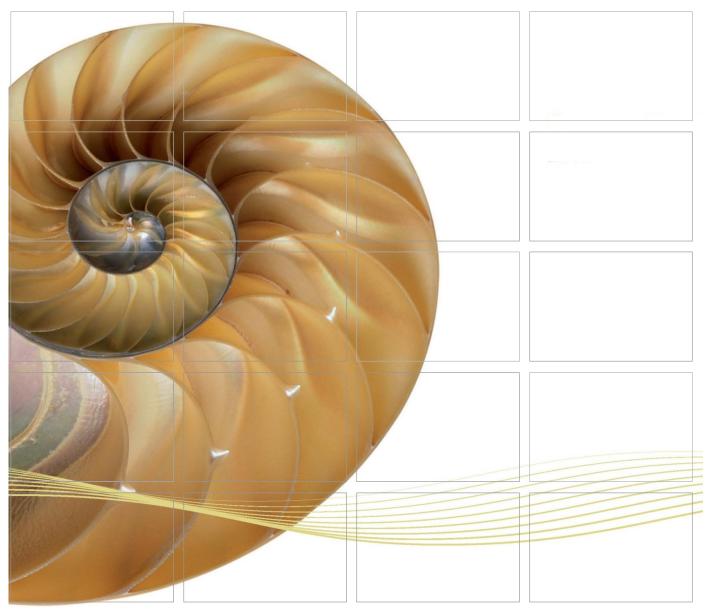
DETAILED METHODOLOGY



Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section

Detailed Coral Translocation Methodology

9 October 2013

Environmental Resources Management 16/F, DCH Commercial Centre 25 Westlands Road Quarry Bay, Hong Kong Telephone 2271 3000 Facsimile 2723 5660

www.erm.com





Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section

Detailed Coral Translocation Methodology

Document Code: 0212330_Coral Translocation_Northern_v3_JT.doc

Environmental Resources Management

16/F, DCH Commercial Centre 25 Westlands Road Quarry Bay, Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com

Client:		Project No	0:		
DBJV		021233	0		
Summary		Date: 9 Octob	er 2013		
		Approved	by:		
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Revision	Description	Ву	Checked	Approved	Date
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We disclaim the scope of	n any responsibility to the client and others in respect of any matters outside f the above.	☐ Puk	olic		BSI
This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.		⊠ Cor	nfidential		9001 : 2008 te No. FS 32515





Your ref.

Our ref.

5125599/ELT17972/SH/SO/el

Date:

16 October 2013

By Email and Post

Dragages – Bouygues Joint Venture 3/F, Island Place Tower 510 King's Road North Point Hong Kong

Attn: Mr. Seved Robin

Dear Seved,

Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link Northern Connection Subsea Tunnel Section
Certification of Detailed Coral Translocation Methodology V3

We refer to your email dated 16 October 2013 regarding the Detailed Coral Translocation Methodology V3. We have no comments on the methodology. Our certification sheet is enclosed for your onward submissions to relevant government departments.

Yours sincerely, for and on behalf of Atkins China Ltd

Sharifah Or Design Auditor

Encl.

阿特金斯 ATKINS

香港九龍尖沙咀海港城 九倉電訊中心十三樓 13/F Wharf T&T Centre Harbour City Tsim Sha Tsui Kowloon Hong Kong

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Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Environmental Permit No.: EP-354/2009/A

EP Condition 2.6 – Detailed Coral Translocation Methodology

Design Auditor

This certification references the Contractor's submissions dated Wednesday, 16 October 2013 (via email) providing the Detailed Coral Translocation Methodology V3 to provide findings of the pre-translocation surveys, identification of receptor sites for translocated corals form Pillar Point, details of the proposed procedures for the pre-translocation survey, coral translocation method and post-translocation monitoring method.

Condition 2.6 in the project Environmental Permit (EP-354/2009/A) states:

"The Permit Holder shall deposit with the Director, at least 1 month before the commencement of construction of the Project, three hard copies and one electronic copy of a detailed coral translocation methodology, including pre-translocation survey, identification of receiving sites and post-translocation monitoring."

To check whether the environmental requirements are fully complied with, the following documents have been reviewed together with the Detailed Coral Translocation Methodology V3 dated 9 October 2013:

- Environmental Impact Assessment Report and Environmental Monitoring and Audit Manual for Tuen Mun – Chep Lap Kok Link (AEIAR-146/2009); and
- Environmental Permit (EP-354/2009/A).

In accordance with the requirements of the project EM&A Manual, section 6.3.1.3, the above document has been checked and the measures have been fully incorporated into the reference plan. As such, the Design Auditor agrees that the proposed Detailed Coral Translocation Methodology V3 is adequate for monitoring and mitigating the potential ecological impacts of Contract No. HY/2012/08.

Date: 16 October 2013

Certified by:

Sharifah Or, Design Auditor



17 October 2013

Ref.: HYDHZMBEEM00_0_1311L.13

AECOM Supervising Officer Representative's Office Room 201, 2nd Floor, River Trade Terminal Office Building, 201 Lung Mun Road, Tuen Mun, Hong Kong By Fax (2450 3099) and By Post

Attention: Messrs. Edwin Ching / Andy Westmorelan

Dear Sir.

Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,
and Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2011/08
Tuen Mun – Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Detailed Coral Translocation Methodology v3 (EP Condition 2.6)

Reference is made to the submission of a Detailed Coral Translocation Methodology certified by the ET Leader (ERM Ref: 0212330_Coral_Translocation_Northern_v3.doc dated on 9 October 2013) and also by the Design Auditor (Atkin's Ref: 5125599/ELT17972/SH/SO/el, dated on 16 October 2013) provided to us via emails on 11 and 17 October 2013, respectively.

We are pleased to inform you that we have no adverse comments on the revised Detailed Coral Translocation Methodology. We write to verify the captioned submission in accordance with Condition 2.6 of EP-354/2009/A.

Thank you for your kind attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y H Hui should you have any queries.

Yours sincerely,

Tony Cheng

Independent Environmental Checker

Tuen Mun – Chek Lap Kok Link

c.c. HyD – Mr. Stephen Chan (By Fax: 3188 6614)

HyD – Mr. Matthew Fung (By Fax: 3188 6614)

AECOM - Mr. Conrad Ng (By Fax: 3922 9797)

ERM – Mr. Jovy Tam (By Fax: 2723 5660)

Dragages - Mr. C.F. Kwong (By Fax: 2670 2798)

Internal: DY, YH, SC, ENPO Site

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INTRODUCTION

1.1 BACKGROUND

1

According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM)*. The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-145/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (EP-354/2009A) was issued on 8 December 2010.

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of TM-CLKL ("the Contract"). ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) for the Contract.

1.2 CORAL TRANSLOCATION FOR NORTHERN LANDFALL

According to the approved EIA Report of the TM-CLKL, the proposed reclamation work at the northern landfall area in Pillar Point would lead to direct loss of corals of low to moderate ecological value. In addition, the Project would also lead to elevation of suspended solid (SS) levels in the Tuen Mun area. Even with the application of a silt curtain system, SS were predicted to exceed the Water Quality Objectives (WQO) during approximately 11% of the wet season period. Coral translocation was therefore recommended for the coral colonies at Pillar Point prior to construction in order to reduce the potential marine ecological impacts of the northern landfall reclamation works. The approved EIA Report recommended that an area around Tai Mo To could be a suitable location for the receptor site(s).

1.3 ENVIRONMENTAL REQUIREMENTS FOR CORAL TRANSLOCATION

According to *Condition 2.6* of the EP-354/2009A, the Permit Holder shall submit to the Director of Environmental Protection (DEP) for approval, at least one month before the commencement of construction of the Project, three hard copies and one electronic copy of a detailed coral translocation methodology, including pre-translocation survey, identification of receptor site and post-translocation monitoring.

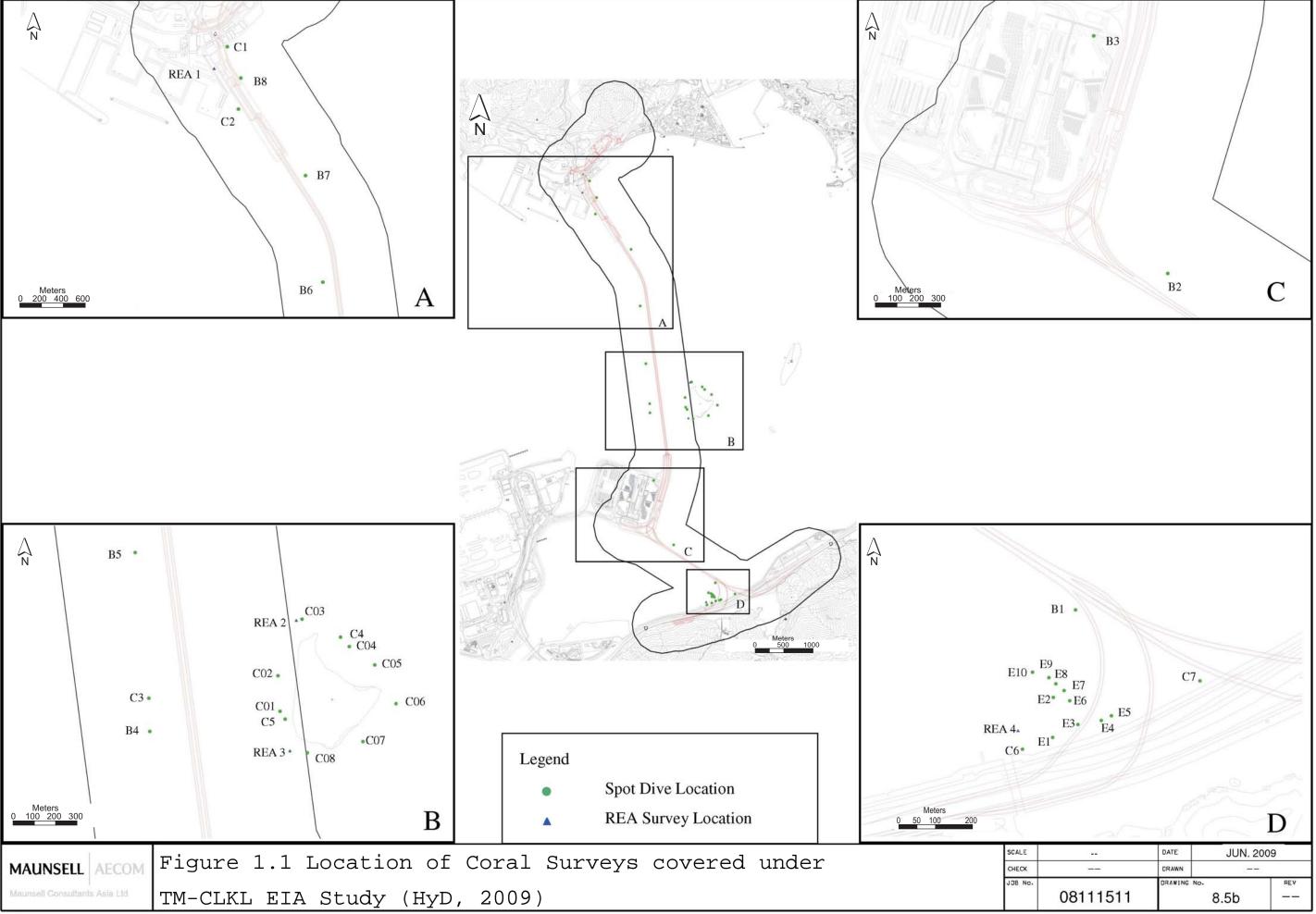
In addition, according to *Section 6.4.3.1* of the EM&A Manual, a preconstruction survey of corals at Pillar Point and potential receptor site(s) should be conducted prior to the translocation works. The suitability of the potential receptor site(s) should be reviewed and verified, and alternative receptor site(s) be proposed if necessary. A Coral Translocation Proposal, which includes findings of the pre-construction surveys, should be submitted for AFCD's agreement. Coral translocation should then be undertaken prior to any major relevant construction works in accordance with the Detailed Coral Translocation Methodology prepared under *Condition 2.6* of the EP-354/2009A.

1.4 PURPOSE OF THIS REPORT

This Detailed Coral Translocation Methodology is prepared for the coral translocation exercise of the Northern Connection Sub-sea Tunnel Section of TM-CLKL. In accordance with *Condition 2.6* of the *EP-354/2009A*, the following information is presented in this document:

- Findings of the pre-construction surveys which were undertaken at the donor site at Pillar Point from December 2012 to February 2013 and at the proposed coral receptor site at Tai Mo To from December 2012 to January 2013;
- Identification of receptor site(s) for the translocated corals from Pillar Point;
- Details of the proposed procedures for the pre-translocation survey;
- Coral translocation method; and
- Post-translocation monitoring method.

This Detailed Coral Translocation Methodology will be submitted to the DEP for approval at least one month before the commencement of construction of the Northern Connection Sub-sea Tunnel Section of the TM-CLKL.



2.1 PRE-CONSTRUCTION SURVEY AT THE DONOR SITE

Spot-check dives and Rapid Ecological Assessment (REA) surveys were conducted at the donor site at Pillar Point. The seabed of the survey site was mainly composed of natural bedrocks, boulders, artificial sloping boulders, and artificial vertical seawall. Three coral species (two hard coral and one gorgonian species) were recorded during the surveys. The survey results at Pillar Point are presented in the following sections.

2.1.1 Spot Check Dive

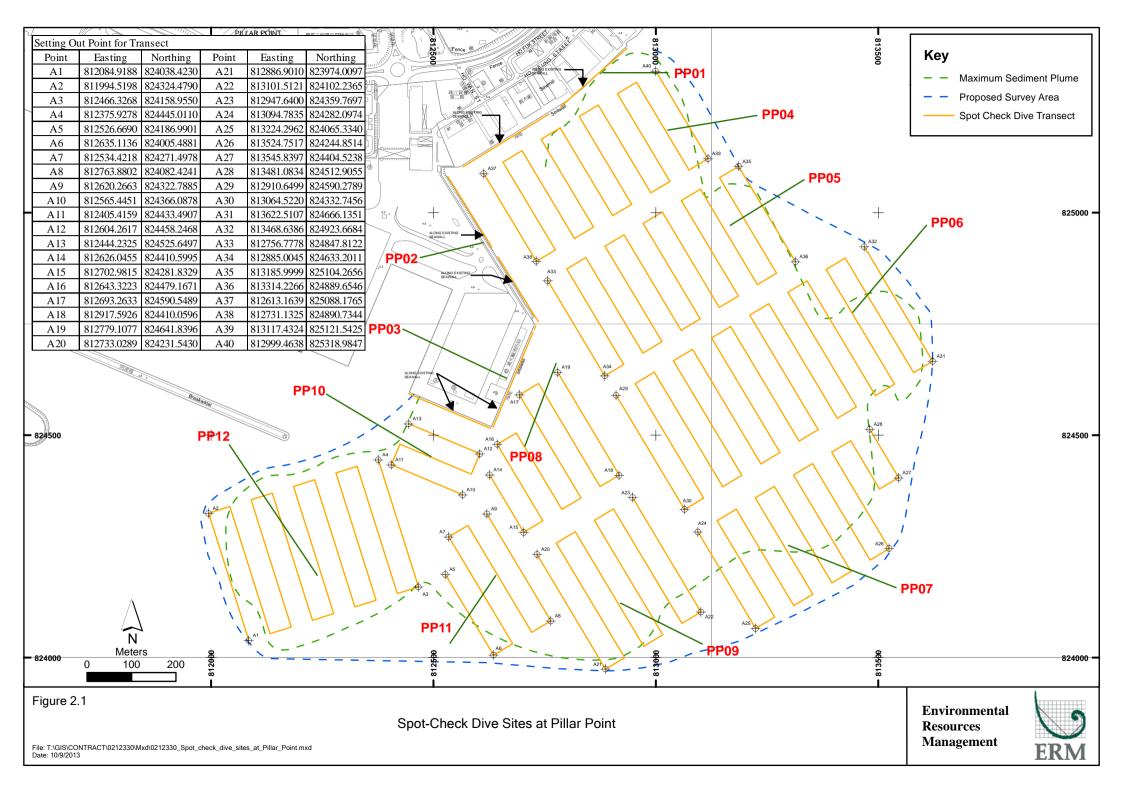
A total of 12 spot-check dives were carried out on 26th – 28th December 2012 as well as 2nd, 3rd, 4th, 8th, 10th, 11th and 14th January 2013 (*Figure 2.1*). The survey sites (PP01 to PP12) were composed of artificial sloping boulders, vertical seawall and sandy / muddy substrates, with water depth ranging from 1 to 15 m. The survey sites supported limited marine life. Two hard coral species and one gorgonian species were found on boulder and seawall surfaces at spot-check dive sites PP01 to PP03. They were hard coral *Oulastrea crispata*, ahermatypic cup coral *Balanophyllia* sp., and gorgonian *Guaiagorgia* sp. The coral species recorded are common in local Hong Kong waters. The percentage cover of the corals found was low (<5%) (*Table 2.1*).

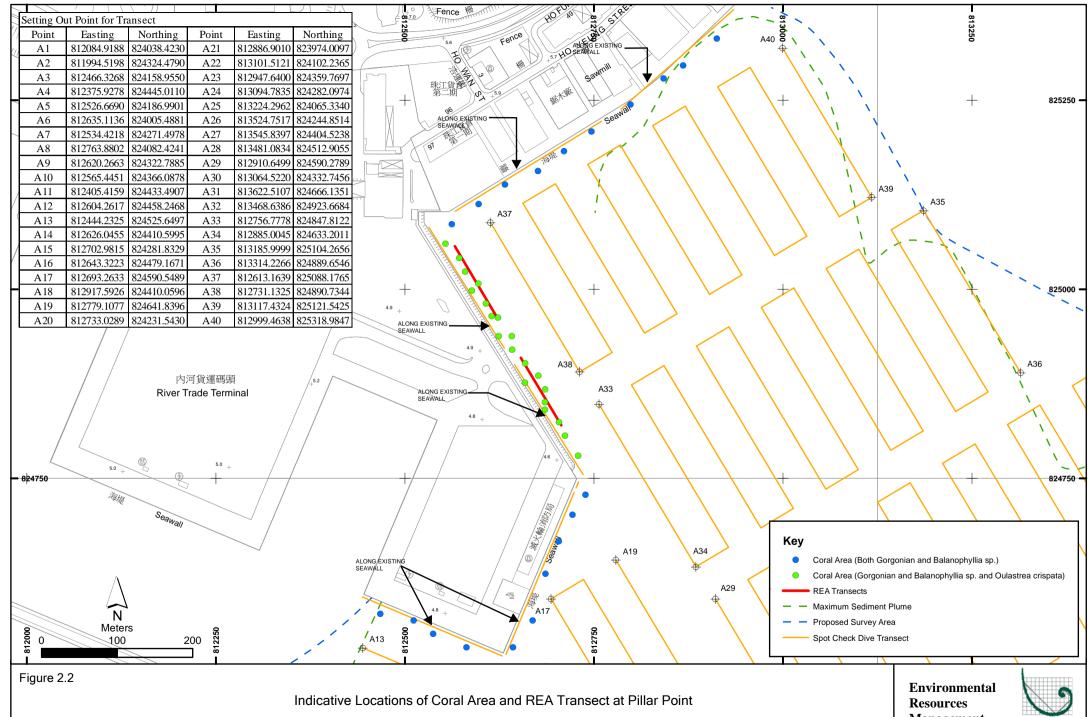
Table 2.1 Species, Coverage and Size of Corals Found at Spot-Check Dive Sites at Pillar Point

Site	Coral Species	Coverage (%)	Size in Height/
			Diameter (cm)
PP01	Balanophyllia sp.	<1%	0.5-1
	Guaiagorgia sp.	<1%	0.1-0.3
PP02	Oulastrea crispata	<5%	5-20
	Balanophyllia sp.	<1%	0.5-1
	Guaiagorgia sp.	<5%	5-30
PP03	Balanophyllia sp.	<1%	0.5-1
	Guaiagorgia sp.	<1%	10-30

2.1.2 *REA*

Two 100 m REA transects were surveyed on 6th February 2013 following the spot-check dives (*Figure 2.2*). *Tables 2.2-3* summarize the ecological and substratum attributes, and the ranks of taxon abundance along the two REA transects.





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Management



Table 2.2 Ecological and Substratum Attributes of the REA Transects at Pillar Point

Ecological Attributes	REA 1 (1)	REA 2 (1)
Hard Coral	1	1
Dead Coral	0	0
Octocoral (Soft Corals and Gorgonians)	1	1
Anemone Beds	0	0
Dead Standing Corals	0	0
Other Benthos (sponges, zoanthids, ascidians and bryozoans)	1	1
Macroalgae	0	0
Substratum Attributes	REA 1 (1)	REA 2 (1)
Bedrock/ Continuous Pavement	0	0
Boulders Blocks (diam. >50cm)	6	5
Boulders Blocks (diam. <50cm)	2	3
Rubble	0	0
Other	0	0
Sand	0	2
Mud/Silt	0	0
Mud	0	0

Note: (1) Rank of percentage cover: 0 = None recorded; 1 = 1-5%; 2 = 6-10%; 3 = 11-30%; 4 = 31-50%; 5 = 51-75%; 6 = 76-100%

Table 2.3 Ranks of Taxon Abundance of the REA Transects at Pillar Point

Benthic Taxon	REA 1 (1)	REA 2 (1)	
Balanophyllia sp.	2	2	
Oulastrea crispata	3	3	
Guaiagorgia sp.	3	3	
Sponges	3	3	
Bryozoans	3	3	
Saccostrea cucullata	3	3	
Perna viridis	2	2	

Note:

Sparse and patchy coverage (1 – 5%) of hard corals (*Balanophyllia* sp. and *Oulastrea crispata*) and gorgonians (*Guaiagorgia* sp.) were recorded during the REA surveys. A total of 470 coral colonies of *Oulastrea crispata* and *Guaiagorgia* sp. were recorded on boulder surfaces along the REA transects at an average depth of 5 m. They included 237 colonies of *Oulastrea crispata* (4 – 20 cm in diameter) and 233 colonies of *Guaiagorgia* sp. (1 – 30 cm in height). In addition, patches of *Balanophyllia* sp. were also found on the boulder surfaces along the shoreline with very low coverage (<1%). As such, the number of *Balanophyllia* sp. colonies was not counted during the REA survey. The recorded corals were in fair health condition.

Fifty-two (52) out of the 470 recorded coral colonies (ie counting *Oulastrea crispata* and *Guaiagorgia* sp. only) were attached to movable boulders (<50 cm in diameter). It is considered technically feasible to translocate these movable boulders to reduce the direct loss of corals. Prior to coral translocation, a more detailed pre-translocation survey is recommended to find out the exact number of coral colonies (both movable and non-movable) within the affected area.

⁽¹⁾ Ordinal Ranks of Taxon Abundance: 0 = Absent; 1 = Sparse; 2 = Uncommon; 3 = Common; 4 = Abundant; 5 = Dominant

Overall, all the corals (*Oulastrea crispata*, *Balanophyllia* sp. and *Guaiagorgia* sp.) recorded during the REA survey are widespread and common across Hong Kong waters especially in the western waters with very low visibility. Owing to their commonness, sparse cover (< 5%), small size (most of the corals) and low species diversity and richness, the coral habitat of the surveyed area is considered as of low ecological value.

More detailed results of the dive surveys are provided in *Appendix A*. Representative photographs of the habitats and species recorded are shown in *Appendix B*.

2.2 PRE-CONSTRUCTION SURVEY AT THE RECEPTOR SITE (TAI MO TO)

Spot-check dives and REA surveys were conducted at the receptor site (Tai Mo To) proposed in the approved EIA Report in December 2012. The seabed of the survey site was mainly composed of natural bedrocks and boulders. Two coral species (one hard coral and one gorgonian species) were recorded during the surveys.

2.2.1 Spot-Check Dive

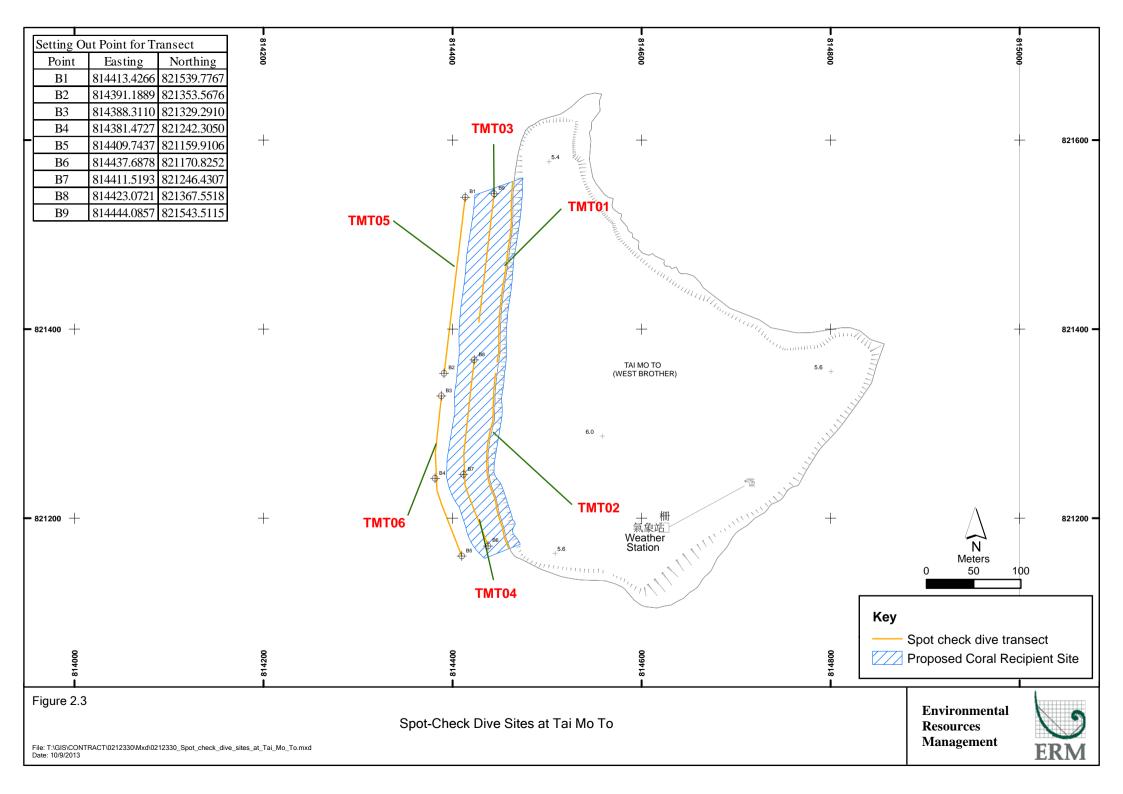
A total of six spot-check dives were carried out on 13th December 2012 (*Figure* 2.3). The survey sites (TMT01 to THW06) were composed of bedrocks, boulders and sandy / muddy substrates, with water depth ranging from 1.5 m to 7.5 m. The survey sites supported limited marine life. One hard coral species and one gorgonian species were found on boulder surfaces at spot-check dive sites TMT01 and TMT02. They were ahermatypic cup coral *Balanophyllia* sp. and gorgonian *Guaiagorgia* sp. The coral species recorded are common in local Hong Kong waters. The percentage cover of the corals found were low (<1%) (*Table* 2.4).

Table 2.4 Species, Coverage and Size of Corals found at Spot-Check Dive Sites at Tai Mo To

Site	Coral Species	Coverage (%)	Size in Height/
			Diameter (cm)
TMT01	Balanophyllia sp.	<1%	<1
	Guaiagorgia sp.	<1%	10-25
TMT02	Balanophyllia sp.	<1%	<1
	Guaiagorgia sp.	<1%	10-25

2.2.2 *REA*

A 100 m REA transect was surveyed on 10th January 2013 following the spotcheck dives (*Figure 2.4*). *Tables 2.5-6* summarize the ecological and substratum attributes, and the ranks of taxon abundance along the REA transect.



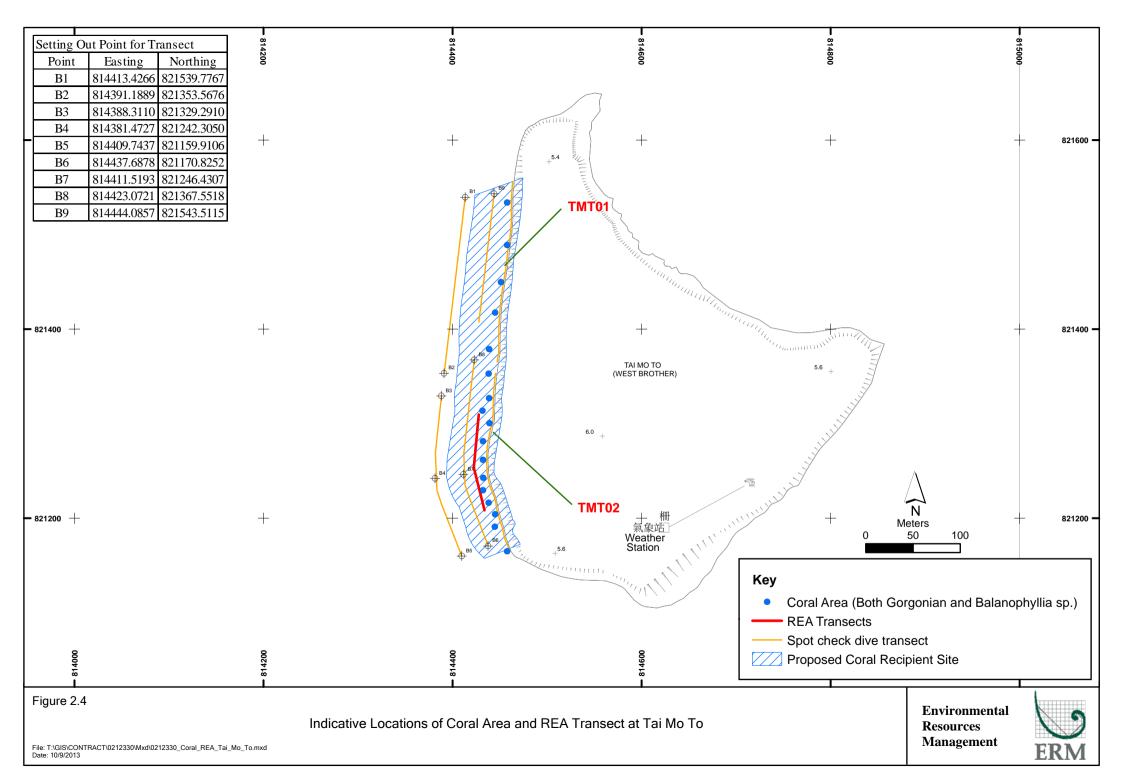


Table 2.5 Ecological and Substratum Attributes of the REA Transects at Tai Mo To

Ecological Attributes	REA 1 (1)
Hard Coral	1
Dead Coral	0
Octocoral (Soft Corals and Gorgonians)	1
Anemone Beds	0
Dead Standing Corals	0
Other Benthos (sponges, zoanthids, ascidians and bryozoans)	1
Macroalgae	0
Substratum Attributes	REA 1 (1)
Bedrock/ Continuous Pavement	2
Boulders Blocks (diam. >50cm)	4
Boulders Blocks (diam. <50cm)	3
Rubble	0
Other	0
Sand	2
Mud/Silt	0
Mud	0

Note: (1) Rank of percentage cover: 0 = None recorded; 1 = 1-5%; 2 = 6-10%; 3 = 11-30%; 4 = 31-50%; 5 = 51-75%; 6 = 76-100%

Table 2.6 Ranks of Taxon Abundance of the REA Transects at Tai Mo To

Benthic Taxon	REA 1 (1)
Balanophyllia sp.	2
Guaiagorgia sp.	2
Sponges	3
Bryozoans	3
Saccostrea cucullata	3
Perna viridis	2
Sabellastarte japonica	2

Note:

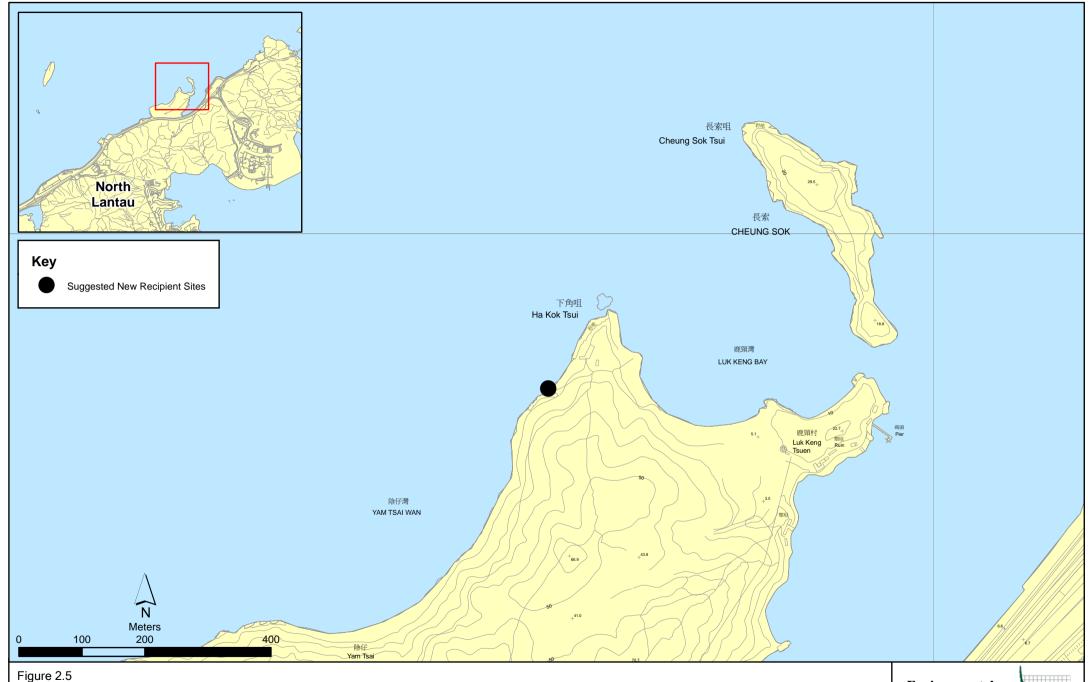
(1) Ordinal Ranks of Taxon Abundance: 0 = Absent; 1 = Sparse; 2 = Uncommon; 3 = Common; 4 = Abundant; 5 = Dominant

Sparse and patchy coverage (<1%) of hard coral (Balanophyllia sp.) and gorgonian (Guaiagorgia sp.) were recorded during the REA survey. A total of 57 colonies of Guaiagorgia sp. (10-25 cm in height) were recorded on bedrock or boulder surfaces along the REA transect at an average depth of 3.5 m. In addition, patches of Balanophyllia sp. were also found on the boulder surfaces along the shoreline with very low coverage (<1%). All recorded corals were in fair health condition.

More detailed results of the dive surveys are provided in *Appendix A*. Representative photographs of the habitats and species recorded are shown in *Appendix B*.

2.3 ALTERNATIVE CORAL RECEPTOR SITE

The EIA of the Project recommended that an area around Tai Mo To could be a suitable location for the receptor site. However, when compared with the donor site at Pillar Point, the underwater visibility at the suggested coral receptor site at Tai Mo To was very low during the spot-check dives and REA surveys and the site is very exposed. Since post-translocation monitoring is required after coral translocation, the very low underwater visibility and rough sea conditions at Tai Mo To would make it difficult to find the displaced easily if the wave is too strong. Therefore, it is recommended to find a more suitable receptor site which is less exposed and with similar coral assemblages to the donar site (ie with presence of Oulastrea crispata, Guaiagorgia sp. and Balanophyllia sp.). Recent coral surveys undertaken under Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Facilities showed that Oulastrea crispata, Guaiagorgia sp. and Balanophyllia sp. were found at Yam Tsai Wan of North Lantau which is a relatively less exposed site (Figure 2.5). It should also be noted that Yam Tsai Wan was selected as the receptor site for the coral translocation exercise of Contract No. HY/2011/03 under which corals had been translocated successful to this receptor site in October 2012. Considering the above, it is recommended to select Yam Tsai Wan as the coral receptor site for the present translocation exercise of the northern landfall.



Suggested Alternative Coral Receptor Site at Yam Tsai Wan, North Lantau

Environmental Resources Management



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3.1 Pre-Translocation and Translocation Surveys at the Donor Site

A coral mapping survey will be conducted at the donor site at Pillar Point as part of the pre-translocation coral survey. The location of the donor site is shown in *Figure 2.2*.

The location of any hard corals and gorgonians will be mapped. The size and health condition (including percentage cover of bleaching, mortality, degree of sedimentation) of the corals will be recorded. The feasibility of translocation of corals including but not limited to those of conservation importance will be assessed.

Coral colonies (i.e. those attached to movable boulders with diameter <50 cm, in good health condition, and feasible for translocation) proposed to be translocated will be identified, mapped and tagged during the survey. Each coral colony will be tagged using laminated, waterproof labels (approximately 20 cm x 10 cm), which will be tied onto boulders just adjacent to the coral colonies. Photograph(s) of each coral colony will be taken and additional information for each of the coral colonies will also be collected (e.g. depth, orientation, size of the attached boulders, general conditions immediately surrounding the coral colonies).

Substratum removal method is not suggested for translocating the three coral species (*Balanophyllia* sp., *Oulastrea crispata* and *Guaiagorgia* sp.) found at Pillar Point. This is because the hard coral species *Balanophyllia* sp. and *Oulastrea crispata* are in encrusting growth form on the attached substrate. In addition, *Balanophyllia* sp. is a solitary coral species with single, small size polyp (ie mostly not larger than 5 mm in diameter for each individual) attached to the substrate. Substratum removal method would not be feasible as that would likely to damage the coral colonies and lead to a very low chance of survival during the translocation process. For the azooxanthellate gorgonian *Guaiagorgia* sp., it depends on filter feeding with the tentacles capturing plankton and particulate matter from the water column. At the receptor site, it would be necessary to attach (or glue) them using epoxy or underwater cement to the seabed of an area with relatively stronger current to facilitate their filter feeding process. High mortality of gorgonian is expected at the receptor site due to the following reasons:

 According to overseas experience of gorgonian translocation, growing edge of the holdfast will recede or die back when the detached gorgonian is being glued to the substrate of the receptor site by epoxy or underwater cement ⁽¹⁾;

Akins North America, Inc. (2011) Amendment No 1 to the Professional Services between the City of Miami Beach, Floria and Akins North America, Inc.

- Under relatively strong current, it is unlikely to be able to attach the gorgonian firmly to the substrate and high mortality is thus expected for the translocated gorgonian; and
- The colony of *Guaiagorgia* sp. does not exhibit an obvious central spine (please refer to *Appendix B* for photos of *Guaiagorgia* sp.) and it would be difficult to glue the detached gorgonian to the substrate, leading to easy detachment by current and consequently high mortality.

Considering the above and the lack of local experiences in adopting substratum removal method for gorgonian translocation, the substratum removal method is not recommended for the target translocated coral species at Pillar Point.

Since underwater visibility at the donor site is very low (<0.5m), relocating all tagged coral colonies after coral mapping is almost impossible. Therefore, coral translocation will be undertaken immediately after locating the movable coral colonies. Further details on the coral translocation procedure are presented in *Section 4*.

3.2 Pre-Translocation Survey at the Receptor Site

It is preferable to a select receptor site with the following characteristics:

- In the vicinity of the original coral colony;
- Not impacted by the Project or other construction/ activities;
- Presence of healthy coral community of the same species and similar hydrographical conditions as donor site; and
- With sufficient space to receive the newly translocated coral colonies.

As mentioned in the previous section, Tai Mo To is not a suitable receptor site due to the exposed and rough sea conditions, and the absence of *Oulastrea crispata*. Recent coral surveys for another project (*Contract No. HY/2011/03: Hong Kong-Zhuhai-Macao Bridge - Hong Kong Link Road*) showed that the coastline of Yam Tsai Wan is an optional coral receptor site for translocation as it shares similar habitat to the existing corals to be translocated (*Figure 2.5*).

A pre-translocation survey will be conducted at the proposed receptor site at Yam Tsai Wan to ensure its suitability before the translocation of corals commenced at the donor site of Pillar Point. A spot-check dive will be conducted at the proposed receptor site and its vicinity to check for the presence of healthy coral colonies such as hard coral *Oulastrea crispata* and gorgonian *Guaiagorgia* sp. which had been observed in previous surveys.

Following the spot-check dive, the substrate type and taxonomic composition of the receptor site will be assessed using REA method. The REA survey will be performed along a 100 m transect parallel to the coastline (based on the preliminary results from the spot-check dives). The substrate type along the

length of the transects will be recorded at 1 m intervals. The benthic cover, taxon abundance, and ecological attributes along the transects will also be recorded in a swathe of 2 m wide, 1 m either side of the transect.

The locations of the REA transects will be recorded on-site using a handheld GPS unit. The number of colonies, sizes and types of corals, their coverage, abundance, depth, health status of coral species will also be recorded. Photographs of representative taxa along the transects will also be taken during the surveys.

Health status of coral will be assessed by the following criteria:

- Gorgonian coral: Percentage of branches exhibiting partial mortality and secretion of mucus.
- Hard coral: Percentage of surface area exhibiting partial mortality and blanched/ bleached area using specially designed Coral Health Monitoring Chart (*Appendix C*).

The benthic cover (Tier I) and taxon abundance (Tier II) of the transect will be assessed in a swathe 2 m wide, 1 m either side of the transect. Two assessment categories (Tiers) will be used in the surveys, as follows:

Tier I – Categorization of Benthic Cover

Upon the completion of each transect, ecological and substratum attributes (*Table 3.1*) will be assigned to standard ranked ordinal categories (*Table 3.2*).

Table 3.1 Tier I Benthic Attribute Categories

Ecological Attributes	Substratum Attributes
Hard Coral	Hard Substrata
Dead Coral	Bedrock/ Continuous Pavement
Octocoral (Soft Corals and Gorgonians)	Boulder blocks (diam. >50cm)
Anemone Beds	Boulder blocks (diam. <50cm)
Dead Standing Corals	Rubble
Other Benthos (sponges, zoanthids, ascidians	Other
and bryozoans)	
Macroalgae	Soft Substrata
	Sand
	Mud/Silt
	Mud

Table 3.2 Tier I Ordinal Ranks of Percentage Cover of Benthic Attributes

Rank	Percentage Cover
0	None Recorded
1	1-5%
2	6-10%
3	11-30%
4	31-50%
5	51-75%
6	76-100%

For substratum attributes, it is preferable to record actual estimates of cover. The percentage of hard substrata vs. soft substrata can be provided (e.g. 80% and 20% respectively). The percentage cover of the types of hard or soft substrata could also then be presented (e.g. bedrock pavement 60%, rubble 20%, sand 15%, mud / silt 5%). Similarly, recording and presenting actual estimates of, for instance, hard and soft coral cover may be more informative (e.g. <1%).

Tier II – Taxonomic Inventories to Define Types of Benthic Communities

An inventory of benthic taxa along each transect will be compiled during the survey. Taxa will be identified in situ to the following levels:

- Hard corals to species, where possible;
- Soft corals, anemones and conspicuous macroalgae to genus level, where possible;
- Other benthos (including sponges, zoanthids, ascidians and bryozoans) to genus level, where possible.

For each transect, each taxon in the inventory will be ranked in terms of abundance in the community (*Table 3.3*). The taxon categories will be ranked in terms of relative abundance of individuals, rather than the contribution to benthic cover along each transect. The ranks are visual assessments of abundance, rather than quantitative counts of each taxon. Representative photos of organisms will be taken.

Table 3.3 Ordinal Ranks of Taxon Abundance

Rank	Relative Abundance
0	Absent
1	Sparse
2	Uncommon
3	Common
4	Abundant
5	Dominant

In order to distinguish the natural variation in health status of corals and the health variation due to coral translocation, a certain number of natural coral colonies (eg 10 colonies) of the same species as those translocated from the donor site within and adjacent to the receptor site will be randomly selected and tagged. Baseline information will be collected for these tagged coral colonies before translocation and the type of information collected will be the same as those collected for the coral colony during the baseline survey at the donor site. The baseline information collected will be used for the purpose of post-translocation monitoring.

Upon completion of the pre-translocation surveys, the requirement for translocation and the required dimensions of the receptor site will be identified
If necessary, fine tuning / adjustment to the location of the preferred receptor site for successful translocation should be considered.

Once the exact location of the receptor site is marked, GPS coordinates will be recorded.

The pre-translocation survey should be carried out by a qualified marine biologist(s) with specialist knowledge of corals and sound experience at identifying sessile benthic taxa in the field. The qualification of the specialists proposed for the dive survey will be provided to and approved by AFCD prior to the pre-translocation survey.

Results of the baseline surveys at the donar and receptor sites will be presented in the Detailed Translocation Report to be submitted after completion of the coral translocation exercise (see *Section 6* below).

4 CORAL TRANSLOCATION METHOD

4.1 CORAL TRANSLOCATION PROCEDURES

The following procedures will be performed during coral translocation to minimize stress and prevent damage to corals, as far as possible.

- Since the underwater visibility at the donor site is very low (<0.5m), relocating all tagged coral colonies after coral mapping is almost impossible. Therefore, coral translocation will be undertaken immediately after locating the movable coral colonies.
- All tagged movable boulder (with diameter <50 cm) supporting coral colony which is selected for translocation will be moved entirely as a whole object, lifted from the sea bottom and loaded to ship/boat with lifting bag.
- The coral colonies transferred onto the vessel will be fully submerged in seawater tanks of suitable size with continuous aeration onboard. Each seawater tank will hold no more than four boulders to avoid overcrowding.
- Ambient water quality parameters such as sea surface water temperature and dissolved oxygen will be measured once (with at least three replicates) at the coral donor site on the day of coral translocation. The seawater quality in the tanks will be checked every 10 minutes to ensure no fluctuation above 10% of ambient occurs to the seawater in which the coral colonies are submerged.
- Corals will be transported to the receptor site as soon as possible on the same day following the removal. The vessel will progress in a slow and steady speed (<5 knots) when approaching close to the receptor site.
- When arriving at the coral receptor site, SCUBA divers, under the supervision of marine biologist with relevant experience, will carefully place the boulders with coral colonies one by one to the seabed in order to minimize disturbance to the seabed and/or sediment. The coral colonies will be positioned to similar depths and orientations as their previous locations at the donor site as far as possible.
- Divers will tag translocated colonies at the receptor site with small plastic labels (e.g. with colony number) anchored or attached on nearby hard substratum using epoxy without touching the corals. All tags will be anchored in vicinity of the coral colonies at distances not so close to interfere with the potential growth. This would allow the revisit of the coral colonies during the post-translocation monitoring.
- Divers will record the size, location, health conditions (percentage of mortality and bleaching), percentage cover of sediment of each

translocated coral colony after the completion of translocation works using the same methodologies adopted in the pre-translocation coral survey. Photographs of each translocated coral upon completion of translocation will be taken and used as a baseline for future monitoring.

4.2 PRECAUTIONARY MEASURES OF CORAL TRANSLOCATION

The following precautionary measures will be adopted during the coral translocation process:

- In the case where any tagged boulder with corals recorded during the pre-translocation survey no longer accommodates live coral growth, the boulder will not be moved. If additional boulders with coral that can be moved are discovered, these boulders will also be incorporated into the translocation works.
- Effort will be made to minimize the amount of contact by the diver and the length of time the boulders/rocks are handled. All the coral colonies attached on the boulders will be kept submerged at all times with a brief unavoidable exposure when transferred onto the vessel.
- The placement of boulders in tanks will ensure that the coral colonies are fully covered by seawater. Coral exposure to air should be avoided as far as possible during the translocation process from the donor site to the receptor site. Shading will also be provided by placing the seawater tanks under roof of the vessel to avoid exposure to direct sunlight.
- Constant supervision of the boulders and the correct orientation of the boulders in the seawater holding tanks will be carried out to ensure coral colonies are not being stressed or damaged on the way to the receptor site.
- The coral translocation should be carried out by a qualified marine biologist(s) with specialist knowledge of corals and sound experience in coral identification and translocation works. The qualification of the specialists proposed for the dive survey shall be provided to and approved by AFCD prior to the coral translocation.

5.1 MONITORING METHODOLOGY

After translocation is complete, an audit survey will be carried out to determine if all corals have been moved. The audit survey may be undertaken on the same day of completion of the coral translocations works or after that. Following the audit survey, the translocated coral colonies as well as the tagged natural coral colonies at the receptor site will be monitored once every three (3) months for a period of 12 months. The size, survival, health conditions (percentage of mortality / bleaching) and percentage cover of sediment of each translocated coral colony will be recorded during the monitoring, using the same methodology adopted during the pretranslocation survey. The general environmental conditions including weather, sea and tidal conditions of the coral receptor site will also be monitored. A sample of survey record form is provided in *Appendix D*.

Photographic records of the translocated and natural coral colonies will be taken as far as possible maintaining the same aspect and orientation as photographs taken for the pre-translocation surveys. All the tags for marking the translocated and natural coral colonies will be removed / retrieved once the monitoring programme is completed.

The results of the post-translocation monitoring should be reviewed with reference to findings of the pre-translocation survey and the data from original colonies at the receptor site.

If observations of any die-off / abnormal conditions of the translocated corals are made during the post-translocation monitoring, the ET should inform the Contractor, Independent Environmental Checker (IEC) / Environmental Project Office (ENPO), and AFCD, and liaise with AFCD to investigate any mitigation measures needed.

Post-translocation monitoring results will be evaluated against Action and Limit Levels. Evaluation will be based on recorded changes in percentage of partial mortality of the corals. Action and Limit Levels are defined in *Table* 5.1.

Table 5.1 Action and Limit Levels for Post-Translocation Coral Monitoring

Parameter	Action Level Definition	Limit Level Definition
Mortality	If during Impact Monitoring a	If during Impact Monitoring a
	15% increase in the percentage	25% increase in the percentage
	of partial mortality on the	of partial mortality on the
	corals occurs at more than 20%	corals occurs at more than 20%
	of the translocated coral	of the translocated coral
	colonies that is not recorded	colonies that is not recorded
	on the original corals at the	on the original corals at the
	receptor site, then the Action	receptor site, then the Limit
	Level is exceeded.	Level is exceeded.

If the defined Action Level or Limit Level for coral monitoring is exceeded, the actions as set out in *Table 5.2* will be implemented.

Table 5.2 Event and Action Plan for Post-Translocation Monitoring

Event	Action							
	ET	「Leader II	EC Se	OR Co	ontractor			
Action Level	1.	Check monitoring data 1.	Discuss monitoring with the ET and 1.	Discuss with the IEC additional 1.	Inform the SOR and confirm			
Exceedance	2.	Inform the IEC, SOR and Contractor of the findings; 2.	the Contractor; Review proposals for additional	monitoring requirements and any other measures proposed by the ET;	notification of the non-compliance in writing;			
	3.	Increase the monitoring to at least once a month to confirm findings;	monitoring and any other measures 2. submitted by the Contractor and	Make agreement on the measures to 2. be implemented.	Discuss with the ET and the IEC and propose measures to the IEC and the			
	4.	Propose mitigation measures for consideration	advise the SOR accordingly.	3.	SOR; Implement the agreed measures.			
Limit Level Exceedance	1.	Undertake Steps 1-4 as in the Action 1. Level Exceedance. If further exceedance of Limit Level, propose 2. enhancement measures for consideration.	Discuss monitoring with the ET and 1. the Contractor; Review proposals for additional monitoring and any other measures 2. submitted by the Contractor and advise the SOR accordingly.	Discuss with the IEC additional 1. monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to 2. be implemented.	Inform the SOR and confirm notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SOR; Implement the agreed measures.			

6.1 TENTATIVE SCHEDULE

Following approval of this Detailed Coral Translocation Methodology, the pre-translocation coral surveys will be undertaken at the receptor site of Yam Tsai Wan in October 2013. The receptor site survey will be followed by the pre-translocation survey and coral translocation at the donar site of Pillar Point which will be undertaken at the same time. Following completion of the coral translocation, an audit survey will be undertaken on the same day of completion of coral translocation or after that. It is expected that the pre-translocation coral surveys, coral translocation and audit survey will be completed by October 2013 and a tentative schedule is presented in *Table 6.1* below.

Table 6.1 Tentative Schedule of Pre-Translocation Coral Surveys, Coral Translocation Works and Audit Survey

Day	Task
Day 1	Pre-translocation survey at the receptor site Yam Tsai Wan.
Day 2	Coral translated from Piller Point;
	Coral translocation from Pillar Point to Yam Tsai Wan.
Day 3	Coral mapping at Pillar Point;
	Coral translocation from Pillar Point to Yam Tsai Wan.
Day 4	Coral mapping at Pillar Point;
,	Coral translocation from Pillar Point to Yam Tsai Wan.
Day 5	Coral mapping at Pillar Point;
•	Coral translocation from Pillar Point to Yam Tsai Wan.
Day 6	Coral mapping at Pillar Point;
•	Coral translocation from Pillar Point to Yam Tsai Wan.
Day 7	Audit survey to confirm that all target coral colonies for translocation have been removed from Pillar Point

The tentative schedule of the quarterly post-translocation monitoring is provided in *Table 6.2* below.

Table 6.2 Schedule of Quarterly Post-Translocation Monitoring

Timing
3 months after the translocation works
6 months after the translocation works
o months after the transfocation works
9 months after the translocation works
12 months after the translocation works
12 months after the translocation works

6.2 REPORTING

A Detailed Translocation Report will be submitted to EPD and AFCD upon the completion of the translocation works. The locations, conditions and photographic records of the translocated corals and the conditions of the receptor site will be detailed in the report. This report will be submitted within two weeks from completion of the coral translocation works which is anticipated to be in late October 2013.

A Post-Translocation Monitoring Report will be submitted to EPD and AFCD two weeks after completion of each quarterly survey. The results of the post-translocation monitoring surveys should be reviewed with reference to the pre-translocation survey results and findings.

7 REFERENCE

Highways Department, 2009. Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - EIA Report. Prepared by Ove Arup & Partners Hong Kong Limited for Highways Department, The Government of Hong Kong Special Administrative Region.

Highways Department, 2009. Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - EM&A Manual. Prepared by Ove Arup & Partners Hong Kong Limited for Highways Department, The Government of Hong Kong Special Administrative Region.

Highways Department, 2009. Tuen Mun – Chek Lap Kok Link – Investigation – EIA Report. Prepared by AECOM Asia Co. Ltd. for Highways Department, The Government of Hong Kong Special Administrative Region.

Highways Department, 2013. Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities – Third Post-Translocation Monitoring Report. Prepared by BMT Asia Pacific Limited for Highways Department, The Government of Hong Kong Special Administrative Region.

Highways Department, 2013. Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities – Forth Post-Translocation Monitoring Report. Prepared by BMT Asia Pacific Limited, for Highways Department, The Government of Hong Kong Special Administrative Region.

Appendix A

Raw Data Recorded during the Dive Surveys at Pillar Point and Tai Mo To

Table 1 Weather Condition during the Spot-Check Dives at Pillar Point

Date	Weather Condition	Average Underwater Visibility
December 2012	Northeast force 4 to 5	0.5m
	Sunny	
December 2012	Northeast force 4 to 5 Sunny	1m
December 2012	East force 4 to 5	1m
	Sunny	
January 2013	East force 3 to 4	1.5m
	Sunny	
January 2013	East force 4 to 5	1.5m
	Sunny	
January 2013	North force 4 to 5	0.5m
	Sunny	
January 2013	North force 3 to 4	0.5m
	Sunny	
January 2013	Northeast force 3 to 4	1.5m
	Sunny	
January 2013	Northeast force 4 to 5	0.5m
	Sunny	
January 2013	Northeast force 3 to 4	0.5m
	Sunny	

Table 2 GPS Location, Route Distance, Minimum Depth, Maximum Depth, Bottom Substrate and Underwater Visibility at Spot-Check Dive Sites at Pillar Point

Site	Location (GPS)	Route	Min.	Max.	Bottom	Visibility
	(Starting Point)	Distance	Depth	Depth	Substrate	(m)
		(m)	(m)	(m)		
PP01	825367.588N	630	4	6	Vertical Seawall	0.5
	812936.978E					
PP02	825084.987N	390	1.4	7	Artificial	1
	812526.287E				Sloping	
					Boulders	
PP03	824757.617N	470	4.5	7	Vertical Seawall	1.5
	812732.638E					
PP04	825318.9847N	2700	6	8	Sand/ Mud	0.5
	812999.4638E					
PP05	825104.2656N	3100	8	12	Sand/ Mud	0.5
	813185.9999E					
PP06	824923.6684N	4300	8	14	Sand/Mud	0.5
	813468.6386E					
PP07	824512.9055N	2400	12	15	Sand/Mud	0.5
	813481.0834E					
PP08	824641.8396N	1470	7	10	Sand/ Mud	0.5
	812779.1077E					
PP09	824359.7697N	1800	10	14	Sand/Mud	0.5
	812947.6400E					
PP10	824525.6497N	680	7.5	9	Sand/Mud	0.5
	8124444.2325E					
PP11	824322.7885N	1400	10	14	Sand/Mud	0.5
	812620.2663E					
PP12	824445.0110N	2800	7	11	Sand/ Mud	0.5
	812375.9278E					

Table 3 Species, Coverage and Size of Corals found at Spot-Check Dive Sites at Pillar Point

Site	Coral Species	Coverage	Size in Height/ Diameter (cm)
PP01	Balanophyllia sp.	<1%	0.5-1
	Guaiagorgia sp.	<1%	10-30
PP02	Oulastrea crispata	<5%	5-20
	Balanophyllia sp.	<1%	0.5-1
	Guaiagorgia sp.	<5%	5-30
PP03	Balanophyllia sp.	<1%	0.5-1
	Guaiagorgia sp.	<1%	10-30

Table 4 Weather Condition during the REA Survey at Pillar Point

Date	Weather Condition	Average Underwater Visibility
February 2013	East force 4 to 5 Sunny	0.5m

Table 5 GPS of Transect Starting Point and End Point, Maximum Depth, Bottom Substrate and Underwater Visibility of REA Transects at Pillar Point

Transect	t Location (GPS)	Location (GPS)	Max.	Bottom	Visibility
	(Starting Point)	(End Point)	Depth (m)	Substrate	(m)
REA 1	825058.724N	824960.204N	5	Artificial Sloping	0.5
	812552.850E	812610.492E		Boulders	
REA 2	824918.632N	824813.338N	5	Artificial Sloping	0.5
	812640.756E	812702.681E		Boulders	

Table 6 Size and Health Condition of Coral Colonies found at Transect REA 1 at Pillar Point

Coral Number	Coral Species	Size in Height/ Diameter (cm)	Distance on Transect (m)	Health Condition	Translocation Feasibility (1)
1	Guaiagorgia sp.	13	0.1	Fair	No
2	Guaiagorgia sp.	12	0.1	Fair	No
3	Guaiagorgia sp.	15	0.2	Fair	No
4	Guaiagorgia sp.	20	0.2	Fair	No
5	Guaiagorgia sp.	12	0.3	Fair	No
6	Oulastrea crispata	15	0.3	Fair	No
7	Guaiagorgia sp.	21	0.4	Fair	No
8	Oulastrea crispata	18	0.5	Fair	No
9	Oulastrea crispata	5	0.5	Fair	No
10	Oulastrea crispata	15	0.5	Fair	No
11	Oulastrea crispata	10	0.6	Fair	No
12	Oulastrea crispata	12	0.6	Fair	No

⁽¹⁾ The translocation feasibility was determined based on the size of boulders measured at the time of the preconstruction survey. Corals that were attached to movable boulders of <50 cm in diameter were considered feasible to be translocated. Further evaluation of the translocation feasibility will be undertaken during the pretranslocation survey according to requirements stated in the current Detailed Coral Translocation Methodology.

			C!=- !			
Number Coral Species Diameter (cm)	Coral			Distance on	Health	Translocation
Cem		Coral Species	-			
14 Guaingorgia sp. 25 1.2 Fair No 15 Guaingorgia sp. 13 1.4 Fair No 16 Guaingorgia sp. 13 1.6 Fair No 17 Guaingorgia sp. 15 1.7 Fair No 18 Guaingorgia sp. 15 1.7 Fair No 19 Oulastrea crispata 10 2.3 Fair No 20 Oulastrea crispata 10 2.3 Fair No 21 Oulastrea crispata 7 2.4 Fair No 22 Oulastrea crispata 11 2.6 Fair No 24 Oulastrea crispata 11 2.6 Fair No 25 Oulastrea crispata 11 2.6 Fair No 26 Oulastrea crispata 10 2.8 Fair No 27 Oulastrea crispata 10 2.8 Fair No <t< th=""><th>- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th></th><th></th><th></th><th></th><th>10001011109</th></t<>	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					10001011109
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18	16	Guaiagorgia sp.	15	1.4	Fair	No
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Coral Number	Coral Species	Size in Height / Diameter (cm)	Distance on Transect (m)	Health Condition	Translocation Feasibility (1)
69	Guaiagorgia sp.	23	7.9	Fair	No
70	Guaiagorgia sp.	21	8.4	Fair	No
71	Guaiagorgia sp.	19	8.4	Fair	No
72	Guaiagorgia sp.	23	8.9	Fair	No
73	Guaiagorgia sp.	15	8.9	Fair	No
74	Guaiagorgia sp.	15	8.9	Fair	No
75	Guaiagorgia sp.	19	9.6	Fair	No
76	Guaiagorgia sp.	10	11	Fair	No
77	Guaiagorgia sp.	15	11	Fair	No
78	Guaiagorgia sp.	19	11	Fair	No
79	Guaiagorgia sp.	10	11.7	Fair	No
80	Guaiagorgia sp.	25	11.8	Fair	No
81	Oulastrea crispata	13	12.5	Fair	Yes
82	Oulastrea crispata	19	12.5	Fair	Yes
83	Oulastrea crispata	10	12.5	Fair	Yes
84	Guaiagorgia sp.	25	13.2	Fair	No
85	Guaiagorgia sp.	21	14.4	Fair	No
86	Guaiagorgia sp.	19	14.4	Fair	No
87	Oulastrea crispata	15	15.6	Fair	No
88	Oulastrea crispata	20	16.6	Fair	No
89	Oulastrea crispata	10	16.7	Fair	No
90	Oulastrea crispata	11	16.7	Fair	No
91	Guaiagorgia sp.	15	25.6	Fair	No
92	Guaiagorgia sp.	20	25.6	Fair	No
93	Guaiagorgia sp.	28	29.2	Fair	Yes
94	Guaiagorgia sp.	10	29.7	Fair	No
95	Guaiagorgia sp.	11	32.4	Fair	No
96	Guaiagorgia sp.	10	36	Fair	No
97	Oulastrea crispata	6	36	Fair	No
98	Oulastrea crispata	5	36.2	Fair	No
99	Oulastrea crispata	9	36.2	Fair	No
100	Oulastrea crispata	10	36.2	Fair	No
101	Guaiagorgia sp.	11	37.7	Fair	No
102	Guaiagorgia sp.	19	37.7	Fair	Yes
103	Guaiagorgia sp.	21	37.7	Fair	No
104	Guaiagorgia sp.	17	37.9	Fair	No
105	Guaiagorgia sp.	16	37.9	Fair	No
106	Oulastrea crispata	20	42	Fair	No
107	Oulastrea crispata	10	42.1	Fair	No
108	Oulastrea crispata	11	42.1	Fair	No
109	Guaiagorgia sp.	14	42.1	Fair	No
110	Guaiagorgia sp.	22	42.2	Fair	No
111	Guaiagorgia sp.	10	42.2	Fair	No
112	Guaiagorgia sp.	13	43.1	Fair	No
113	Guaiagorgia sp.	16	43.2	Fair	No
114	Guaiagorgia sp.	23	43.2	Fair	No
115	Guaiagorgia sp.	23	43.3	Fair	No
116	Guaiagorgia sp.	19	43.3	Fair	No
117	Oulastrea crispata	18	0.1	Fair	No
118	Oulastrea crispata	5	44.1	Fair	No
119	Oulastrea crispata	5	44.1	Fair	No
120	Oulastrea crispata	7	44.2	Fair	No
121	Oulastrea crispata	4	44.2	Fair	No
122	Oulastrea crispata	15	44.2	Fair	No
123	Oulastrea crispata	20	44.2	Fair	No
124	Oulastrea crispata	19	44.3	Fair	No

Coral Number	Coral Species		Health Condition	Translocation Feasibility (1)	
125	Oulastrea crispata	17	44.5	Fair	No
126	Oulastrea crispata	5	44.5	Fair	No
127	Guaiagorgia sp.	13	46.1	Fair	No
128	Guaiagorgia sp.	15	46.1	Fair	No
129	Guaiagorgia sp.	13	46.2	Fair	No
130	Guaiagorgia sp.	19	46.2	Fair	No
131	Guaiagorgia sp.	23	46.2	Fair	No
132	Guaiagorgia sp.	20	46.3	Fair	No
133	Oulastrea crispata	14	46.8	Fair	No
134	Oulastrea crispata	9	46.8	Fair	No
135	Oulastrea crispata	5	46.8	Fair	No
136	Oulastrea crispata	18	46.8	Fair	No
137	Oulastrea crispata	6	46.8	Fair	No
138	Oulastrea crispata	14	46.9	Fair	No
139	Oulastrea crispata	11	46.9	Fair	No
140	Oulastrea crispata	7	46.9	Fair	No
141	Oulastrea crispata	6	47	Fair	No
142	Oulastrea crispata	8	47	Fair	No
143	Oulastrea crispata	10	47	Fair	No
144	Oulastrea crispata	11	47.3	Fair	No
145	Oulastrea crispata	7	47.3	Fair	No
146	Oulastrea crispata	5	47.3	Fair	No
147	Oulastrea crispata	18	47.3	Fair	No
148	Oulastrea crispata	8	47.3	Fair	No
149	Guaiagorgia sp.	22	47.5	Fair	No
150	Guaiagorgia sp.	20	47.5	Fair	No
151	Guaiagorgia sp.	26	47.6	Fair	No
152	Guaiagorgia sp.	18	47.6	Fair	No
153	Guaiagorgia sp.	10	47.6	Fair	No
154	Guaiagorgia sp.	16	47.9	Fair	No
155	Guaiagorgia sp.	22	47.9	Fair	No
156	Guaiagorgia sp.	15	47.9	Fair	No
157	Oulastrea crispata	8	52.1	Fair	Yes
158	Oulastrea crispata	7	52	Fair	Yes
159	Oulastrea crispata	6	52.1	Fair	No
160	Oulastrea crispata	9	52.7	Fair	No
161	Oulastrea crispata	10	52.7	Fair	No
162	Oulastrea crispata	11	52.7	Fair	No
163	Guaiagorgia sp.	13	57.2	Fair	No
164	Guaiagorgia sp.	15	57.2	Fair	No
165	Oulastrea crispata	10	57.3	Fair	No
166	Oulastrea crispata	7	57.3	Fair	No
167	Guaiagorgia sp.	19	65.2	Fair	No
168	Guaiagorgia sp.	15	65.2	Fair	No
169	Guaiagorgia sp.	16	65.3	Fair	No
170	Oulastrea crispata	19 15	6.57	Fair	No No
171 172	Oulastrea crispata	15 10	65.7 65.7	Fair Fair	No No
172	Oulastrea crispata Oulastrea crispata	10	65.7 65.8	Fair	No No
173 174	Oulastrea crispata	11 15	65.8 65.8	Fair Fair	No No
174 175	Oulastrea crispata	5	65.8	Fair Fair	Yes
175 176	Oulastrea crispata	5 18	65.8	Fair Fair	Yes
176 177	Oulastrea crispata	8	65.8 65.9	Fair Fair	Yes
177	Oulastrea crispata	o 5	65.9 65.9	Fair Fair	No
178	Oulastrea crispata	8	65.9	Fair	No
180	Oulastrea crispata	7	66	Fair	No
100	Sumorren erropuru	•	00	1 411	110

Coral Number	Coral Species		Health Condition	Translocation Feasibility (1)	
181	Oulastrea crispata	11	66.2	Fair	No
182	Oulastrea crispata	10	66.2	Fair	No
183	Oulastrea crispata	9	66.2	Fair	No
184	Oulastrea crispata	12	66.2	Fair	No
185	Guaiagorgia sp.	1	67.2	Fair	No
186	Guaiagorgia sp.	20	67.3	Fair	No
187	Guaiagorgia sp.	15	67.3	Fair	No
188	Guaiagorgia sp.	19	68.9	Fair	Yes
189	Guaiagorgia sp.	11	68.9	Fair	Yes
190	Guaiagorgia sp.	16	68.9	Fair	No
191	Oulastrea crispata	8	70.1	Fair	No
192	Oulastrea crispata	9	70.1	Fair	No
193	Oulastrea crispata	7	70.1	Fair	No
194	Oulastrea crispata	6	70.1	Fair	No
195	Oulastrea crispata	10	70.2	Fair	No
196	Oulastrea crispata	11	70.2	Fair	Yes
197	Oulastrea crispata	7	70.2	Fair	Yes
198	Guaiagorgia sp.	15	70.4	Fair	No
199	Guaiagorgia sp.	11	70.4	Fair	No
200	Guaiagorgia sp.	17	70.4	Fair	No
201	Guaiagorgia sp.	12	70.4	Fair	No
202	Oulastrea crispata	12	70.9	Fair	No
203	Oulastrea crispata	8	70.9	Fair	No
204	Oulastrea crispata	10	70.9	Fair	No
205	Oulastrea crispata	6	70.9	Fair	No
206	Oulastrea crispata	7	71	Fair	No
207	Oulastrea crispata	9	71	Fair	No
208	Oulastrea crispata	12	71	Fair	No
209	Guaiagorgia sp.	16	71.5	Fair	No
210	Guaiagorgia sp.	15	71.5	Fair	Yes
211	Guaiagorgia sp.	18	71.6	Fair	Yes
212	Guaiagorgia sp.	21	71.6	Fair	No
213	Guaiagorgia sp.	11	71.6	Fair	No
214	Guaiagorgia sp.	27	71.6	Fair	No
215	Oulastrea crispata	8	71.7	Fair	No
216	Oulastrea crispata	7	71.7	Fair	Yes
217	Guaiagorgia sp.	10	71.8	Fair	Yes
218	Guaiagorgia sp.	15	71.8	Fair	Yes
219	Guaiagorgia sp.	15	71.8	Fair	No
220	Guaiagorgia sp.	13	71.9	Fair	No
221	Oulastrea crispata	10	74.2	Fair	No
222	Oulastrea crispata	14	74.2	Fair	Yes
223	Oulastrea crispata	10	74.2	Fair	Yes
224	Oulastrea crispata	7	74.2	Fair	No No
225	Oulastrea crispata	9	74.5	Fair	No No
226	Oulastrea crispata	11	74.5	Fair	No No
227	Oulastrea crispata	5	74.5	Fair	No No
228	Oulastrea crispata	6	74.5	Fair	No No
229	Guaiagorgia sp.	1	74.8	Fair	No No
230	Guaiagorgia sp.	28	74.8	Fair Fair	No No
231	Guaiagorgia sp.	19 23	74.8	Fair Fair	No No
232	Guaiagorgia sp.	23 16	74.8 75.1	Fair Fair	
233234	Oulastrea crispata	16 6	75.1 75.1	Fair Fair	No No
234	Oulastrea crispata Oulastrea crispata	6 18	75.1 75.1	Fair Fair	No No
235	Oulastrea crispata	18 9	75.1 75.1	Fair Fair	No No
200	Sumstien Crispuid	,	70.1	1.011	110

Coral Number	Coral Species	Size in Height/ Diameter (cm)	Distance on Transect (m)	Health Condition	Translocation Feasibility (1)
237	Oulastrea crispata	8	75.3	Fair	No
238	Guaiagorgia sp.	23	75.3	Fair	No
239	Guaiagorgia sp.	21	75.4	Fair	No
240	Guaiagorgia sp.	15	75.4	Fair	No
241	Guaiagorgia sp.	16	75.5	Fair	No
242	Oulastrea crispata	6	79	Fair	No
243	Oulastrea crispata	7	79.1	Fair	No
244	Oulastrea crispata	6	79.1	Fair	Yes
245	Oulastrea crispata	9	79.2	Fair	Yes
246	Oulastrea crispata	11	79.2	Fair	No
247	Oulastrea crispata	7	79.2	Fair	No
248	Guaiagorgia sp.	25	83	Fair	No
249	Guaiagorgia sp.	16	83	Fair	No
250	Guaiagorgia sp.	19	83.1	Fair	No
251	Guaiagorgia sp.	11	83.1	Fair	No
252	Oulastrea crispata	6	83.1	Fair	No
253	Oulastrea crispata	7	83.2	Fair	No
254	Oulastrea crispata	5	83.2	Fair	No
255	Oulastrea crispata	11	83.2	Fair	No
256	Oulastrea crispata	10	83.4	Fair	No
257	Oulastrea crispata	17	83.4	Fair	No
258	Oulastrea crispata	20	83.4	Fair	No
259	Oulastrea crispata	9	84.7	Fair	No
260	Oulastrea crispata	15	84.7	Fair	No
261	Oulastrea crispata	15	84.7	Fair	Yes
262	Oulastrea crispata	5	94.8	Fair	Yes
263	Oulastrea crispata	7	84.8	Fair	Yes
264	Oulastrea crispata	11	84.9	Fair	No
265	Oulastrea crispata	9	84.9	Fair	No
266	Guaiagorgia sp.	19	87	Fair	No
267	Guaiagorgia sp.	21	87.2	Fair	No
268	Guaiagorgia sp.	18	87.4	Fair	Yes
269	Guaiagorgia sp.	22	87.5	Fair	Yes
270	Guaiagorgia sp.	30	87.5	Fair	No
271	Guaiagorgia sp.	11	88	Fair	No
272	Guaiagorgia sp.	16	88.1	Fair	No
273	Oulastrea crispata	8	90.4	Fair	No
274	Guaiagorgia sp.	21	90.5	Fair	Yes
275	Guaiagorgia sp.	19	94	Fair	No

Table 7 Size and Health Condition of Coral Colonies found at Transect REA 2 at Pillar Point

Coral Number	Coral Species	Size in Height/ Diameter (cm)	Distance on Transect (m)	Health Condition	Translocation Feasibility
1	Guaiagorgia sp.	15	0	Fair	No
2	Guaiagorgia sp.	17	0	Fair	No
3	Guaiagorgia sp.	21	0.3	Fair	No
4	Guaiagorgia sp.	22	0.3	Fair	No
5	Guaiagorgia sp.	17	0.5	Fair	No
6	Guaiagorgia sp.	10	0.5	Fair	No
7	Guaiagorgia sp.	30	0.6	Fair	No
8	Guaiagorgia sp.	12	0.6	Fair	No

Coral Number	Coral Species	Size in Height/ Diameter (cm)	Distance on Transect (m)	Health Condition	Translocation Feasibility
9	Guaiagorgia sp.	15	0.7	Fair	No
10	Guaiagorgia sp.	14	1	Fair	No
11	Guaiagorgia sp.	23	1	Fair	No
12	Oulastrea crispata	7	1.5	Fair	No
13	Oulastrea crispata	8	1.5	Fair	No
14	Oulastrea crispata	11	1.5	Fair	No
15	Oulastrea crispata	13	1.6	Fair	No
16	Oulastrea crispata	6	1.6	Fair	No
17	Guaiagorgia sp.	22	1.7	Fair	No
18	Guaiagorgia sp.	15	1.8	Fair	No
19	Guaiagorgia sp.	17	1.8	Fair	No
20	Guaiagorgia sp.	18	2.1	Fair	No
21	Guaiagorgia sp.	23	2.1	Fair	No
22	Guaiagorgia sp.	20	3.2	Fair	No
23	Oulastrea crispata	16	3.5	Fair	No
24	Oulastrea crispata	20	3.5	Fair	No
25	Oulastrea crispata	16	3.6	Fair	No
26	Oulastrea crispata	7	3.6	Fair	No
27	Oulastrea crispata	5	3.6	Fair	No
28	Guaiagorgia sp.	11	4.5	Fair	No
29	Guaiagorgia sp.	10	4.5	Fair	No
30	Guaiagorgia sp.	22	4.7	Fair	No
31	Guaiagorgia sp.	16	5.1	Fair	No
32	Guaiagorgia sp.	15	5.1	Fair	No
33	Guaiagorgia sp.	15	5.1	Fair	No
34 35	Oulastrea crispata	16	6.2 6.2	Fair Fair	Yes Yes
36	Oulastrea crispata Oulastrea crispata	10 11	6.4	Fair	Yes
37	Oulastrea crispata		6.4	Fair	No
38	Oulastrea crispata		6.7	Fair	No
39	Oulastrea crispata	10	6.7	Fair	No
40	Guaiagorgia sp.	23	6.9	Fair	No
41	Guaiagorgia sp.	19	6.9	Fair	No
42	Guaiagorgia sp.	17	7.4	Fair	No
43	Guaiagorgia sp.	10	7.4	Fair	No
44	Guaiagorgia sp.	15	7.4	Fair	No
45	Guaiagorgia sp.	22	8.9	Fair	No
46	Guaiagorgia sp.	21	8.9	Fair	No
47	Guaiagorgia sp.	16	10.4	Fair	No
48	Oulastrea crispata	15	10.6	Fair	No
49	Oulastrea crispata	6	10.6	Fair	No
50	Oulastrea crispata	10	10.6	Fair	No
51	Guaiagorgia sp.	22	13.4	Fair	No
52	Guaiagorgia sp.	10	13.4	Fair	No
53	Guaiagorgia sp.	15	13.4	Fair	No
54	Guaiagorgia sp.	16	13.6	Fair	No No
55 56	Guaiagorgia sp.	22 27	14.5 15.2	Fair Fair	No Yes
5 7	Guaiagorgia sp. Guaiagorgia sp.	17	15.2	Fair	Yes
58	Guaiagorgia sp.	15	15.4	Fair	No
59	Guaiagorgia sp.	11	15.4	Fair	No
60	Oulastrea crispata	7	17	Fair	No
61	Oulastrea crispata	6	17.3	Fair	No
62	Oulastrea crispata	8	17.3	Fair	No
63	Oulastrea crispata	20	17.3	Fair	No
64	Oulastrea crispata	11	17.4	Fair	Yes

State	Coral Number	Coral Species	Size in Height/ Diameter (cm)	Distance on Transect (m)	Health Condition	Translocation Feasibility
67 Oulastrea crispata 14 17.6 Fair No 68 Guaiagorgia sp. 13 21.2 Fair No 69 Guaiagorgia sp. 16 21.4 Fair No 70 Guaiagorgia sp. 17 22.8 Fair Yes 71 Guaiagorgia sp. 10 32.4 Fair No 72 Guaiagorgia sp. 11 32.5 Fair No 74 Guaiagorgia sp. 16 36 Fair No 75 Guaiagorgia sp. 16 36 Fair No 76 Guaiagorgia sp. 16 39.1 Fair No 77 Oulastrea crispata 16 39.1 Fair No 78 Oulastrea crispata 14 39.2 Fair No 79 Oulastrea crispata 11 39.2 Fair No 80 Oulastrea crispata 1 39.2 Fair No <	65	Oulastrea crispata		17.4	Fair	Yes
68 Guaiogorgia sp. 13 21.2 Fair No 69 Guaiogorgia sp. 16 21.4 Fair No 70 Guaiogorgia sp. 14 22.5 Fair Yes 71 Guaiogorgia sp. 17 22.8 Fair Yes 72 Guaiogorgia sp. 10 32.4 Fair No 73 Guaiogorgia sp. 11 32.5 Fair No 74 Guaiogorgia sp. 16 36 Fair No 76 Guaiogorgia sp. 15 36.1 Fair No 76 Guaiogorgia sp. 15 36.1 Fair No 77 Oulastrea crispata 16 39.1 Fair No 79 Oulastrea crispata 17 39.2 Fair No 80 Oulastrea crispata 11 39.2 Fair No 81 Oulastrea crispata 7 39.2 Fair No <	66	Oulastrea crispata	8	17.4	Fair	No
69 Guaiagorgia sp. 16 21.4 Fair No 70 Guaiagorgia sp. 14 22.5 Fair Yes 71 Guaiagorgia sp. 17 22.8 Fair Yes 72 Guaiagorgia sp. 10 32.4 Fair No 74 Guaiagorgia sp. 16 36 Fair No 74 Guaiagorgia sp. 16 36 Fair No 75 Guaiagorgia sp. 15 36.1 Fair No 76 Guaiagorgia sp. 16 39.1 Fair No 76 Guaistrea crispata 14 39.2 Fair No 77 Oulastrea crispata 17 39.2 Fair No 78 Oulastrea crispata 17 39.2 Fair No 80 Oulastrea crispata 11 39.2 Fair No 81 Oulastrea crispata 8 39.6 Fair No	67	Oulastrea crispata	14	17.6	Fair	No
70 Guaiagorgia sp. 14 22.5 Fair Yes 71 Guaiagorgia sp. 17 22.8 Fair Yes 72 Guaiagorgia sp. 10 32.4 Fair No 73 Guaiagorgia sp. 11 32.5 Fair No 74 Guaiagorgia sp. 15 36.1 Fair No 75 Guaiagorgia sp. 15 36.1 Fair No 76 Guaiagorgia sp. 15 36.1 Fair No 76 Guaisgorgia sp. 14 39.2 Fair No 78 Oulastrea crispata 14 39.2 Fair No 78 Oulastrea crispata 11 39.2 Fair No 80 Oulastrea crispata 7 39.2 Fair No 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 1 42.7 Fair No	68	Guaiagorgia sp.	13	21.2	Fair	No
71 Guaiagorgia sp. 17 22.8 Fair Yes 72 Guaiagorgia sp. 21 22.9 Fair Yes 73 Guaiagorgia sp. 10 32.4 Fair No 74 Guaiagorgia sp. 16 36 Fair No 75 Guaiagorgia sp. 15 36.1 Fair No 76 Guaiagorgia sp. 15 36.1 Fair No 76 Guaiagorgia sp. 16 39.1 Fair No 77 Oulastrea crispata 14 39.2 Fair No 79 Oulastrea crispata 17 39.2 Fair Yes 80 Oulastrea crispata 8 39.6 Fair No 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 5 42 Fair No 84 Oulastrea crispata 10 42.7 Fair No	69	Guaiagorgia sp.	16	21.4	Fair	No
72 Guaiagorgia sp. 21 22.9 Fair Yes 73 Guaiagorgia sp. 10 32.4 Fair No 74 Guaiagorgia sp. 11 32.5 Fair No 75 Guaiagorgia sp. 16 36 Fair No 76 Guaiagorgia sp. 15 36.1 Fair No 77 Oulastrea crispata 14 39.2 Fair No 79 Oulastrea crispata 17 39.2 Fair No 80 Oulastrea crispata 1 39.2 Fair No 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 6 39.6 Fair No 84 Oulastrea crispata 5 42 Fair No 85 Oulastrea crispata 1 42.7 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No	70	Guaiagorgia sp.	14	22.5	Fair	Yes
73 Guaiagorgia sp. 10 32.4 Fair No 74 Guaiagorgia sp. 11 32.5 Fair No 75 Guaiagorgia sp. 16 36 Fair No 76 Guaiagorgia sp. 15 36.1 Fair No 77 Oulastrea crispata 14 39.2 Fair No 78 Oulastrea crispata 14 39.2 Fair No 79 Oulastrea crispata 11 39.2 Fair No 80 Oulastrea crispata 7 39.2 Fair No 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 5 42 Fair No 84 Oulastrea crispata 10 42.7 Fair No 85 Oulastrea crispata 10 56.1 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No	71	Guaiagorgia sp.	17	22.8	Fair	Yes
74 Guaiagorgia sp. 11 32.5 Fair No 75 Guaiagorgia sp. 16 36 Fair No 76 Guaiagorgia sp. 15 36.1 Fair No 77 Oulastrea crispata 16 39.1 Fair No 78 Oulastrea crispata 14 39.2 Fair No 79 Oulastrea crispata 17 39.2 Fair Yes 80 Oulastrea crispata 7 39.2 Fair No 81 Oulastrea crispata 6 39.6 Fair No 82 Oulastrea crispata 6 39.6 Fair No 83 Oulastrea crispata 6 39.6 Fair No 84 Oulastrea crispata 1 42.7 Fair No 85 Oulastrea crispata 1 55.6 Fair No 86 Guaiagorgia sp. 16 56.2 Fair No </td <td>72</td> <td>Guaiagorgia sp.</td> <td>21</td> <td>22.9</td> <td>Fair</td> <td>Yes</td>	72	Guaiagorgia sp.	21	22.9	Fair	Yes
75 Guaiagorgia sp. 16 36 Fair No 76 Guaiagorgia sp. 15 36.1 Fair No 77 Oulastrea crispata 16 39.1 Fair No 78 Oulastrea crispata 14 39.2 Fair No 79 Oulastrea crispata 17 39.2 Fair Yes 80 Oulastrea crispata 7 39.2 Fair No 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 6 39.6 Fair No 83 Oulastrea crispata 5 42 Fair No 84 Oulastrea crispata 10 42.7 Fair No 85 Oulastrea crispata 11 55.6 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No 87 Guaiagorgia sp. 16 56.2 Fair No </td <td>73</td> <td>Guaiagorgia sp.</td> <td>10</td> <td>32.4</td> <td>Fair</td> <td></td>	73	Guaiagorgia sp.	10	32.4	Fair	
76 Guaiagorgia sp. 15 36.1 Fair No 77 Oulastrea crispata 16 39.1 Fair No 78 Oulastrea crispata 17 39.2 Fair No 79 Oulastrea crispata 17 39.2 Fair Yes 80 Oulastrea crispata 1 39.2 Fair No 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 6 39.6 Fair No 83 Oulastrea crispata 1 42.7 Fair No 84 Oulastrea crispata 10 42.7 Fair No 85 Oulastrea crispata 10 42.7 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No 87 Guaiagorgia sp. 16 56.2 Fair No 89 Oulastrea crispata 18 56.3 Fair No						
777 Oulastrea crispata 16 39.1 Fair No 78 Oulastrea crispata 14 39.2 Fair No 79 Oulastrea crispata 17 39.2 Fair Yes 80 Oulastrea crispata 7 39.2 Fair No 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 6 39.6 Fair No 83 Oulastrea crispata 5 42 Fair No 84 Oulastrea crispata 10 42.7 Fair No 85 Oulastrea crispata 10 42.7 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No 86 Guaiagorgia sp. 16 56.2 Fair No 87 Guaiagorgia sp. 16 56.3 Fair No 80 Oulastrea crispata 18 56.3 Fair No	75					
78 Oulastrea crispata 14 39.2 Fair No 79 Oulastrea crispata 17 39.2 Fair Yes 80 Oulastrea crispata 1 39.2 Fair Yes 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 6 39.6 Fair No 83 Oulastrea crispata 6 39.6 Fair No 84 Oulastrea crispata 5 42 Fair No 85 Oulastrea crispata 10 42.7 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No 87 Guaiagorgia sp. 16 56.1 Fair No 88 Guaiagorgia sp. 16 56.2 Fair No 90 Oulastrea crispata 18 56.3 Fair No 91 Oulastrea crispata 11 56.4 Fair No						
79 Oulastrea crispata 17 39.2 Fair Yes 80 Oulastrea crispata 11 39.2 Fair Yes 81 Oulastrea crispata 8 39.6 Fair No 82 Oulastrea crispata 6 39.6 Fair No 83 Oulastrea crispata 5 42 Fair No 84 Oulastrea crispata 10 42.7 Fair No 85 Oulastrea crispata 10 42.7 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No 87 Guaiagorgia sp. 16 56.2 Fair No 88 Guaiagorgia sp. 16 56.3 Fair No 90 Oulastrea crispata 14 56.3 Fair No 90 Oulastrea crispata 11 56.4 Fair No 92 Oulastrea crispata 11 56.4 Fair No		•				
80 Oulastrea crispata 11 39.2 Fair Yes 81 Oulastrea crispata 7 39.2 Fair No 82 Oulastrea crispata 8 39.6 Fair No 83 Oulastrea crispata 6 39.6 Fair No 84 Oulastrea crispata 10 42.7 Fair No 85 Oulastrea crispata 10 42.7 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No 87 Guaiagorgia sp. 16 56.1 Fair No 88 Guaiagorgia sp. 16 56.2 Fair No 89 Oulastrea crispata 14 56.3 Fair No 90 Oulastrea crispata 8 56.3 Fair No 91 Oulastrea crispata 1 56.4 Fair No 92 Oulastrea crispata 1 57.9 Fair No		,				
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82 Oulastrea crispata 8 39.6 Fair No 83 Oulastrea crispata 6 39.6 Fair No 84 Oulastrea crispata 5 42 Fair No 85 Oulastrea crispata 10 42.7 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No 87 Guaiagorgia sp. 16 56.1 Fair No 88 Guaiagorgia sp. 16 56.2 Fair No 89 Oulastrea crispata 14 56.3 Fair No 90 Oulastrea crispata 18 56.3 Fair No 90 Oulastrea crispata 11 56.4 Fair No 91 Oulastrea crispata 11 56.4 Fair No 92 Oulastrea crispata 11 57.9 Fair No 94 Guaiagorgia sp. 27 57.9 Fair No		•				
83 Oulastrea crispata 6 39.6 Fair No 84 Oulastrea crispata 5 42 Fair No 85 Oulastrea crispata 10 42.7 Fair No 86 Guaiagorgia sp. 16 56.1 Fair No 87 Guaiagorgia sp. 16 56.1 Fair No 88 Guaiagorgia sp. 16 56.2 Fair No 89 Oulastrea crispata 14 56.3 Fair No 90 Oulastrea crispata 18 56.3 Fair No 90 Oulastrea crispata 8 56.3 Fair No 91 Oulastrea crispata 11 56.4 Fair No 92 Oulastrea crispata 11 56.4 Fair No 93 Guaiagorgia sp. 27 57.9 Fair No 94 Guaiagorgia sp. 12 57.9 Fair No <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td>		,				
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120 Guaiagorgia sp. 15 64.2 Fair Yes						

C- 1		Size in	Dist	TT - 101	T 1
Coral Number	Coral Species	Height/ Diameter	Distance on Transect (m)	Health Condition	Translocation Feasibility
		(cm)			
121	Oulastrea crispata	12	64.6	Fair	No
122	Oulastrea crispata	10	64.7	Fair	No
123	Oulastrea crispata	15	64.7	Fair	No
124	Oulastrea crispata	6	64.7	Fair	No
125	Oulastrea crispata	8	64.9	Fair	No
126	Oulastrea crispata	6	64.9	Fair	No
127	Guaiagorgia sp.	21	67.2	Fair	No
128	Guaiagorgia sp.	18	67.2	Fair	No
129	Guaiagorgia sp.	24	67.8	Fair	No No
130 131	Guaiagorgia sp.	18 10	67.8 67.9	Fair Fair	No No
131	Oulastrea crispata Oulastrea crispata	10 17	67.9 67.9	Fair Fair	No
133	Oulastrea crispata	16	70.2	Fair	No
134	Oulastrea crispata	12	70.2	Fair	No
135	Oulastrea crispata	7	70.3	Fair	No
136	Guaiagorgia sp.	16	70.4 72.1	Fair	No
137	Guaiagorgia sp.	22	72.4	Fair	No
138	Guaiagorgia sp.	16	72.4	Fair	No
139	Guaiagorgia sp.	17	72.4	Fair	No
140	Oulastrea crispata	12	72.6	Fair	No
141	Oulastrea crispata	13	72.6	Fair	No
142	Oulastrea crispata	10	72.7	Fair	No
143	Oulastrea crispata	7	72.9	Fair	No
144	Oulastrea crispata	10	72.9	Fair	No
145	Oulastrea crispata	13	72.9	Fair	No
146	Guaiagorgia sp.	16	73	Fair	No
147	Guaiagorgia sp.	20	73.6	Fair	No
148	Guaiagorgia sp.	22	74.5	Fair	No
149	Oulastrea crispata	18	78.1	Fair	No
150	Oulastrea crispata	20	78.1	Fair	No
151	Oulastrea crispata	6	78.3	Fair	No
152	Oulastrea crispata	8	78.4	Fair	No
153	Oulastrea crispata	11	78.4	Fair	No
154	Guaiagorgia sp.	17	78.9	Fair	No
155	Guaiagorgia sp.	21	79	Fair	No
156	Guaiagorgia sp.	22	79.5	Fair	No
157	Guaiagorgia sp.	16	84.5	Fair	No
158	Guaiagorgia sp.	15	84.5	Fair	No
159	Guaiagorgia sp.	17	84.5	Fair	No
160	Oulastrea crispata	15	84.5	Fair	No
161	Oulastrea crispata	10	84.5	Fair	No
162	Oulastrea crispata	11	85.1	Fair	No No
163	Oulastrea crispata	14	85.1 85.2	Fair	No No
164 165	Guaiagorgia sp.	23	85.3 85.3	Fair Fair	No No
165 166	Guaiagorgia sp.	27 21	85.3 85.3	Fair Fair	No No
	Guaiagorgia sp.		85.3 85.6		No No
167 168	Guaiagorgia sp. Guaiagorgia sp.	10 11	85.6 85.6	Fair Fair	No No
169	Guaiagorgia sp.	14	85.6	Fair	No
170	Guaiagorgia sp.	12	85.7	Fair Fair	No
170	Oulastrea crispata	19	85.9	Fair	Yes
171	Oulastrea crispata	8	85.9	Fair	Yes
173	Oulastrea crispata	11	85.9	Fair	Yes
174	Oulastrea crispata	9	86.1	Fair	No
175	Oulastrea crispata	5	86.1	Fair	No
176	Guaiagorgia sp.	22	86.3	Fair	No
	3 0 1				

Coral Number	Coral Species	Size in Height/ Diameter (cm)	Distance on Transect (m)	Health Condition	Translocation Feasibility
177	Guaiagorgia sp.	13	86.3	Fair	No
178	Guaiagorgia sp.	15	86.3	Fair	No
179	Guaiagorgia sp.	12	86.4	Fair	No
180	Guaiagorgia sp.	10	86.4	Fair	No
181	Guaiagorgia sp.	15	86.5	Fair	No
182	Oulastrea crispata	12	87.1	Fair	No
183	Oulastrea crispata	10	87.1	Fair	No
184	Oulastrea crispata	15	87.1	Fair	No
185	Oulastrea crispata	11	87.2	Fair	No
186	Oulastrea crispata	16	87.3	Fair	No
187	Guaiagorgia sp.	21	88.2	Fair	No
188	Guaiagorgia sp.	21	88.3	Fair	No
189	Guaiagorgia sp.	20	88.3	Fair	No
190	Guaiagorgia sp.	10	92.1	Fair	No
191	Guaiagorgia sp.	14	92.4	Fair	No
192	Guaiagorgia sp.	18	94	Fair	No
193	Guaiagorgia sp.	15	94.2	Fair	Yes
194	Guaiagorgia sp.	13	94.2	Fair	Yes
195	Guaiagorgia sp.	13	94.2	Fair	No

Table 8 Weather Condition during the Spot-Check Dives at Tai Mo To

Date	Weather Condition	Average Underwater Visibility
December 2012	Northeast force 4 to 5	0.5m
	Sunny	

Table 9 GPS Location, Route Distance, Minimum Depth, Maximum Depth, Bottom Substrate and Underwater Visibility of Spot-Check Dive Sites at Tai Mo To

Site	Location (GPS) (Starting Point)	Route Distance (m)	Min. Depth (m)	Max. Depth (m)	Bottom Substrate	Visibility (m)
TMT01	821548.983N	200	1.5	5.5	Bedrock/	0.5
	814460.231E				Boulders	
TMT02	821383.835N	190	1.5	2	Bedrock/	0.5
	814414.147E				Boulders	
TMT03	821543.5115N	170	2.5	3.5	Sand/ Mud	0.5
	814444.0857E					
TMT04	821367.5518N	220	3	6	Sand/ Mud	0.5
	814423.0721E					
TMT05	821539.7767N	230	5	7.5	Sand/ Mud	0.5
	814413.4266E					
TMT06	821329.291N	200	5	7	Sand/ Mud	0.5
	814388.311E					

Table 10 Species, Coverage and Size of Corals found at Spot-Check Dive Sites at Tai Mo To

Site	Coral Species	Coverage	Size in Height/ Diameter (cm)
TMT01	Balanophyllia sp.	<1%	<0.1
	Guaiagorgia sp.	<1%	10-25
TMT02	Balanophyllia sp.	<1%	<0.1
	Guaiagorgia sp.	<1%	10-25

Table 11 Weather Condition during the REA Survey at Tai Mo To

Date	Weather Condition	Average Underwater Visibility
January 2013	East force 4 to 5	0.5m
	Sunny	

Table 12 GPS of Transect Starting Point and Ending Point, Maximum Depth, Bottom Substrate and Underwater Visibility of REA Transects at Tai Mo To

Transect	Location (GPS) (Starting Point)	Location (GPS) (End Point)	Max. Depth (m)	Bottom Substrate	Visibility (m)
REA 1	821337.727N 814414.147E	821212.501N 814437.723E	3.5	Bedrocks/ Boulders	0.5

Table 13 Size and Health Condition of Coral Colonies found at Transect REA 1 at Tai Mo To

Coral Species	Size in	Distance on	Health	Translocation
	Height/	Transect (m)	Condition	Feasibility
	Diameter (cm)			
Guaiagorgia sp.	10	4.2	Fair	No
Guaiagorgia sp.	11	5	Fair	No
Guaiagorgia sp.	15	7	Fair	No
Guaiagorgia sp.	12	7.5	Fair	No
Guaiagorgia sp.	20	12	Fair	No
Guaiagorgia sp.	20	12.2	Fair	No
Guaiagorgia sp.	15	16	Fair	No
Guaiagorgia sp.	25	16.3	Fair	No
Guaiagorgia sp.	17	24	Fair	No
Guaiagorgia sp.	18	28	Fair	No
Guaiagorgia sp.	14	28.5	Fair	No
Guaiagorgia sp.	16	32.4	Fair	No
Guaiagorgia sp.	10	32.8	Fair	Yes
Guaiagorgia sp.	21	33.9	Fair	No
Guaiagorgia sp.	14.	42	Fair	No
Guaiagorgia sp.	22	44.5	Fair	No
Guaiagorgia sp.	25	44.5	Fair	No
Guaiagorgia sp.	15	44.6	Fair	Yes
Guaiagorgia sp.	16	44.6	Fair	Yes
Guaiagorgia sp.	19	57	Fair	No
Guaiagorgia sp.	10	57.4	Fair	No
Guaiagorgia sp.	21	57.6	Fair	No
Guaiagorgia sp.	20	62	Fair	No
	Guaiagorgia sp.	Diameter (cm)	Height/ Diameter (cm) Transect (m) Guaiagorgia sp. 10 4.2 Guaiagorgia sp. 11 5 Guaiagorgia sp. 15 7 Guaiagorgia sp. 12 7.5 Guaiagorgia sp. 20 12.2 Guaiagorgia sp. 15 16 Guaiagorgia sp. 15 16 Guaiagorgia sp. 25 16.3 Guaiagorgia sp. 17 24 Guaiagorgia sp. 18 28 Guaiagorgia sp. 14 28.5 Guaiagorgia sp. 16 32.4 Guaiagorgia sp. 10 32.8 Guaiagorgia sp. 21 33.9 Guaiagorgia sp. 22 44.5 Guaiagorgia sp. 25 44.5 Guaiagorgia sp. 15 44.6 Guaiagorgia sp. 16 44.6 Guaiagorgia sp. 10 57.4 Guaiagorgia sp. 10 57.4 Guaiagorgia sp. 21	Height/ Diameter (cm) Transect (m) Condition Guaiagorgia sp. 10 4.2 Fair Guaiagorgia sp. 11 5 Fair Guaiagorgia sp. 15 7 Fair Guaiagorgia sp. 12 7.5 Fair Guaiagorgia sp. 20 12 Fair Guaiagorgia sp. 15 16 Fair Guaiagorgia sp. 25 16.3 Fair Guaiagorgia sp. 17 24 Fair Guaiagorgia sp. 18 28 Fair Guaiagorgia sp. 14 28.5 Fair Guaiagorgia sp. 16 32.4 Fair Guaiagorgia sp. 10 32.8 Fair Guaiagorgia sp. 21 33.9 Fair Guaiagorgia sp. 24 Fair Guaiagorgia sp. 24 Fair Guaiagorgia sp. 25 44.5 Fair Guaiagorgia sp. 26 44.5 Fair <

Coral	Coral Species	Size in	Distance on	Health	Translocation
Number	1	Height/	Transect (m)	Condition	Feasibility
		Diameter (cm)	, ,		•
24	Guaiagorgia sp.	15	62.1	Fair	Yes
25	Guaiagorgia sp.	14	62.2	Fair	No
26	Guaiagorgia sp.	10	62.2	Fair	No
27	Guaiagorgia sp.	10	65	Fair	Yes
28	Guaiagorgia sp.	15	65.5	Fair	No
29	Guaiagorgia sp.	15	65.5	Fair	No
30	Guaiagorgia sp.	14	65.7	Fair	No
31	Guaiagorgia sp.	16	65.8	Fair	Yes
32	Guaiagorgia sp.	14	65.8	Fair	No
33	Guaiagorgia sp.	21	67	Fair	No
34	Guaiagorgia sp.	19	67	Fair	Yes
35	Guaiagorgia sp.	20	67.1	Fair	No
36	Guaiagorgia sp.	14	67.2	Fair	No
37	Guaiagorgia sp.	10	67.2	Fair	No
38	Guaiagorgia sp.	15	67.7	Fair	No
39	Guaiagorgia sp.	16	82	Fair	No
40	Guaiagorgia sp.	17	82	Fair	No
41	Guaiagorgia sp.	10	82.1	Fair	No
42	Guaiagorgia sp.	10	82.4	Fair	No
43	Guaiagorgia sp.	12	82.6	Fair	No
44	Guaiagorgia sp.	10	82.5	Fair	No
45	Guaiagorgia sp.	15	83.4	Fair	Yes
46	Guaiagorgia sp.	10	83.5	Fair	No
47	Guaiagorgia sp.	14	83.5	Fair	No
48	Guaiagorgia sp.	10	84	Fair	No
49	Guaiagorgia sp.	19	86.2	Fair	No
50	Guaiagorgia sp.	14	88.1	Fair	No
51	Guaiagorgia sp.	15	88.7	Fair	No
52	Guaiagorgia sp.	21	92	Fair	No
53	Guaiagorgia sp.	22	92.4	Fair	No
54	Guaiagorgia sp.	13	93	Fair	Yes
55	Guaiagorgia sp.		94.5	Fair	No
56	Guaiagorgia sp.	12	94.6	Fair	No
57	Guaiagorgia sp.	10	95	Fair	No

Appendix B

Representative Photographs
Taken during the Dive
Surveys



Artificial Vertical Seawall



Natural Bedrocks and Boulders



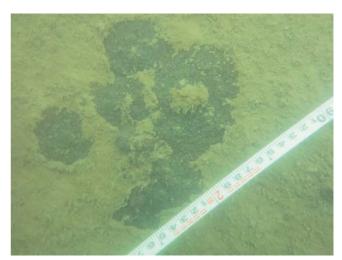
Guaiagorgia sp.



Guaiagorgia sp.



Oulastrea crispata



Oulastrea crispata

Figure B1 Representative Photographs taken during the Dive Survey on 6th February 2013

Environmental Resources Management



FILE: P078118a1 DATE: 11/09/2013



Oulastrea crispata



Balanophyllia sp.



Balanophyllia sp.



Cerianthus filiformis



Perna viridis

Figure B2 Representative Photographs taken during the Dive Survey on 6th February 2013

Environmental Resources Management

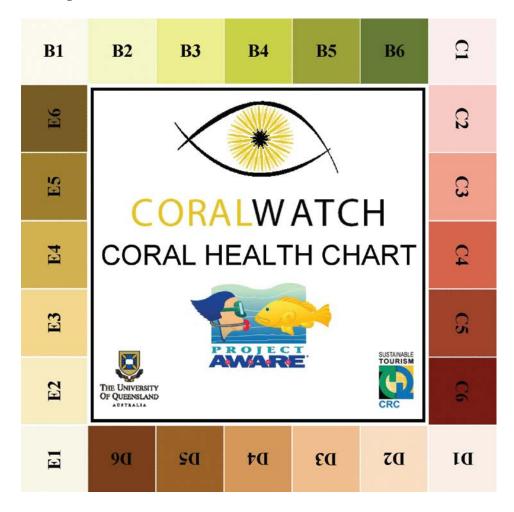


FILE: P078118a2 DATE: 11/09/2013

Appendix C

Coral Health Monitoring Chart

The Coral Health Monitoring Chart has four sample colours and six degrees of darkness (Code 1 to 6) for each sample colour indicating different stages of coral health condition. Code 1 is the lightest (representing bleaching) and Code 6 has the dark colour (representing the healthiest). During the REA survey, the lightest and darkest areas of each coral will be selected, and the colour of areas will be matched to the categories on the chart.



Appendix D

Sample Survey Record Form

Appendix D Sample Survey Record Form

Coral #	Species	Size (cm) - Max. Height/ Diameter	Condition	Mortality (%)	Bleaching (%)	Sediment (%)