



**NEW HOPE**  
GROUP

## Appendix 0 Tank Water Quality Sampling Results



Parameter	Units	ADWG Guidelines 6, 2011		Rainwater Tank Water Quality Samples										Tap Water Quality Samples										
				Property Location Date	ID#2	ID#2	ID#2	ID#2	ID#3	ID#3	ID#4	ID#5	ID#5	ID#6	ID#6	ID#2	ID#2	ID#2	ID#3	ID#3	ID#5	ID#5	ID#6	ID#6
					Primary Tank	Primary Tank	Primary Tank	New Tank	Tank	Tank	Tank	Tank	Tank	Pri Tank	Supp Tank	Bathroom	Bathroom	Bathroom	Garden	Garden	External	External	Bathroom	Bathroom
Health	Aesthetics	Nov-10	Jul-11	Feb-12	Feb-12	Jul-11	Feb-12	Feb-12	Jul-11	Feb-12	Jul-11	Feb-12	Nov-10	Jul-11	Feb-12	Jul-11	Feb-12	Jul-11	Feb-12	Jul-11	Feb-12			
<b>Microbiology</b>																								
Faecal Coliform	cfu/100 ml			<1	30	20	<1	-8	<1	<1	30	10	60	1	27	30	24	-6	<1	<2	<1	20	10	
E. Coli	cfu/100 ml	0		<1	8	20	<1	-2	<1	<1	<2	7	30	1	27	8	24	-4	<1	<2	<1	20	10	
Total Coliform	cfu/100 ml			43	80	140	12	170	26	<1	640	120	90	190	52	70	80	20	36	<2	17	260	6500	
<b>Ionic Parameters</b>																								
Alkalinity (Bicarbonate as CaCO3)	mg/L			2	2	5	4	<1	4	49	<1	2	1	34	2	1	4	2	4	<1	5	2	12	
Alkalinity (Carbonate as CaCO3)	mg/L			0.0002	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.00015	<1	<1	<1	<1	<1	<1	<1	<1	
Alkalinity (Hydroxide) as CaCO3	µg/L			0.5	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	0.38	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	
Alkalinity (total) as CaCO3	mg/L			-	2	5	4	<1	4	49	<1	2	1	34	2	1	4	2	4	<1	5	2	12	
Chloride	mg/L		250	3	1	1	1	1	1	1	<1	<1	2	2	2	1	1	1	1	<1	1	3	9	
Sulphate	mg/L	500	250	<1	<1	1	<1	<1	1	2	<1	1	2	<1	<1	<1	1	<1	1	<1	1	<1	1	
Anions Total	meq/L			0.15	0.06	0.15	0.11	0.03	0.1	1.05	<0.01	0.06	0.12	0.74	0.12	0.05	0.13	0.07	0.1	<0.01	0.15	0.12	0.51	
Calcium (Filtered)	mg/L			<1	<1	<1	<1	<1	<1	17	<1	<1	9	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	
Magnesium (Filtered)	mg/L			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Potassium (Filtered)	mg/L			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	1	3	<1	1	
Sodium (Filtered)	mg/L		180	<1	<1	<1	2	<1	<1	1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	1	5	
Cations Total	meq/L			0.21	<0.01	<0.01	0.09	<0.01	<0.01	0.89	<0.01	<0.01	0.1	0.54	0.21	<0.01	<0.01	<0.01	<0.01	0.03	0.08	0.05	0.34	
TDS	mg/L		600	-	10	23	<10	<5	15	82	<5	14	65	-	<5	21	<5	<5	23	8	24	12	53	
TSS	mg/L			-	10	<5	5	12	7	<5	<5	<5	2110	5	-	<5	<5	<5	<5	7	<5	6	<5	
<b>Metals</b>																								
Arsenic	mg/L	0.007		-	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	2		-	0.005	0.011	0.016	0.002	0.004	0.02	0.001	0.002	0.009	0.007	-	0.005	0.007	0.002	0.003	<0.001	<0.001	0.002	0.005	
Beryllium	mg/L	0.06		-	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium	mg/L	0.002		-	0.0008	0.0012	<0.0005	0.0013	0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	0.0008	0.0011	0.0015	0.002	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium (III+VI)	mg/L	0.05		-	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cobalt	mg/L			-	<0.001	0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	-	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	
Copper	mg/L	2	1	-	0.015	0.179	<0.005	0.017	0.026	<0.001	0.012	0.018	0.003	<0.001	-	0.25	0.059	0.11	0.071	<0.001	<0.001	0.058	0.018	
Lead	mg/L	0.01		-	0.002	0.045	<0.005	<0.001	0.002	0.004	0.002	0.002	0.015	0.01	-	0.01	0.002	0.009	0.016	<0.001	<0.001	0.001	0.003	
Manganese	mg/L	0.5	0.1	-	0.005	0.014	0.012	0.007	0.009	0.002	0.004	0.006	<0.0001	0.064	-	0.005	0.008	0.007	0.01	<0.001	<0.001	0.041	0.111	
Mercury	mg/L	0.001		-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.001	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Nickel	mg/L	0.02		-	0.002	0.004	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.022	<0.001	-	0.051	<0.001	0.003	0.009	<0.001	<0.001	<0.001	<0.001	
Vanadium	mg/L			-	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Zinc	mg/L		3	-	1.39	1.96	1.6	0.42	0.628	0.221	0.267	0.429	3.83	2.54	-	3.28	1.65	0.879	0.891	0.031	0.012	0.898	1.11	
Fluoride	mg/L	1.5		<0.1	<0.1	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	0.1	-	<0.1	-	<0.1	-	<0.1	-	
Nitrite as N	mg/L	3		<0.002	<0.01	-	<0.01	<0.01	-	-	<0.01	-	<0.01	-	<0.002	<0.01	-	<0.01	-	<0.01	-	<0.01	-	
Nitrate as N	mg/L	50		4.5	0.58	-	0.64	0.49	-	-	0.4	-	0.87	-	0.62	0.59	-	0.41	-	0.28	-	0.2	-	
Nitrite + Nitrate as N	mg/L			4.5	0.58	-	0.64	0.49	-	-	0.4	-	0.87	-	0.62	0.59	-	0.41	-	0.28	-	0.2	-	
Reactive Phosphorus as P	mg/L			-	0.01	-	0.02	0.03	-	-	0.03	-	0.08	-	-	0.01	-	0.02	-	0.03	-	<0.01	-	
<b>Field Quality Parameters</b>																								
Dissolved Oxygen	mg/L			-	7.87	3.48	-	8.89	6.24	4	8.07	-	8.81	4.3	-	7.49	-	6.74	3.47	8.27	3.57	5.42	0.7	
Electrical Conductivity	µS/cm			-	7.1	17.1	-	3	35.2	106	3.3	-	6.8	37.9	-	3.5	-	3.4	19	4.1	12.5	6.6	61.9	
pH			6.5-8.5	-	5.45	5.77	-	6.5	5.65	6.39	4.71	-	7.15	7.01	-	5.76	-	6.49	5.46	4.64	6.2	6.81	7.01	
Temperature	°C			-	13	26.5	-	14	28.8	25.2	16.2	-	16.3	24.8	-	13.8	-	19.4	29.4	13.7	24.8	15	23.3	
Redox Potential	mV			-	254	18.4	-	345	202	129.5	401	-	331	174	-	755	-	756	2.4	414	149	199	179	