

Appendix 7: 2019 Water Quality Monitoring Results

PARAMETER	LOCATIONS					
	Tuvaruhu Up		Tuvaruhu Outlet		Point Cruz (Ports Authority Area)	
	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide
pH	7.76	7.75	8.2	8.11	8.62	8.43
Temperature, °C	26.9	25.3	26.9	24.2	25.2	25.4
Phosphorous, mg/L	0.3	0.32	1.1	1.32	1.24	1.35
BOD, mg/L	0.52	0.58	0.78	0.94	2.74	1.27
COD, mg/L	160	163	152	154	1	37
TSS, mg/L	1.4	1.73	2.31	2.12	1.74	1.13
Nitrogen, mg/L	0.105	0.115	0.256	0.289	0.178	0.181
Ammonia, mg/L (NH ₃)	0.58	0.58	0.25	1.43	0.42	0.36
Ammonium Ion, mg/L (NH ₄)	0.62	0.62	0.41	1.51	0.45	0.6
E. Coli, unit/mL	73	139	416	549.3	23	1011.2
Total Coliform, unit/mL	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6
HPC, unit/mL	316.9	>2419.6	275.3	153.7	102.5	257.5

PARAMETER	LOCATIONS					
	Kukum (Pacific Casino)		Kukum (Didao)		China Town (New Bridge)	
	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide
pH	8.1	8.75	8.8	8.48	8.84	8.62
Temperature, °C	26.2	25.1	26.1	23.1	26.8	22.1
Phosphorous, mg/L	1.42	1.3	1.38	1.33	1.35	1.4
BOD, mg/L	0.65	0.51	0.65	0.47	1.2	1.06
COD, mg/L	162	160	49	143	77	37
TSS, mg/L	2.45	2.37	2.14	2.4	1.88	1.91
Nitrogen, mg/L	0.214	0.192	0.251	0.239	0.132	0.155
Ammonia, mg/L (NH ₃)	0.28	0.33	0.43	0.73	0.61	0.99
Ammonium Ion, mg/L (NH ₄)	0.48	0.51	0.65	1.14	1.05	2.06
E. Coli, unit/mL	245.8	80.8	18.9	1011.2	195.7	52.5
Total Coliform, unit/mL	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6
HPC, unit/mL	119.3	>2419.6	257.7	>2419.6	221.1	121.4

PARAMETER	LOCATIONS					
	Rove		NRH		Panatina (Marine School)	
	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide
pH	8.71	8.62	8.56	8.23	8.35	8.35
Temperature, °C	26.8	25.3	26.9	24.6	27	25.5
Phosphorous, mg/L	1.3	1.32	1.2	1.74	1.1	1.23
BOD, mg/L	0.46	0.55	0.37	1.21	0.52	0.7
COD, mg/L	53	61	130	32	164	140
TSS, mg/L	2.41	2.1	1.51	1.32	1.34	1.3
Nitrogen, mg/L	0.2	0.197	0.189	0.145	0.222	0.214
Ammonia, mg/L (NH ₃)	0.58	0.58	0.25	1.43	0.42	0.36
Ammonium Ion, mg/L (NH ₄)	0.62	0.62	0.41	1.51	0.45	0.6
E. Coli, unit/mL	138.5	110.4	173.3	1011.2	170.2	214
Total Coliform, unit/mL	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6
HPC, unit/mL	1732.9	172.9	1986.3	1203.3	>2419.6	1732.9

PARAMETER	LOCATIONS					
	China Town (Old Bridge)		Ranadi (Silent World)		Kukum (Spice Bar)	
	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide
pH	7.91	7.73	7.74	7.66	8.4	8.53
Temperature, °C	22.6	22.2	27	25.3	27	24.2
Phosphorous, mg/L	1.18	1.45	1.43	1.2	1.35	1.38
BOD, mg/L	2.6	1.15	1.13	0.91	0.82	0.76
COD, mg/L	21	128	158	143	130	134
TSS, mg/L	2.1	1.5	1.9	1.7	1.82	1.64
Nitrogen, mg/L	0.17	0.153	0.34	0.562	0.414	0.326
Ammonia, mg/L (NH ₃)	0.28	0.33	0.43	0.73	0.61	0.99
Ammonium Ion, mg/L (NH ₄)	0.48	0.51	0.65	1.14	1.05	2.06
E. Coli, unit/mL	251.5	353.8	319.9	162.8	501.2	1732.9
Total Coliform, unit/mL	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6
HPC, unit/mL	211	>2419.6	319.9	>2419.6	689.3	452

1. Note:

Times Collected

2. High Tide Range pm 11Nov19

Low Tide Range: am 12Nov19

Photographs of Honiara Foreshore Water Sampling Points



Kukum Didao



Kukum Spice Bar



Panatina (Marine School)



China Town (New Bridge)



NRH



Kukum (Pacific Casino)



Port Authorities



Silent Word (Ranadi)



Tuvaruhu