date: 23.07.2019

No.	Date tested: 19.07.2019 Community Stations	H2S Field Test	Lab test Membrane Filtration		Remarks
			Total coliform <5/100ml	Faecal coliform 0/100ml	
1	Ooa	positive	200	2	Results H2S test x 8 stations indicating the presence of possible harmful bacteria in the water Lab test x 4 stations with faecal contamination over the recommended standard.  The result also indicates failure in the water treatment system  - Display "Red" signs at the water stations of concern. - Inform water station caretakers to check and clean the treatment system - Follow up tests after maintenance
2	Matavera CICC	positive	13	1	
3	Matavera backroad	negative	2	0	
4	Turangi	negative	1	0	
5	Avana	negative	12	0	
6	Muri	positive	60	0	
7	Enua Manea	negative	0	0	
8	Kent Hall	negative	37	0	
9	Arakuo (Papaaroa)	negative	0	0	
10	Kavera	negative	0	0	
11	Betela	negative	0	0	
12	LDS Betela	negative	0	0	
13	Aroa Nui Hall	positive	69	3	
14	Airport 2	negative	0	0	
15	Tupapa	negative	14	0	
16	Sinai	positive	14	0	
17	Vaka Eiva	negative	0	0	
18	Takuvaine AOG	positive	96	0	
19	St Joseph Hall	negative	0	0	
20	Ruatonga	negative	7	0	
21	Avatiu	positive	72	1	
22	Airport 1	positive	25	0	
23	Rangiura	negative	0	0	
24	Pokoinu	negative	2	0	
25	Blackrock tennis court	negative	0	0	
26	Blackrock clinic	negative	0	0	
27	Arorangi Sports club	negative	0	0	
28	Inave	negative	0	0	
29	Prison	negative	0	0	

### 2. Interpretation: Faecal coliforms in water are indicators of possible faecal contamination by warm-blooded animals.

#### I. For Chlorinated or Treated water (WHO recommendation)

Faecal coliform count: 0/100ml Total coliform count: <5/100ml.

#### II. For Unchlorinated or untreated water (WHO recommendation)

Faecal coliform count/100ml:

0/100ml	(E) Excellent result
1-10/100ml	(A) Acceptable (require regular sanitary check)
10-50/100ml	(U) Unacceptable (faulty system, to be checked)
>50/100ml	(G) grossly polluted

**H2S Test (Hydrogen Sulphide – paper strip test).** H2S is a gas produced by some harmful bacteria. If present in the water sample, the paper strip will react by turning black indicating the presence of possible harmful bacteria in the water.