

Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area - Investigation

Third Monthly Environmental Monitoring & Audit (EM&A) Report

3 December 2021

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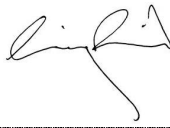

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*Third Monthly Environmental Monitoring & Audit
(EM&A) Report*

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Client: Highways Department		Project No: 0611663			
Summary: This document presents the Third Monthly EM&A Report for Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area - Investigation		Date: 3 December 2021			
		Approved by:  Mr Craig Reid Partner			
		Certified by:  Dr Jasmine Ng ET Leader			
	3 rd Monthly EM&A Report	VAR	JN	CAR	03/12/21
Revision	Description	By	Checked	Approved	Date



This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

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13 December 2021

By Fax (3691 2899) and By Post

AECOM Asia Co. Ltd.
Supervising Officer Representative's Office
No.8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Mr. K P Wong

Dear Mr. Wong,

**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**

**Agreement No. HMWSD 1/2021 (EP)
Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel
Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau
Survey Area – Investigation
3rd Monthly EM&A Report for November 2021 (EP-354/2009/D)**

Reference is made to the Monthly EM&A Report for November 2021 (ET's ref.: "0611663_3rd Monthly EM&A_20211203.doc") certified by the ET Leader and provided to us via e-mail on 3 December 2021.

Please be informed that we have no adverse comments on the captioned Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

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

Yours sincerely,



Brian Tam
Independent Environmental Checker
Tuen Mun – Chek Lap Kok Link

c.c.

HyD	Ms. Sally Choi	(By Fax: 3188 6614)
HyD	Ms. Maggie Lai	(By Fax: 3188 6614)
ERM	Dr. Jasmine Ng	(By Fax: 2723 5660)

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EXECUTIVE SUMMARY

Under Agreement No. HMWSD 1/2021 (EP), ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) by the Highways Department (HyD) to undertake the implementation of post-construction monitoring for the Chinese White Dolphin (CWD) in accordance with Environmental Permit No. EP-354/2009/D for the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project). AECOM Asia Company Limited was appointed by HyD as the Supervising Officer while Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

The post-construction monitoring for the CWD commenced on June 2020 and will be completed in May 2022.

This is the Third Monthly EM&A report presenting the monitoring works carried out during the period from 1 to 30 November 2021 for the Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation (the “Contract”) in accordance with the Updated EM&A Manual of the TM-CLK Link Contract.

In order to fulfil the EP’s and EM&A Manual’s requirements for TM-CLKL Project, Agreement No. HMWSD 1/2021 (EP) took over the responsibility for implementation of operational phase dolphin monitoring from Contract No. HY/2012/08 from 1 September 2021 to 31 May 2022.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

Operational Phase Dolphin Monitoring 2 sessions

Summary of Breaches of Action/Limit Levels

One (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between September and November 2021.

Environmental Complaints, Non-compliance & Summons

No non-compliance with EIA recommendations, EP conditions and other requirements associated with the construction of this Contract was recorded in this reporting period.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Reporting Change

There was no reporting change in the reporting period.

1.1

BACKGROUND

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 (the Project) 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-146/2009), 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 (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

Under *Agreement No. HMWSD 1/2021 (EP)*, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) by the Highways Department (HyD) to undertake the implementation of post-construction monitoring for the Chinese White Dolphin (CWD) in accordance with *Environmental Permit No. EP-354/2009/D* for the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project). AECOM Asia Company Limited was appointed by HyD as the Supervising Officer while Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

The post-construction monitoring for the CWD commenced on June 2020 and will be completed in May 2022.

In order to fulfil the EP's and EM&A Manual's requirements for TM-CLKL Project, *Agreement No. HMWSD 1/2021 (EP)* took over the responsibility for implementation of operational phase dolphin monitoring from Contract No. HY/2012/08 from 1 September 2021 to 31 May 2022.

1.2 SCOPE OF REPORT

This is the Third Monthly EM&A Report under the Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation. This report presents a summary of the environmental monitoring and audit works in November 2021.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in Appendix A. The key personnel contact names and contact details are summarized in Table 1.1 below.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Highways Department	Engr 24/SD	Ken T.M. Cheng	2762 4062	3188 6614
SOR (AECOM Asia Company Limited)	Senior Resident Engineer	K P Wong	2293 6403	2293 6300
ENPO / IEC (Ramboll Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
	IEC	Brian Tam	9700 6767	3465 2899
ET (ERM-HK)	ET Leader	Jasmine Ng	2271 3311	2723 5660

The EM&A programme required environmental monitoring for marine ecology. The EM&A requirements and related findings for the component are summarized in the following sections

2.1 DOLPHIN MONITORING

2.1.1 Monitoring Requirements

Operational Phase dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins. According to the EM&A Manual, Operational Phase Monitoring on dolphin monitoring shall be undertaken based upon the frequency of forty-eight, one-day survey events at a frequency of 2 per month over a period of 24 months following cessation of the construction.

In order to fulfil the EM&A requirements and make good use of available resources, *Agreement No. HMWSD 1/2021 (EP)* has taken over the responsibility for implementation of dolphin monitoring from *HZMB HKLR Contract No. HY/2011/03* since October 2019 and *Contract No. HY/2012/08* since September 2021.

2.1.2 Monitoring Equipment

Table 2.1 summarises the equipment used for the operational phase dolphin monitoring.

Table 2.1 *Dolphin Monitoring Equipment*

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus Nikon D90 20-300m zoom lens
Laser Binocular	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine motor vessel with viewing platform 4.5m above water level

2.1.3 Monitoring Parameter, Frequencies & Duration

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period and operational phase. The monitoring data should be compatible with, and should be made available for, long-term

studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring and operational phase dolphin monitoring.

2.1.4 *Monitoring Location*

The operational phase dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.1*. The co-ordinates of all transect lines are shown in *Table 2.2* below.

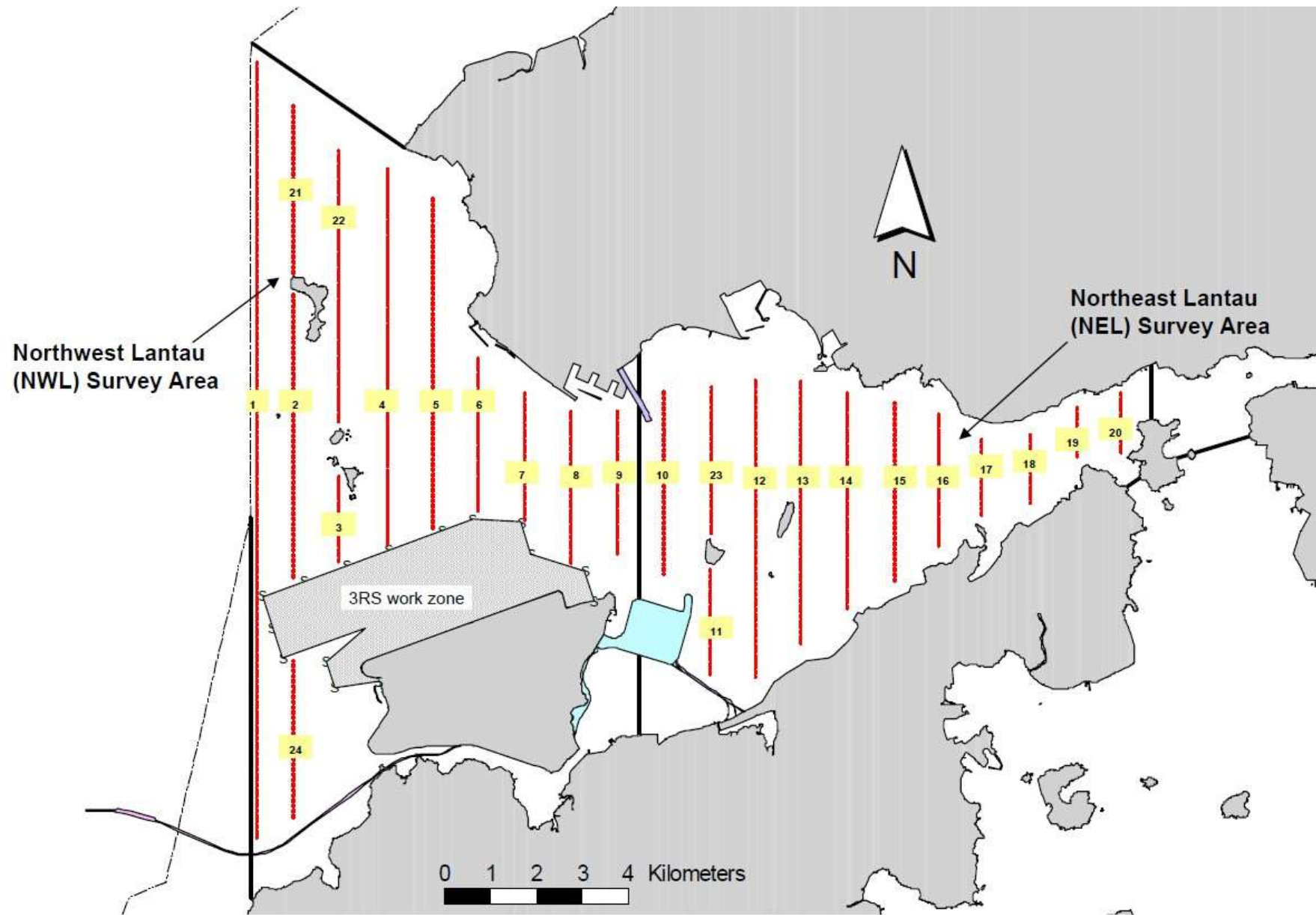


Figure 2.1

Layout of Transect Lines of Dolphin Monitoring in Northwest and Northeast Lantau Areas

Table 2.2 Operational Phase Dolphin Monitoring Line Transect Co-ordinates

Line No.		Easting	Northing	Line No.		Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805476	820800*	14	Start Point	817537	820220
2	End Point	805476	826654	14	End Point	817537	824613
3	Start Point	806464	821150*	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	821500*	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	821850*	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	822150*	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	822000*	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	821176	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818853	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807	24*	Start Point	805476*	815900*
12	End Point	815542	824882	24*	End Point	805476*	819100*

Remarks: The coordinates of several starting and ending points have been revised due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

2.1.5 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 1, 9, 16 and 17 November 2021. The dolphin monitoring schedule for the reporting month is shown in *Appendix B*.

2.1.6 *Results & Observations*

A total of 284.22 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in November 2021. Among the two areas, 112.70 km and 171.52 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 194.22 km and 90.00 km respectively. The survey efforts are summarized in *Appendix C*.

Two groups of four Chinese White Dolphin were sighted in the two sets of surveys in November 2021. The dolphin sightings were made in NWL, while none was sighted in NEL. The dolphin sightings were made during on-effort search and were made on primary lines. The dolphins were not associated with any operating fishing vessel.

No dolphin sighting was made in the proximity of the TM-CLKL alignment. The distribution of dolphin sightings during the reporting month is shown in Figure 2.2.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in November 2021 with the results present in *Tables 2.3 and 2.4*.

Table 2.3 *Individual Survey Event Encounter Rates*

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: November 1st / 9th	0.0	0.0
	Set 2: November 16th / 17th	0.0	0.0
NWL	Set 1: November 1st / 9th	3.3	6.5
	Set 2: November 16th / 17th	0.0	0.0

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in November 2021 in Northeast (NEL) and Northwest Lantau (NWL)

Table 2.4 Monthly Average Encounter Rates

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	1.6	1.2	3.2	2.3

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in November 2021 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

One limit level exceedance was observed for the quarterly dolphin monitoring data between September to November 2021.

2.2 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.5* below.

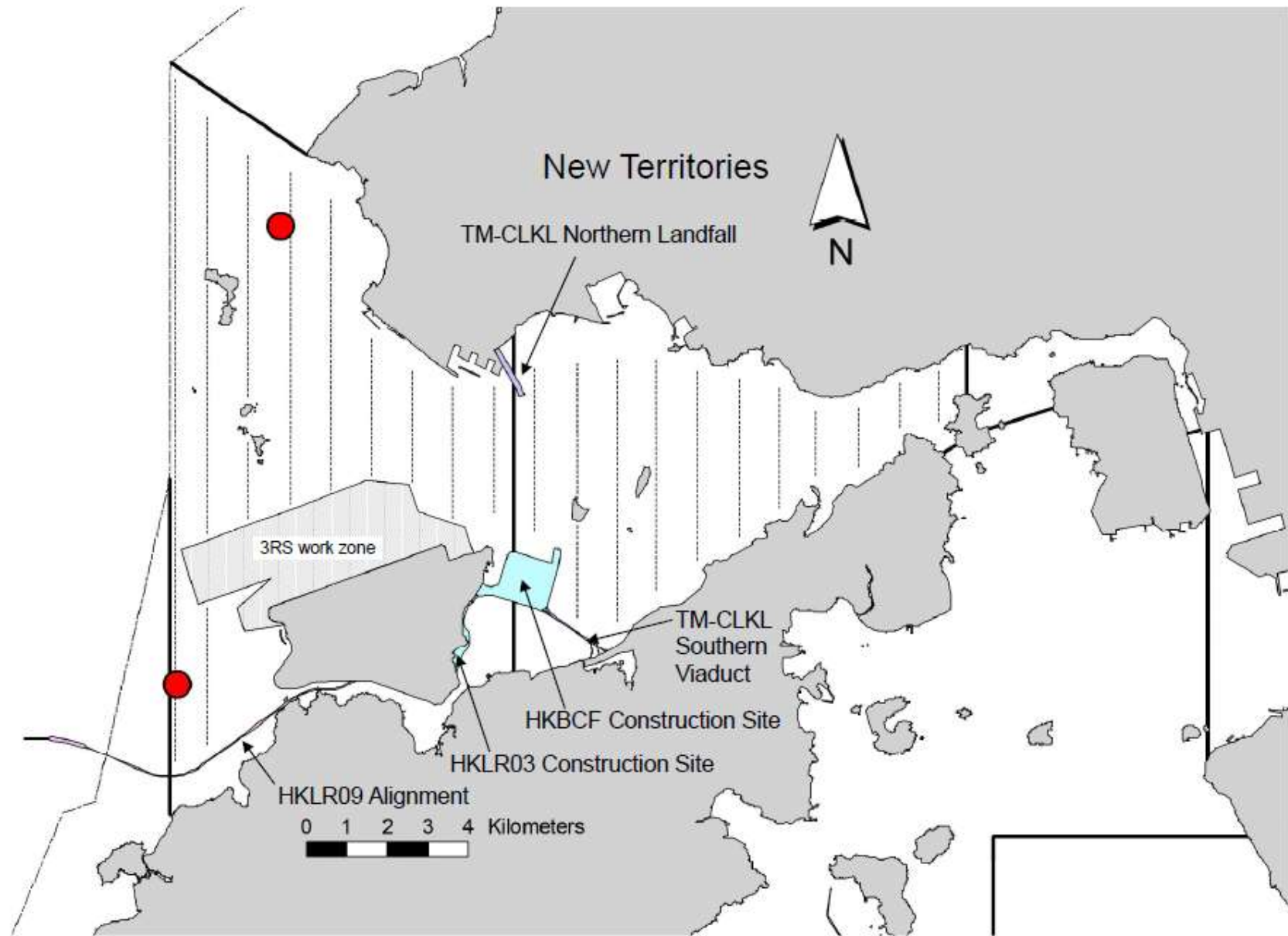


Figure 2.2

Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin
 (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast
 and Northwest Lantau Survey Area – Investigation
 The distribution of dolphin sightings during the reporting period

Environmental
 Resources
 Management



Table 2.5 *Summary of Environmental Licensing and Permit Status*

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/DF	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to supersede EP-354/2009/C

Notes:

HyD = Highways Department

VEP = Variation of Environmental Permit

2.3 ***SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT***

One limit level exceedance was observed for the quarterly dolphin monitoring data between September to November 2021.

Cumulative statistics are provided in *Appendix D*.

2.4 ***SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS***

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Statistics on complaints, notifications of summons and successful prosecutions are summarized in *Appendix D*.

3 *FUTURE KEY ISSUES*

3.1 *MONITORING SCHEDULE FOR THE COMING MONTH*

The tentative schedule for environmental monitoring in December 2021 is provided in *Appendix B*.

4.1 CONCLUSIONS

This Third EM&A Report presents the findings of the monitoring works undertaken during the period from 1 to 30 November 2021, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Operational phase dolphin monitoring was carried out in this reporting month.

One limit level exceedance was observed for the quarterly dolphin monitoring data between September to November 2021.

Two groups of four Chinese White Dolphin were sighted in the two sets of surveys in November 2021. The dolphin sightings were made in NWL, while none was sighted in NEL. The dolphin sightings were made during on-effort search and were made on primary lines. The dolphins were not associated with any operating fishing vessel.

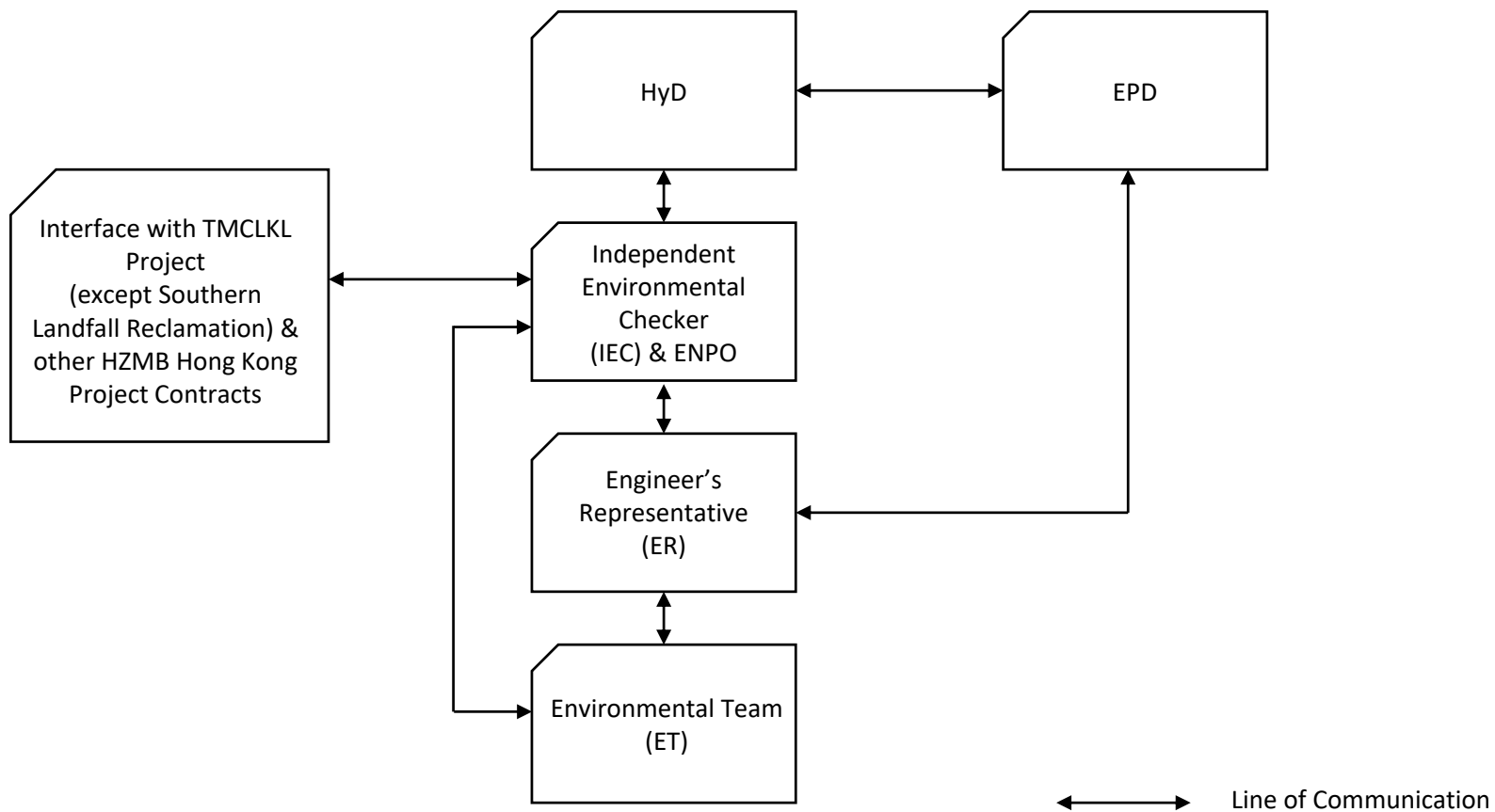
No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

In order to fulfil the EP's and EM&A Manual's requirements for TM-CLKL Project, Agreement No. HMWSD 1/2021 (EP) took over the responsibility for implementation of operational phase dolphin monitoring from Contract No. HY/2012/08 from 1 September 2021 to 31 May 2022.

Appendix A

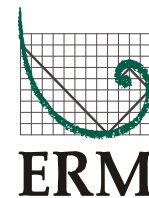
Project Organization for Environmental Works



Appendix A1

Agreement No. HMWSD 1/2021 (EP)
 Post-Construction Monitoring of Chinese White Dolphin
 (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast
 and Northwest Lantau Survey Area – Investigation
 Project Organization

Environmental
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Appendix B

EM&A Monitoring Schedules

**Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation
Operational Phase Dolphin Monitoring Survey Monitoring Schedule - November 2021**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Nov	02-Nov	03-Nov	04-Nov	05-Nov	06-Nov
	Operational Phase Dolphin Monitoring					
07-Nov	08-Nov	09-Nov	10-Nov	11-Nov	12-Nov	13-Nov
		Operational Phase Dolphin Monitoring				
14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov
		Operational Phase Dolphin Monitoring	Operational Phase Dolphin Monitoring			
21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov
28-Nov	29-Nov	30-Nov				

**Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation
Tentative Operational Phase Dolphin Monitoring Survey Monitoring Schedule - December 2021**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Dec	02-Dec	03-Dec	04-Dec
				Operational Phase Dolphin Monitoring	Operational Phase Dolphin Monitoring	
05-Dec	06-Dec	07-Dec	08-Dec	09-Dec	10-Dec	11-Dec
12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec
	Operational Phase Dolphin Monitoring	Operational Phase Dolphin Monitoring				
19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec
26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised in view of adverse(safety,weather etc) conditions.

Appendix C

Operational Phase Dolphin Monitoring Survey

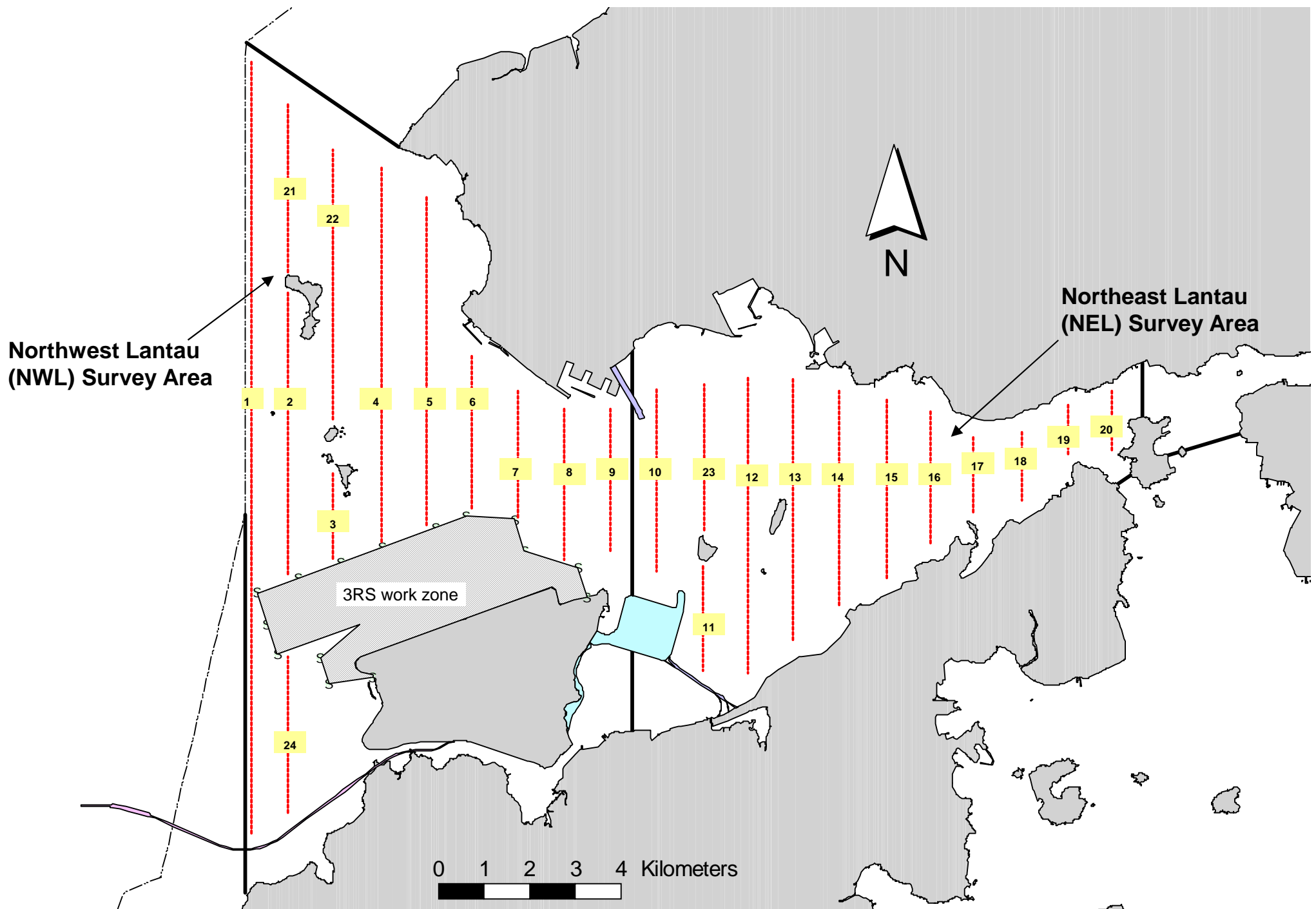


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

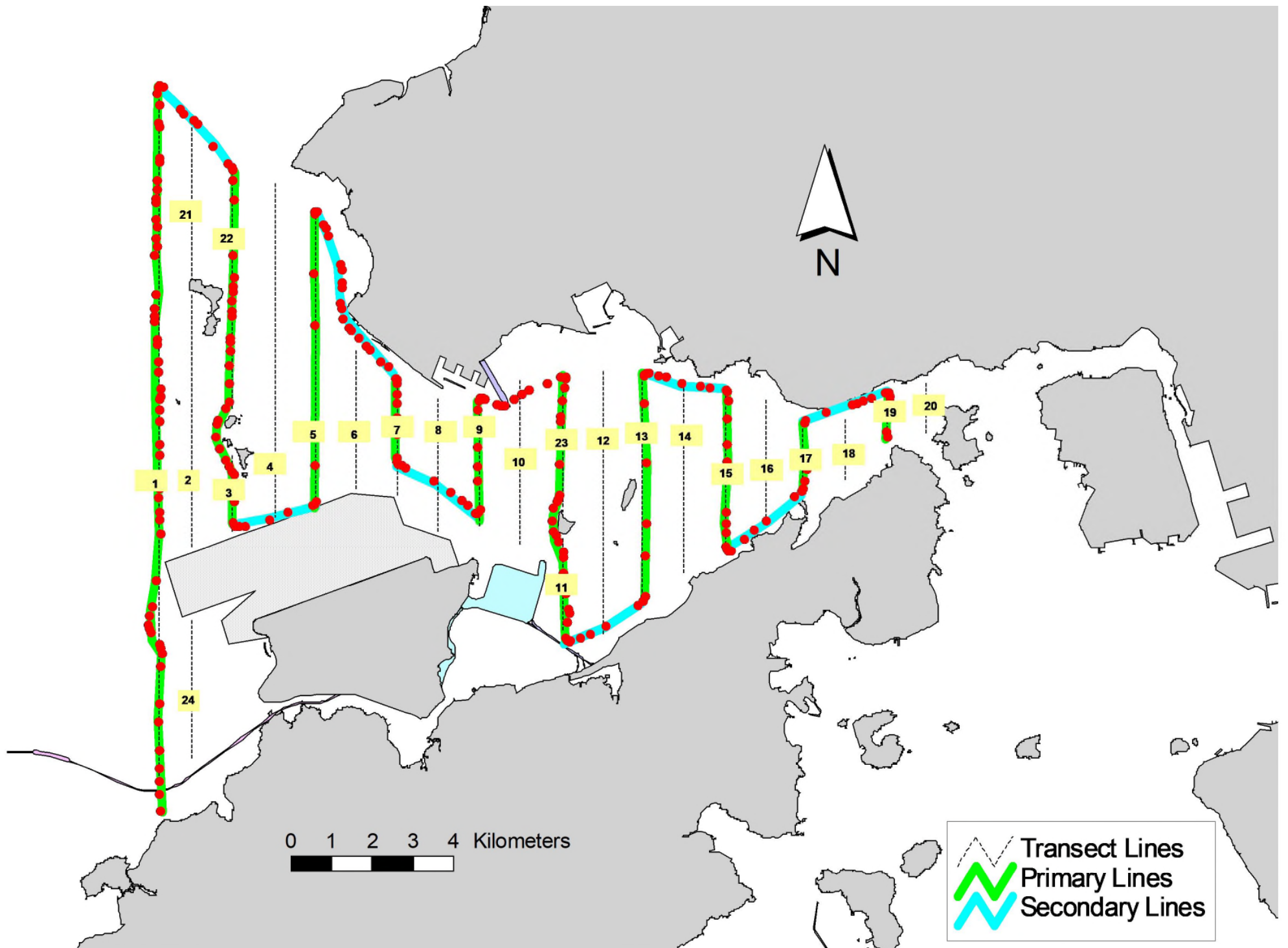


Figure 2. Survey Route on November 1st, 2021

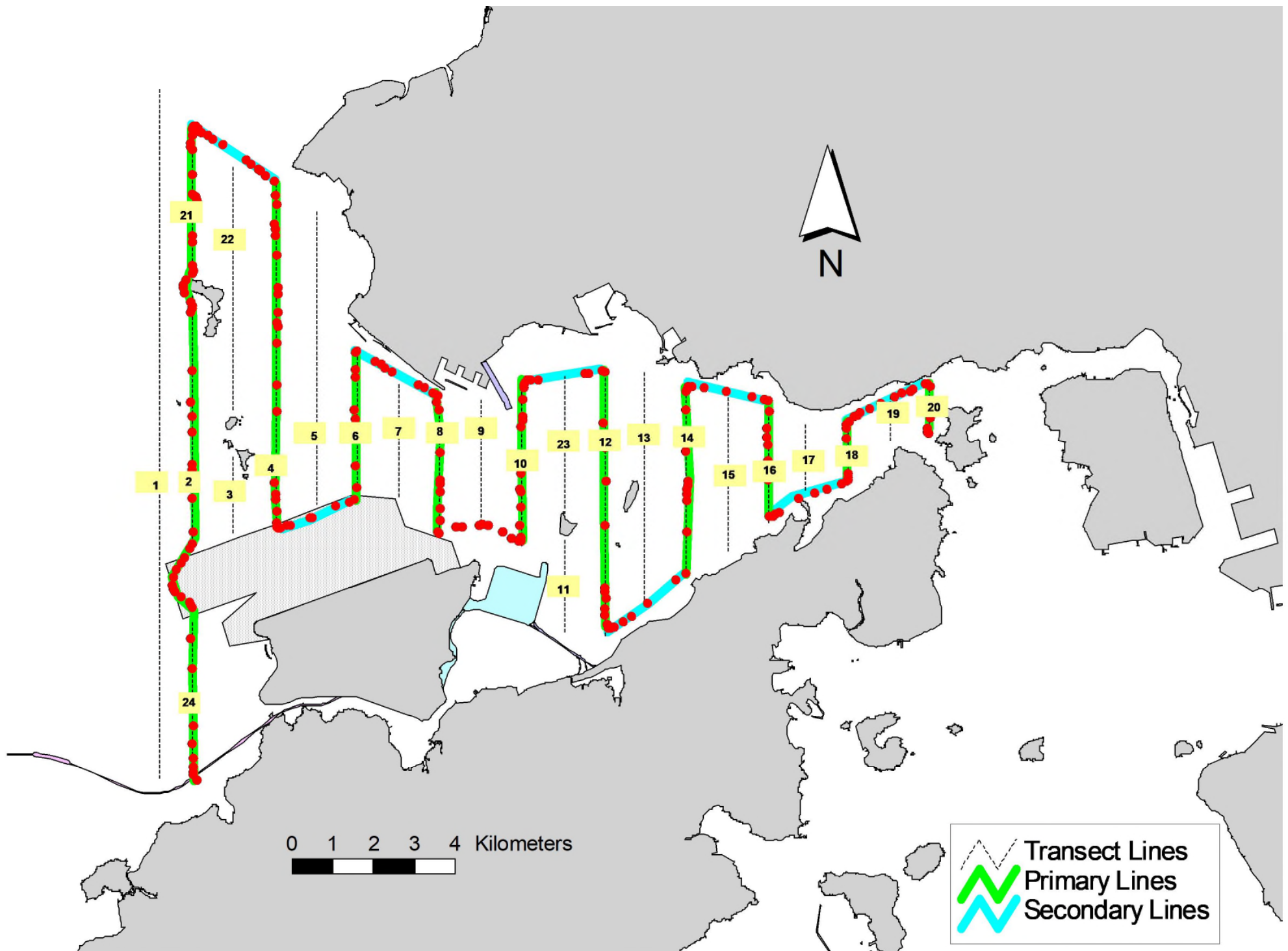


Figure 3. Survey Route on November 9th, 2021

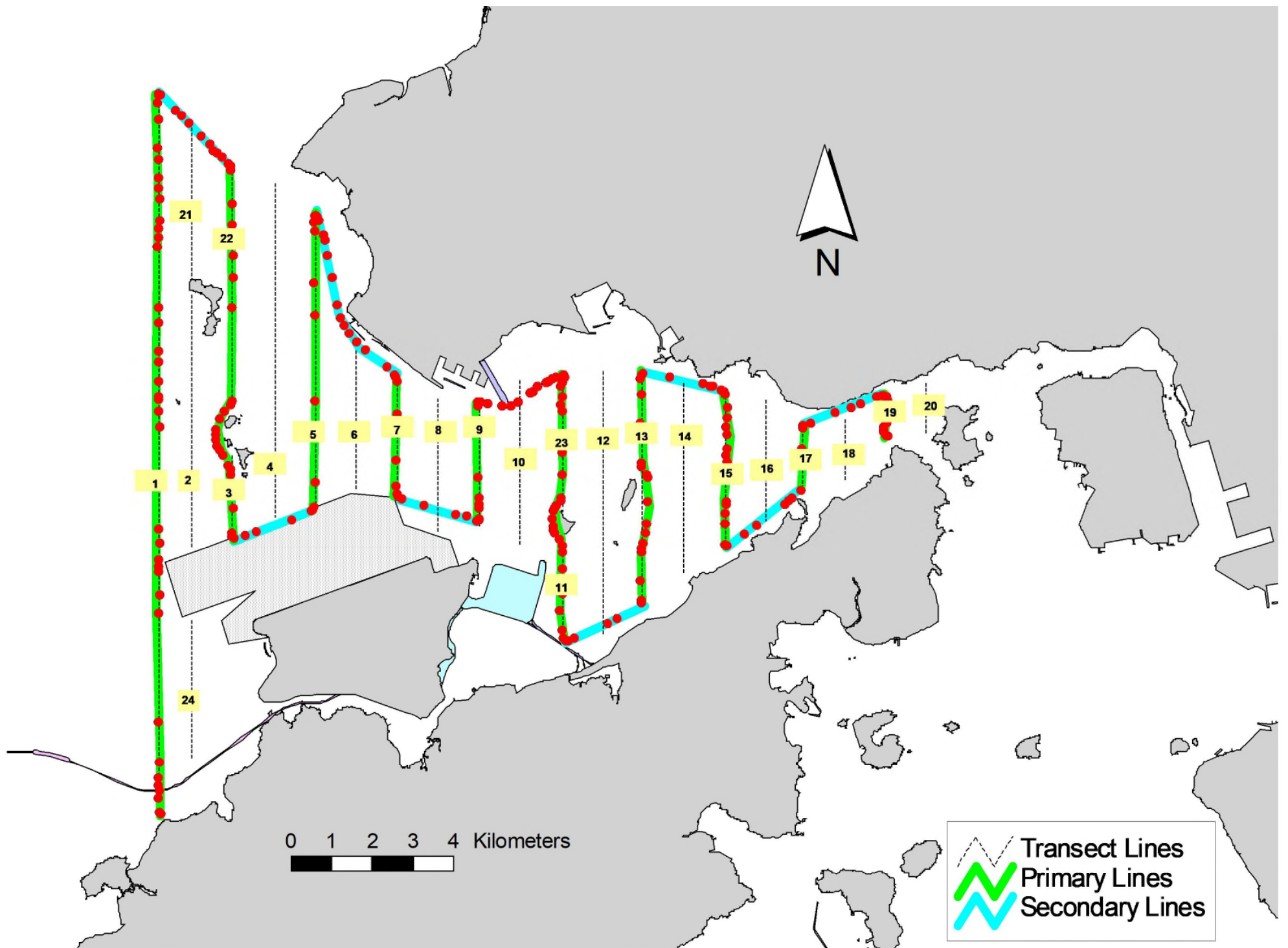


Figure 4. Survey Route on November 16th, 2021

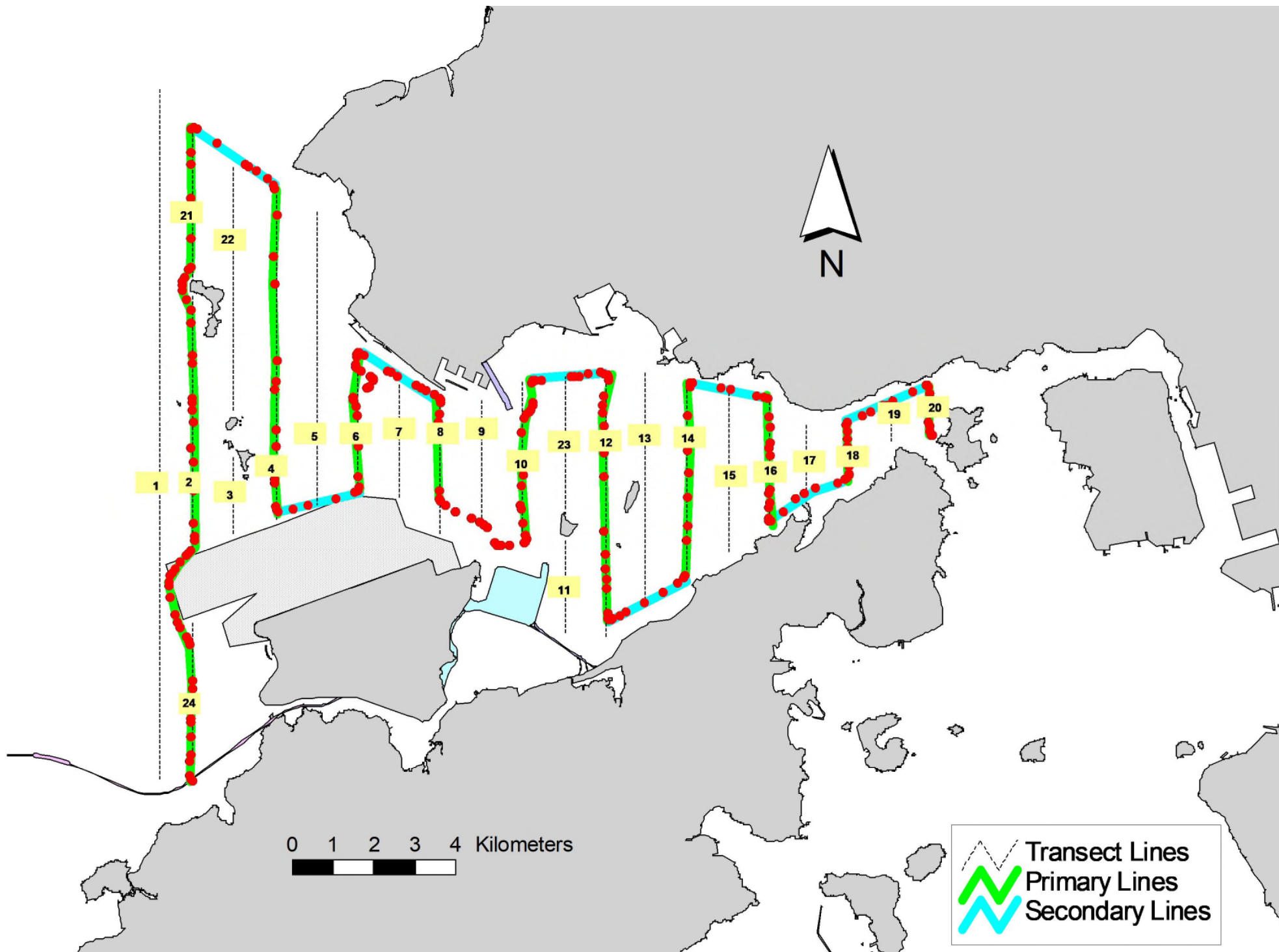


Figure 5. Survey Route on November 17th, 2021

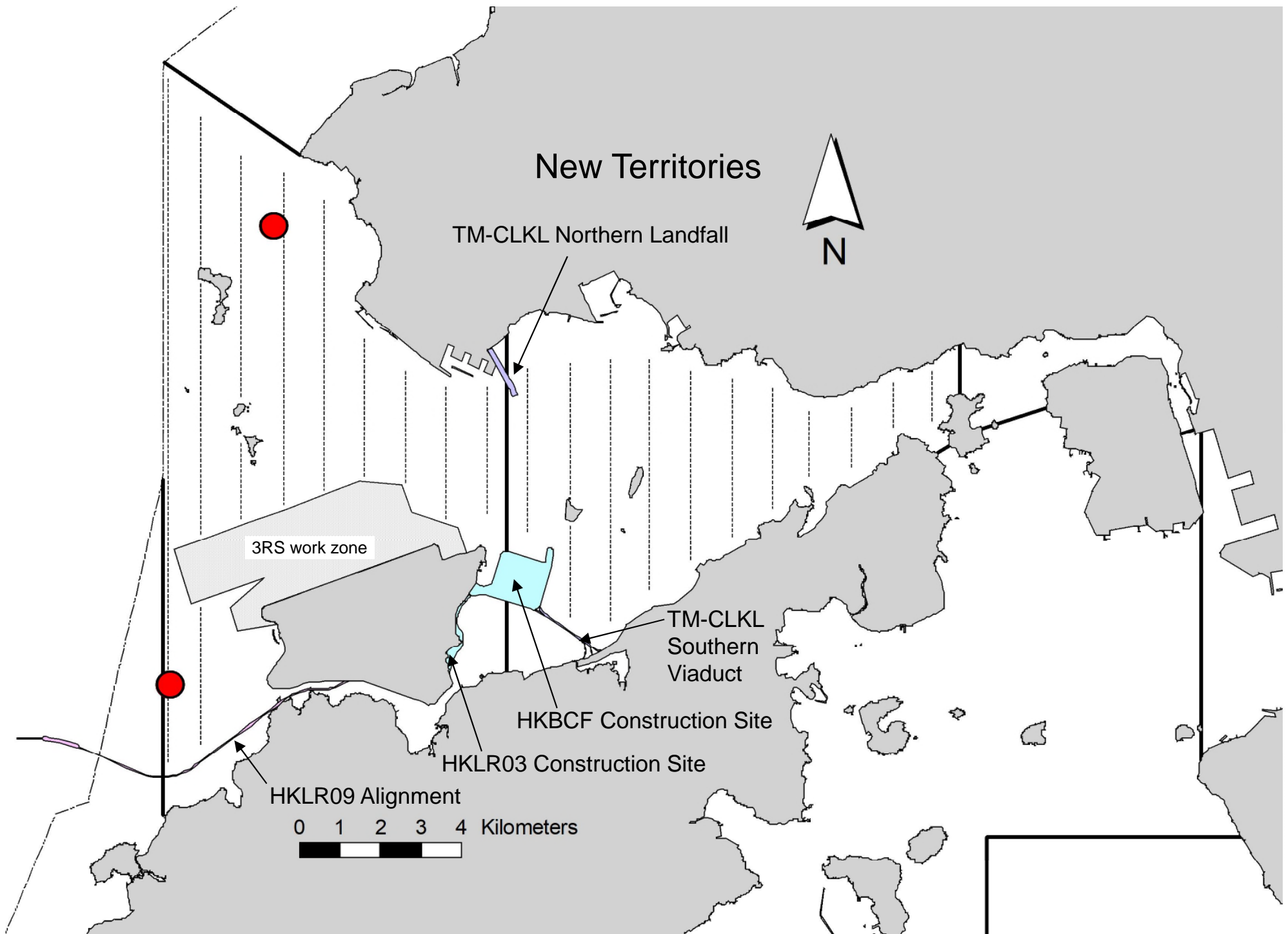


Figure 6. Distribution of Chinese White Dolphin Sightings during November 2021 Monitoring Surveys

Appendix I. TMCLKL Survey Effort Database (November 2021)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
1-Nov-21	NW LANTAU	2	30.50	AUTUMN	STANDARD138716	TMCLKL	P
1-Nov-21	NW LANTAU	3	4.60	AUTUMN	STANDARD138716	TMCLKL	P
1-Nov-21	NW LANTAU	2	11.40	AUTUMN	STANDARD138716	TMCLKL	S
1-Nov-21	NW LANTAU	3	2.40	AUTUMN	STANDARD138716	TMCLKL	S
1-Nov-21	NE LANTAU	2	8.53	AUTUMN	STANDARD138716	TMCLKL	P
1-Nov-21	NE LANTAU	3	8.07	AUTUMN	STANDARD138716	TMCLKL	P
1-Nov-21	NE LANTAU	2	8.81	AUTUMN	STANDARD138716	TMCLKL	S
1-Nov-21	NE LANTAU	3	1.39	AUTUMN	STANDARD138716	TMCLKL	S
9-Nov-21	NW LANTAU	2	15.50	AUTUMN	STANDARD36826	TMCLKL	P
9-Nov-21	NW LANTAU	3	12.36	AUTUMN	STANDARD36826	TMCLKL	P
9-Nov-21	NW LANTAU	2	7.50	AUTUMN	STANDARD36826	TMCLKL	S
9-Nov-21	NW LANTAU	3	1.94	AUTUMN	STANDARD36826	TMCLKL	S
9-Nov-21	NE LANTAU	2	17.85	AUTUMN	STANDARD36826	TMCLKL	P
9-Nov-21	NE LANTAU	3	1.40	AUTUMN	STANDARD36826	TMCLKL	P
9-Nov-21	NE LANTAU	2	10.45	AUTUMN	STANDARD36826	TMCLKL	S
16-Nov-21	NW LANTAU	2	11.17	AUTUMN	STANDARD36826	TMCLKL	P
16-Nov-21	NW LANTAU	3	25.75	AUTUMN	STANDARD36826	TMCLKL	P
16-Nov-21	NW LANTAU	2	6.00	AUTUMN	STANDARD36826	TMCLKL	S
16-Nov-21	NW LANTAU	3	7.00	AUTUMN	STANDARD36826	TMCLKL	S
16-Nov-21	NE LANTAU	2	12.07	AUTUMN	STANDARD36826	TMCLKL	P
16-Nov-21	NE LANTAU	3	2.30	AUTUMN	STANDARD36826	TMCLKL	P
16-Nov-21	NE LANTAU	2	12.13	AUTUMN	STANDARD36826	TMCLKL	S
17-Nov-21	NW LANTAU	2	22.62	AUTUMN	STANDARD138716	TMCLKL	P
17-Nov-21	NW LANTAU	3	1.93	AUTUMN	STANDARD138716	TMCLKL	P
17-Nov-21	NW LANTAU	2	10.85	AUTUMN	STANDARD138716	TMCLKL	S
17-Nov-21	NE LANTAU	1	4.20	AUTUMN	STANDARD138716	TMCLKL	P
17-Nov-21	NE LANTAU	2	15.37	AUTUMN	STANDARD138716	TMCLKL	P
17-Nov-21	NE LANTAU	1	1.80	AUTUMN	STANDARD138716	TMCLKL	S
17-Nov-21	NE LANTAU	2	8.33	AUTUMN	STANDARD138716	TMCLKL	S

Appendix II. TMCLKL Chinese White Dolphin Sighting Database (November 2021)

(Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Lines)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
16-Nov-21	1	1023	1	NW LANTAU	2	238	ON	TMCLKL	817297	804676	AUTUMN	NONE	P
17-Nov-21	1	1125	3	NW LANTAU	2	152	ON	TMCLKL	828000	807231	AUTUMN	NONE	P

Appendix III. Individual dolphins identified during TMCLKL monitoring surveys in (November 2021)

ID#	DATE	STG#	AREA
NL123	17/11/21	1	NW LANTAU
NL202	17/11/21	1	NW LANTAU
WL05	17/11/21	1	NW LANTAU
WL243	16/11/21	1	NW LANTAU



Appendix IV. Photograph of Identified Individual Dolphin in November 2021 (TMCLKL)

Appendix D

Cumulative Statistics on
Exceedances, Complaints,
Notifications of Summons
and Successful Prosecutions

Table D1 *Cumulative Statistics on Exceedances*

Monitoring Parameters	Action/Limit Level	Total No. recorded in this reporting quarter	Total No. recorded since Contract commencement
Post Construction (Operational) Dolphin Monitoring	Action Limit	0 1	0 6

Table D2 *Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Period (November 2021)	0	0	0
Total No. received since Contract commencement	0	0	0