

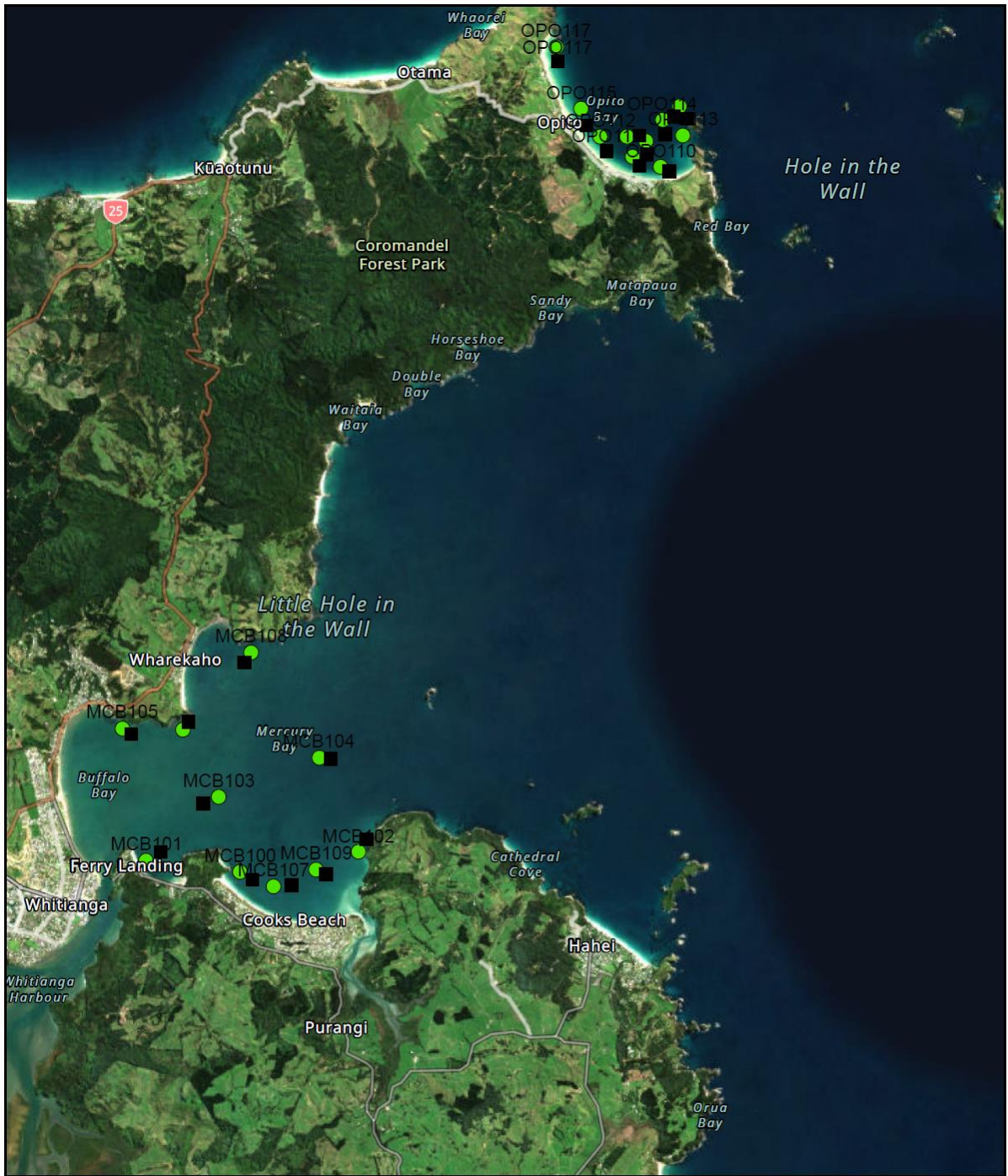
Situation Report: Aotea and Ahuahu Island exotic Caulerpa Delimitation (MPI Response Panel Contract)

Co-ordinated by:	NIWA
Report Number	#002
Date and time	20 July 2023
Period covered	19 July 07:00-19:00
Summary of day's activities	<ul style="list-style-type: none"> - 0700-0730 Breakfast at Opito Bay, toolbox meeting set up gear and move onto site for the first dive in the bay. - 0730- 0930 Five fifteen-minute dive transect searches in the Opito Bay area (OPO111, OPO112, OPO115, OPO117 & OPO119). No exotic Caulerpa detected (Table 1, Figure 2). - 0945- 1030 transit from Opito Bay to Mercury Bay, remobilise dive team. - 1030- 1200 Four fifteen-minute dive transect searches in the Mercury Bay area (MCB101, MCB105, MCB106 & MCB108). No exotic Caulerpa detected (Table 1, Figure 2). - 1200-1320 Fuel up in Whitianga marina and lunch break. - 1320- 1550 Six fifteen-minute dive transect searches in the Opito Bay area (MCB102-104, MCB107, MCB109, MCB100). No exotic Caulerpa detected (Table 1, Figure 2). - 1600-1730 transit from Mercury Bay to Coralie Bay on Ahuahu/Great Mercury Island. - 1730-1800 Anchor at Opito Bay for the night, debrief day and make a plan for diving tomorrow. The dive team updated the project manager of the daily activities and sent the data through for SitRep - 1730 to 1900 Complete SitRep and collate data.
Actions carried out	<ul style="list-style-type: none"> • 15 dives around the Opito Bay and Mercury Bay area • Refuel in Whitianga • Transit to Ahuahu/Great Mercury Island • Data collation, mapping and SitRep.
Plan for tomorrow	<ul style="list-style-type: none"> • Complete 15 fifteen-minute dive searches in the Coralie Bay, Peachgrove Bay and Bumper cove areas on Ahuahu/great Mercury Island. • Transit to Mercury Cove area to overnight

Table 1: Transect locations, substrate, depth and presence of exotic Caulerpa (in yellow) completed during the delimitation survey in July 2023 by NIWA divers

Site ID (i.e. Dive01/Rov 01)	Start Coordinates		End Coordinates		Depth category ¹	Water temp	Max depth	Transect width	Substrate ²	Approx. Visibility (m)	Caulerpa (Y/N)
	Lat	Long	Lat	Long							
OPO110	175.811853	-36.71995878	175.8134676	-36.72060935	S	14	5.8	6	3-5	8	N
OPO113	175.8159417	-36.71500233	175.8166678	-36.71248146	M	15	7.2	8	3-7	8	N
OPO114	175.811853	-36.71275784	175.8125513	-36.71489486	D	15	10.6	8	3-5	10	N
OPO116	175.8151234	-36.71060137	175.8139898	-36.71208868	D	15	17.5	6	3-5	8	N
OPO118	175.8089482	-36.71601564	175.8091669	-36.71811665	D	14	11.1	8	3-5	8	N
OPO119	175.8051994	-36.71549329	175.8074691	-36.71529927	D	14	13.3	8	1-5	10	N
OPO111	175.8064631	-36.71851864	175.8077516	-36.71981432	M	14	9.4	8	3-7	10	N
OPO112	175.8001749	-36.71563829	175.8014852	-36.71769502	M	14	8.4	8	3	10	N
OPO115	175.7963672	-36.71145245	175.7973799	-36.7138515	M	14	7.1	8	3	10	N
OPO117	175.7911917	-36.70195516	175.7915773	-36.70430528	M	14	6.6	8	3-8	10	N
MCB108	175.7363945	-36.79624723	175.7351745	-36.79780978	M	14	8.1	6	3	5	N
MCB106	175.7238181	-36.80847511	175.7247744	-36.80719868	M	14	6.2	4	3-7	4	N
MCB105	175.71214	-36.80847511	175.7139478	-36.80928154	S	14	4.2	3	2-5	2	N
MCB101	175.7175299	-36.82861089	175.7202076	-36.82730821	S	14	4.2	4	3	4	N
MCB103	175.7310046	-36.81854366	175.7280484	-36.81969086	M	14	6.7	8	3	5	N

1Depth Category codes (NS <2m, S 2-5m, M, 5-10m, D >10m)
2Substrate codes: 1- Sandy mud, 2- Muddy sand, 3- Sand, 4- Sandy gravel, 5- Shelly gravel, 6- Sand foul, 7- Sand reef, 8- Reef, 9- Other (Please state), 10 - Mud can have multiple codes ADD COMMENTS



20/07/2023

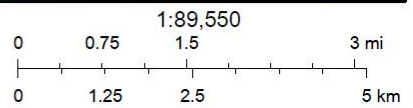


Figure 2: Start (Green circles) and end (black squares) points for the dive searches completed in Opito Bay and Mercury Bay on 18 and 19 July 2023.