



Ministry of Marine Resources
GOVERNMENT OF THE COOK ISLANDS



Manihiki Water Quality Field Data
January 2013 - July 2014.
Pearl Support Division
Ministry of Marine Resources

The data enclosed is the property of the Ministry of Marine

Site	Site ID	Sample Date	Probe Order	Sampler	Recorder	Water Temperature	Distance to Shore (m)	Cloud Cover %	Wind Direction	Tide	Current	Surface Conditions	Clarity	Secchi disk (m)	Observations	Entered By	Date Entered	Checked By	Date Checked	Cleaning Comments
Takaniko	1	29-Jan-13	1	Uea/Meti	Meti	28.8		80	E	3	2	2	2		Heavy showers due to Cyclone Garry, High tidal surges from the ocean into lagoon, Early morning showers, over cast day today.	Ngere	29-Jan-13	Tina	31-Jan-13	
Rahea Raro	2	29-Jan-13	2	Uea/Meti	Meti	26.8		65	E	3	2	2	3		Heavy showers due to Cyclone Garry, High tidal surges from the ocean into lagoon, Early morning showers, over cast day today.	Ngere	29-Jan-13	Tina	31-Jan-13	
Moe Akaroro	3	29-Jan-13	3	Uea/Meti	Meti	28.8		90	E	3	2	2	3		Heavy showers due to Cyclone Garry, High tidal surges from the ocean into lagoon, Early morning showers, over cast day today.	Ngere	29-Jan-13	Tina	31-Jan-13	
Ngatoka e Hitu	4	29-Jan-13	4	Uea/Meti	Meti	28.7		90	E	3	2	2	3		Heavy showers due to Cyclone Garry, High tidal surges from the ocean into lagoon, Early morning showers, over cast day today.	Ngere	29-Jan-13	Tina	31-Jan-13	
Monitoring Buoy	5	29-Jan-13	5	Uea/Meti	Meti	28.8		90	E	3	2	2	3		Heavy showers due to Cyclone Garry, High tidal surges from the ocean into lagoon, Early morning showers, over cast day today.	Ngere	29-Jan-13	Tina	31-Jan-13	
Tukao Bay	6	29-Jan-13	6	Uea/Meti	Meti			90	E	3	2	2	2		Heavy showers due to Cyclone Garry, High tidal surges from the ocean into lagoon, Early morning showers, over cast day today.	Ngere	29-Jan-13	Tina	31-Jan-13	
Takaniko	1	26-Feb-13	1	Uea/Meti/Papa Tu	Meti	29.68		60	E	3	2	2	2		mainly fine conditions and some showers during the week, light showers this morning	Teina	1-Mar-13	Ngere	4-Mar-13	
Rahea Raro	2	26-Feb-13	2	Uea/Meti/Papa Tu	Meti	29.61		60	E	3	2	2	3		mainly fine conditions and some showers during the week, light showers this morning	Teina	1-Mar-13	Ngere	4-Mar-13	
Moe Akaroro	3	26-Feb-13	3	Uea/Meti/Papa Tu	Meti	29.29		80	E	3	2	2	3		mainly fine conditions and some showers during the week, light showers this morning	Teina	1-Mar-13	Ngere	4-Mar-13	
Ngatoka e Hitu	4	26-Feb-13	4	Uea/Meti/Papa Tu	Meti	29.58		70	E	3	2	2	3		mainly fine conditions and some showers during the week, light showers this morning	Teina	1-Mar-13	Ngere	4-Mar-13	
Monitoring Buoy	5	26-Feb-13	5	Uea/Meti/Papa Tu	Meti	29.53		50	E	3	2	2	3		mainly fine conditions and some showers during the week, light showers this morning	Teina	1-Mar-13	Ngere	4-Mar-13	
Tukao Bay	6	26-Feb-13	6	Uea/Meti/Papa Tu	Meti	29.47		30	E	3	2	2	2		mainly fine conditions and some showers during the week, light showers this morning	Teina	1-Mar-13	Ngere	4-Mar-13	
Takaniko	1	12-Mar-13	1	Uea	Meti			70	e	3	2	2	2		strong winds with heavy showers end of last week; fine weather today with a moderate breeze from the east	Tina	13-Mar-13	Teina	13-Mar-13	
Rahea Raro	2	12-Mar-13	2	Uea	Meti			70	e	3	2	2	3		strong winds with heavy showers end of last week; fine weather today with a moderate breeze from the east	Tina	13-Mar-13	Teina	13-Mar-13	
Moe Akaroro	3	12-Mar-13	3	Uea	Meti			60	e	3	2	2	3		strong winds with heavy showers end of last week; fine weather today with a moderate breeze from the east	Tina	13-Mar-13	Teina	13-Mar-13	
Ngatoka e Hitu	4	12-Mar-13	4	Uea	Meti			60	e	3	2	2	3		strong winds with heavy showers end of last week; fine weather today with a moderate breeze from the east	Tina	13-Mar-13	Teina	13-Mar-13	
Monitoring Buoy	5	12-Mar-13	5	Uea	Meti			60	e	3	2	2	2		strong winds with heavy showers end of last week; fine weather today with a moderate breeze from the east	Tina	13-Mar-13	Teina	13-Mar-13	
Tukao Bay	6	12-Mar-13	6	Uea	Meti			40	e	3	2	2	2		strong winds with heavy showers end of last week; fine weather today with a moderate breeze from the east	Tina	13-Mar-13	Teina	13-Mar-13	
Takaniko	1	27-Mar-13	1	Uea	Meti			25	e	1	1	3	2		Heavy showers this morning; fine weather during the first half of the week, the later half heavy showers and strong ne-e winds	Tina	2-Apr-13	Ngere	2-Apr-13	
Rahea Raro	2	27-Mar-13	2	Uea	Meti			20	e	1	1	3	3		Heavy showers this morning; fine weather during the first half of the week, the later half heavy showers and strong ne-e winds	Tina	2-Apr-13	Ngere	2-Apr-13	
Moe Akaroro	3	27-Mar-13	3	Uea	Meti			15	e	1	1	3	3		Heavy showers this morning; fine weather during the first half of the week, the later half heavy showers and strong ne-e winds	Tina	2-Apr-13	Ngere	2-Apr-13	
Ngatoka e Hitu	4	27-Mar-13	4	Uea	Meti			10	e	1	1	3	3		Heavy showers this morning; fine weather during the first half of the week, the later half heavy showers and strong ne-e winds	Tina	2-Apr-13	Ngere	2-Apr-13	
Monitoring Buoy	5	27-Mar-13	5	Uea	Meti			10	e	1	1	3	3		Heavy showers this morning; fine weather during the first half of the week, the later half heavy showers and strong ne-e winds	Tina	2-Apr-13	Ngere	2-Apr-13	
Tukao Bay	6	27-Mar-13	6	Uea	Meti			20	e	1	1	3	2		Heavy showers this morning; fine weather during the first half of the week, the later half heavy showers and strong ne-e winds	Tina	2-Apr-13	Ngere	2-Apr-13	
NO SAMPLES FOR APRIL 2013																				
Takaniko	1	2-May-13	1	Uea/Meti	Meti			20	E	1	1	2	2		fine weather right through last week, fine weather this morning (heavy showers Sunday evening till early Monday morning this week)	Teina	3-May-13			
Rahea Raro	2	2-May-13	2	Uea/Meti	Meti			20	E	1	2	2	3		fine weather right through last week, fine weather this morning (heavy showers Sunday evening till early Monday morning this week)	Teina	3-May-13			
Moe Akaroro	3	2-May-13	3	Uea/Meti	Meti			20	E	1	2	2	3		fine weather right through last week, fine weather this morning (heavy showers Sunday evening till early Monday morning this week)	Teina	3-May-13			

Ngatoka e Hitu	4	2-May-13	4	Uea/Meti	Meti			20	E		1	2	2	3	fine weather right through last week, fine weather this morning (heavy showers Sunday evening till early Monday morning this week)	Teina	3-May-13			
Monitoring Buoy	5	2-May-13	5	Uea/Meti	Meti				E		1	2	2	3	fine weather right through last week, fine weather this morning (heavy showers Sunday evening till early Monday morning this week)	Teina	3-May-13			
Tukao Bay	6	2-May-13	6	Uea/Meti	Meti			10	E		1	1	3	2	fine weather right through last week, fine weather this morning (heavy showers Sunday evening till early Monday morning this week)	Teina	3-May-13			
NO SAMPLES FOR JUNE 2013																				
Takaniko	1	16-Jul-13	1	Uea/Meti	Meti	28.45		80	SE		1	3	1	3	11	last week frequent showers with strong winds coming from SE-S; today showers this morning, slightly overcast moderate E winds.	Teina	23-Jul-13	Ngere	25-Jul-13
Rahea Raro	2	16-Jul-13	2	Uea/Meti	Meti	28.44		80	SE		1	3	1	3	12.5	last week frequent showers with strong winds coming from SE-S; today showers this morning, slightly overcast moderate E winds.	Teina	23-Jul-13	Ngere	25-Jul-13
Moe Akaroro	3	16-Jul-13	3	Uea/Meti	Meti	28.38		65	SE		1	3	1	3	10	last week frequent showers with strong winds coming from SE-S; today showers this morning, slightly overcast moderate E winds.	Teina	23-Jul-13	Ngere	25-Jul-13
Ngatoka e Hitu	4	16-Jul-13	4	Uea/Meti	Meti	28.41		80	SE		1	3	1	3	12	last week frequent showers with strong winds coming from SE-S; today showers this morning, slightly overcast moderate E winds.	Teina	23-Jul-13	Ngere	25-Jul-13
Monitoring Buoy	5	16-Jul-13	5	Uea/Meti	Meti	28.41		80	SE		1	3	1	3	13.5	last week frequent showers with strong winds coming from SE-S; today showers this morning, slightly overcast moderate E winds.	Teina	23-Jul-13	Ngere	25-Jul-13
Tukao Bay	6	16-Jul-13	6	Uea/Meti	Meti	28.33		80	SE		1	3	2	2	7	last week frequent showers with strong winds coming from SE-S; today showers this morning, slightly overcast moderate E winds.	Teina	23-Jul-13	Ngere	25-Jul-13
Takaniko	1	13-Aug-13	6	Uea/Tangi/Meti	Meti			90	variable		1	1	3	2	9	LAST WEEK: from Thursday to Sunday, heavy showers at most times, strong winds; TODAY: calm weather this morning with some showers early this morning, rain visible in the distance, light winds	Teina	16-Aug-13		
Rahea Raro	2	13-Aug-13	5	Uea/Tangi/Meti	Meti			90	variable		1	1	3	3	10	LAST WEEK: from Thursday to Sunday, heavy showers at most times, strong winds; TODAY: calm weather this morning with some showers early this morning, rain visible in the distance, light winds	Teina	16-Aug-13		
Moe Akaroro	3	13-Aug-13	4	Uea/Tangi/Meti	Meti			90	variable		1	1	3	3	13	LAST WEEK: from Thursday to Sunday, heavy showers at most times, strong winds; TODAY: calm weather this morning with some showers early this morning, rain visible in the distance, light winds	Teina	16-Aug-13		
Ngatoka e Hitu	4	13-Aug-13	1	Uea/Tangi/Meti	Meti			90	variable		1	1	3	3	11	LAST WEEK: from Thursday to Sunday, heavy showers at most times, strong winds; TODAY: calm weather this morning with some showers early this morning, rain visible in the distance, light winds	Teina	16-Aug-13		
Monitoring Buoy	5	13-Aug-13	2	Uea/Tangi/Meti	Meti			90	variable		1	1	3	2	9	LAST WEEK: from Thursday to Sunday, heavy showers at most times, strong winds; TODAY: calm weather this morning with some showers early this morning, rain visible in the distance, light winds	Teina	16-Aug-13		
Tukao Bay	6	13-Aug-13	3	Uea/Tangi/Meti	Meti			90	variable		1	1	3	2	6	LAST WEEK: from Thursday to Sunday, heavy showers at most times, strong winds; TODAY: calm weather this morning with some showers early this morning, rain visible in the distance, light winds	Teina	16-Aug-13		
Takaniko	1	27-Aug-13	6	Uea/Tangi/Meti	Meti			20	E		1	3	2	3	21.5	LAST WEEK: mainly fine weather with some showers during last week, as well as some calm surface condition too; TODAY: morning showers, cloudy weather				
Rahea Raro	2	27-Aug-13	5	Uea/Tangi/Meti	Meti			30	E		1	3	2	3	15	LAST WEEK: mainly fine weather with some showers during last week, as well as some calm surface condition too; TODAY: morning showers, cloudy weather				
Moe Akaroro	3	27-Aug-13	4	Uea/Tangi/Meti	Meti			40	E		1	3	2	3	51.5	LAST WEEK: mainly fine weather with some showers during last week, as well as some calm surface condition too; TODAY: morning showers, cloudy weather				
Ngatoka e Hitu	4	27-Aug-13	1	Uea/Tangi/Meti	Meti			30	E		1	3	2	3	12	LAST WEEK: mainly fine weather with some showers during last week, as well as some calm surface condition too; TODAY: morning showers, cloudy weather				
Monitoring Buoy	5	27-Aug-13	2	Uea/Tangi/Meti	Meti			25	E		1	3	2	3	24	LAST WEEK: mainly fine weather with some showers during last week, as well as some calm surface condition too; TODAY: morning showers, cloudy weather				
Tukao Bay	6	27-Aug-13	3	Uea/Tangi/Meti	Meti			30	E		1	2	2	2	8.5	LAST WEEK: mainly fine weather with some showers during last week, as well as some calm surface condition too; TODAY: morning showers, cloudy weather				
NO SAMPLES FOR SEPTEMBER 2013																				
Takaniko	1	15-Oct-13	1	Tina	Georgia			100	E		1	1	3	-	20m Depth Profile!!! LAST WEEK: lots of rain recently; TODAY: light showers	Tina	17-Oct-13			
Rahea Raro	2	15-Oct-13	2	Tina	Georgia			100	E		1	1	3	-	20m Depth Profile!!! LAST WEEK: lots of rain recently; TODAY: light showers	Tina	17-Oct-13			

