

**For discussion
on 13 May 2014**

LegCo Panel on Food Safety and Environmental Hygiene

**Dengue and Japanese Encephalitis Vector Surveillance Programmes,
Anti-mosquito Campaign 2014 and
Bedbug Control and Prevention**

Purpose

This paper briefs Members on the dengue and Japanese encephalitis (“JE”) vector surveillance programmes, the Anti-mosquito Campaign 2014 as well as bedbug control and prevention work taken forward by the Food and Environmental Hygiene Department (“FEHD”).

Background

2. Apart from causing nuisance to human beings, some species of mosquitoes may pose threat to public health as vectors of diseases, such as dengue fever and JE. Every year, FEHD undertakes relevant vector surveillance programmes and organises anti-mosquito campaigns on a territory-wide basis to enhance public awareness of the potential risk of mosquito-borne diseases, encourage community participation and promote concerted efforts among government departments concerned in anti-mosquito work.

Dengue Vector Surveillance Programme

3. Since 2003, FEHD has put in place an enhanced dengue vector surveillance programme to monitor the distribution of *Aedes albopictus* at selected areas, evaluate the effectiveness of mosquito prevention and control work carried out by various parties, and provide surveillance information to the public for timely adjustment to their mosquito control strategies and measures.

4. Under the dengue vector surveillance programme, small plastic containers, known as ovitraps, are placed at selected locations for detecting the larval breeding rate of Aedine mosquitoes. Ovitrap index is the percentage of ovitraps that are found to have positive larval breeding result. Two different indices, namely Area Ovitrap Index (“AOI”) and Monthly Ovitrap Index (“MOI”), are recorded. AOI indicates the extensiveness of the distribution of Aedine mosquitoes in the surveyed area while MOI reflects the extensiveness of *Aedes albopictus* throughout the territory. A total of 44 areas in the community are currently covered under the surveillance programme. Starting from 2004, the surveillance programme has been extended to cover all major port areas. Port Monthly Ovitrap Index (“PMOI”) is enumerated to reflect the overall monthly situation of mosquito breeding in port areas. All the indices are announced each month on FEHD’s website and through press release.

5. In addition, an ovitrap index rapid alert system targeting the management offices of residential premises, social welfare facilities, schools, construction sites and utilities companies that fall within the 44 areas of surveillance has been introduced to ensure that anti-mosquito measures are taken promptly when the AOI of a particular area reaches the alert level of 20%. Whenever the AOI reaches 20%, subscribers to the system whose premises are situated within the surveillance area concerned will be individually notified by the relevant departments upon the publication of the AOI. Subscribers will be invited to post up specially designed alert notices in the common parts of their premises to draw the attention of occupants and management staff to take mosquito preventive and control measures promptly.

MOIs

6. The MOIs recorded in 2013 were in general lower than those in previous years. A chart showing the trend is at **Annex I**. The MOIs recorded in the first three months were all maintained at a low level of 0.1%. In the following months, the MOIs gradually rose to 14.0% in June, which was the peak of the year. The MOIs dropped from July onwards. The fluctuations in MOIs in 2013 were in general similar to the pattern in previous years. The MOIs from January to March 2014 were 0%.

AOIs

7. In 2013, the highest AOI of 36.2% was recorded in Tseung Kwan O in May, followed by 32.0% in Sai Kung in the same month. A chart showing the trend is at **Annex II**. In total, 16 areas had recorded AOIs reaching or exceeding the alert level of 20% for at least once. In response, FEHD convened district task force meetings and activated the ovitrap rapid alert system for a total of 18 times to step up the co-ordination of government efforts in mosquito control and to mobilise community participation in anti-mosquito efforts.

PMOIs

8. In 2013, the ovitrap indices of the six groups of port areas were below 20%. The highest ovitrap index of 15.8% was recorded in the group of Cross Boundary Ferry Piers in September (see **Annex III**). The PMOIs in 2013 ranged from the lowest of 0% (in January to March and December) to the highest of 1.9% (in June). The fluctuations in PMOIs showed a similar pattern as in previous years. A chart showing the trend is at **Annex IV**. The PMOIs in all port areas from January to March 2014 were 0%.

9. Starting from 2014, the North Lantau Hospital had been included in Tung Chung under the community surveillance programme. Further to the extension of the port dengue vector surveillance programme to cover the areas of the Kai Tak Cruise Terminal which came into operation in September 2013, the coverage will be expanded to the second berth upon its operation scheduled for mid-2014. FEHD will continue to work closely with relevant government departments and organisations, including the Airport Authority, the Mass Transit Railway Corporation and freight forwarding companies, in strengthening the anti-mosquito work in port areas.

JE Vector Surveillance Programme

10. Following the two local JE cases reported in July 2013, a JE vector surveillance programme was set up. Collection of the JE vectors has been carried out at Yuen Long which is a relatively high risk area. A total of 221

samples of the principal vector (*Culex tritaeniorhynchus*) were collected in September and October 2013 and sent to the Public Health Laboratory of the Department of Health for testing the presence of JE virus. All collected vectors were found negative for JE virus. The surveillance programme on JE virus will continue in Yuen Long in the summer months of April to October each year.

Anti-mosquito Campaign 2014

11. Effective mosquito control requires sustained efforts on the part of all parties concerned. In this regard, FEHD has launched a new Anti-mosquito Campaign in early 2014 (“the Campaign”) in collaboration with other relevant government departments to maintain the momentum. With the theme of “Prevent Japanese encephalitis and Dengue Fever - Act Now!”, the Campaign is scheduled for implementation by phases as follows –

Phase I: 24 February – 21 March 2014

Phase II: 28 April – 4 July 2014

Phase III: 18 August – 10 October 2014

12. FEHD’s pest control staff will step up inspection, preventive and control actions and publicity work during the Campaign. Mosquito breeding places will be eliminated or treated with larvicides. Potential breeding grounds and trouble spots identified by district pest control staff will also be covered. Special attention will be paid to areas in close proximity to residential premises, schools, construction sites, illegal cultivation sites, hospitals, waterfront public and private cargo working areas, cross boundary check points, typhoon shelters and cross boundary ferry terminals.

13. Community support is vital to the successful implementation of the Campaign. We will make use of a wide range of promotional channels, such as FEHD’s website, posters, leaflets, Announcements in the Public Interest (“APIs”), VCDs and letters to target groups, to encourage community participation. We will also organise a variety of events and activities, such as roving exhibitions at major shopping malls of housing estates, outreaching health talks, as well as games and theme exhibitions at the Health Education Exhibition and Resource Centre of FEHD. A “Guidebook on Control and

Prevention of Mosquito Breeding” with illustrations on potential mosquito breeding places of and advice to eliminate them is available on FEHD’s website for public access.

14. Relevant government departments will play an active role in the Campaign through anti-mosquito activities in places under their charge and enlist community support for the campaign through their networks. District Councils will also be invited to participate in the Campaign in organising anti-mosquito activities at the district level. The Anti-mosquito Plan for 2014 of the relevant government departments is at **Annex V**.

Control and Prevention of Bedbug Infestation

15. There is at present no known evidence which indicates that bedbug spreads diseases. Bedbug is considered a nuisance pest. They are more commonly found indoors, in such places as the cracks on walls in bed room, folds and tufts of mattresses, coils of springs, cracks and hollow posts of bedsteads, as well as the upholstery of chairs and sofa. There was an increase of complaints on bedbug infestations and requests for assistance in connection with bedbug infestations in public housing estates in the summer months in 2013. The complaints of bedbug infestation and requests for assistance in private buildings are isolated cases and there is no indication of spread of bedbug infestation in the community.

16. Despite the fact that there is no indication of spread of bedbug infestation in the community, FEHD has enhanced its preventive and control work in public refuse collection points (“RCP”) under its management. FEHD conducts inspections to discarded furniture temporarily stored in RCPs pending removal. Disinfestations will be carried out to those discarded furniture which is found to have bedbug infestation.

17. Regarding the situation in public housing estates, the Housing Department (“HD”) attaches great importance to the problem of bedbug. FEHD will closely liaise with HD, provide expert advice on the handling of bedbug infestation to HD according to the situation of individual estates, and hold talks on the prevention and control of bedbugs. To raise tenants’ awareness of bedbug infestation and the need to take appropriate precautionary

measures, FEHD will arrange educational talks jointly with HD in estates with higher number of bedbug complaints before the summer months.

18. At present, a good number of private companies that provide pest control services are available on the market. To help the public better understand the bedbug problem, FEHD has uploaded information on bedbug control onto its website, published relevant leaflets for general reference and organized thematic talks to the public.

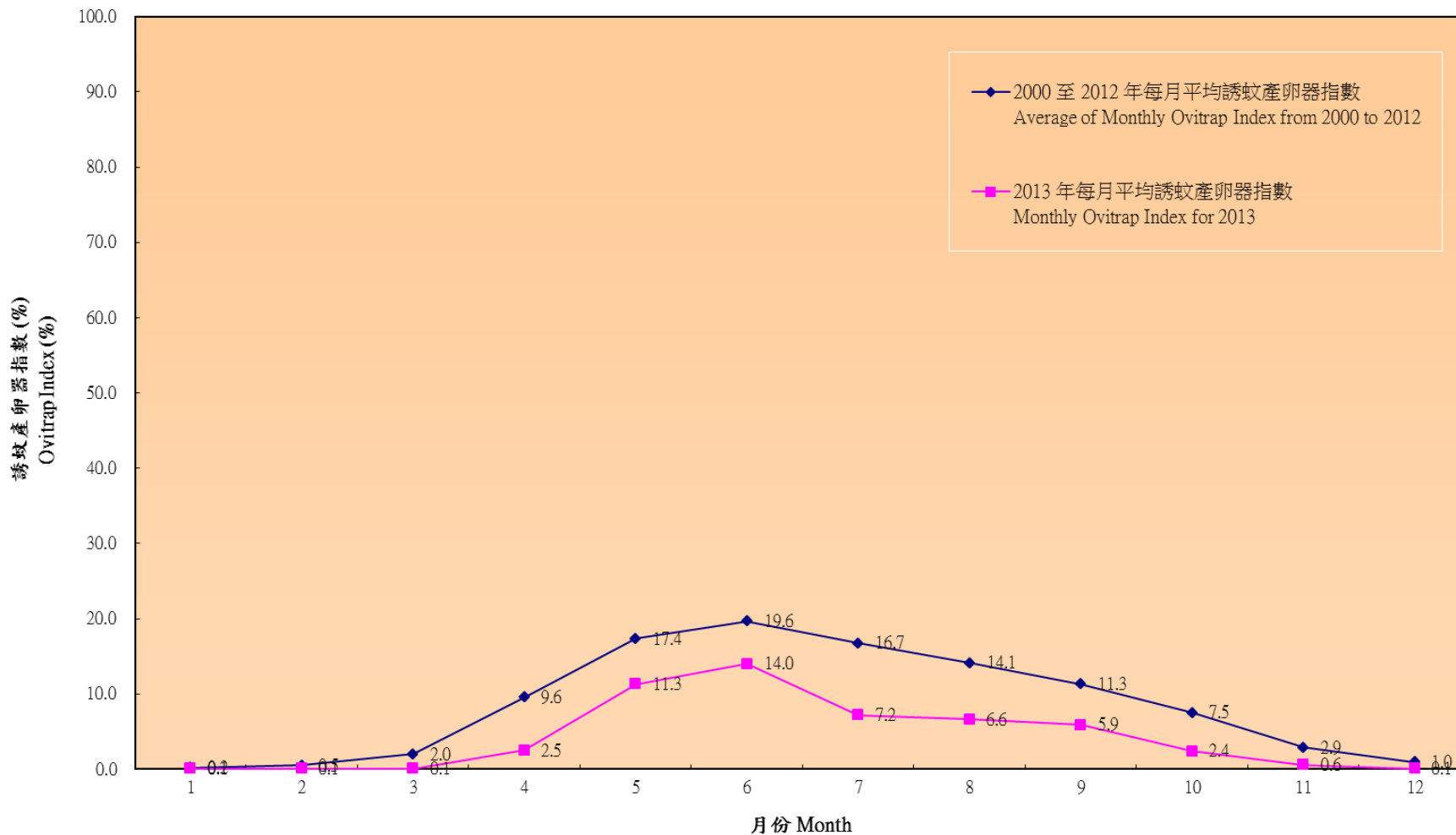
19. FEHD will monitor the overall situation and when the situation so warrants, will enhance the preventive measures to prevent the spread of bedbug infestation in the community.

Advice Sought

20. Members are invited to note the paper.

Food and Health Bureau
Food and Environmental Hygiene Department
May 2014

2000-12年與2013年白紋伊蚊誘蚊產卵器指數比較
 Comparison of Monthly Average Ovitrap Index (2000-12 and 2013)



Ovitrapp Indices for 44 locations in 19 districts – 2013

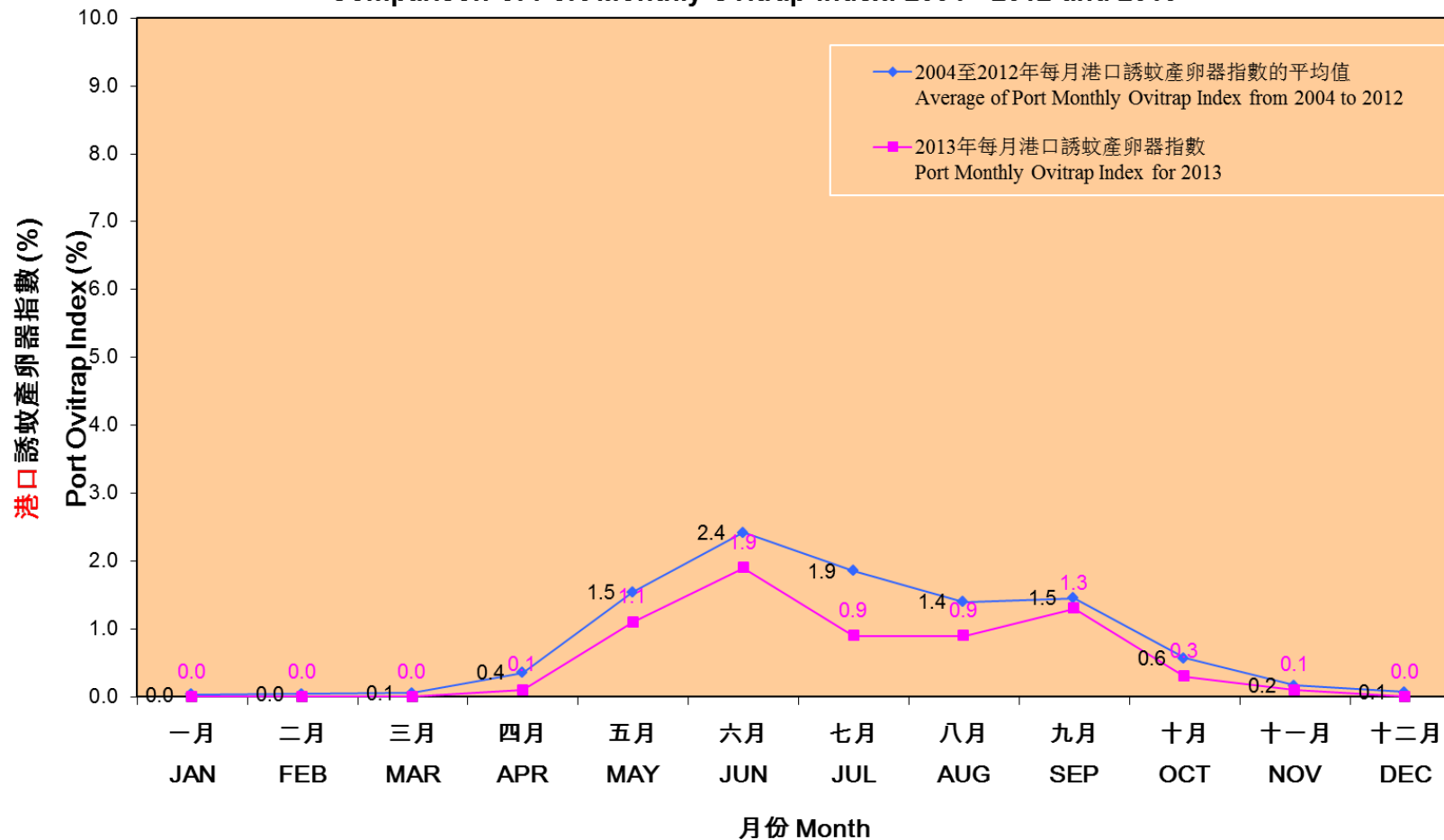
	Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Hong Kong Island & Outlying Islands	Chai Wan West	0.0%	0.0%	0.0%	0.0%	1.8%	10.7%	7.0%	5.3%	5.4%	3.6%	0.0%	0.0%
	Shau Kei Wan and Sai Wan Ho	0.0%	0.0%	0.0%	0.0%	3.5%	25.4%	10.2%	17.2%	5.1%	5.0%	0.0%	0.0%
	North Point	1.9%	0.0%	0.0%	0.0%	5.7%	22.2%	9.4%	0.0%	3.7%	0.0%	1.9%	0.0%
	Wan Chai North	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	10.2%	14.0%	8.3%	4.2%	2.2%	0.0%
	Happy Valley	0.0%	1.8%	0.0%	0.0%	3.5%	15.8%	3.5%	1.8%	0.0%	0.0%	5.3%	0.0%
	Central, Sheung Wan and Sai Ying Pun	0.0%	0.0%	0.0%	1.8%	16.4%	16.4%	12.7%	5.6%	7.4%	3.7%	0.0%	0.0%
	Sai Wan	0.0%	0.0%	0.0%	0.0%	11.5%	20.8%	5.8%	9.6%	5.7%	0.0%	0.0%	0.0%
	Aberdeen and Ap Lei Chau	0.0%	0.0%	0.0%	1.8%	18.2%	14.5%	11.3%	3.8%	3.6%	0.0%	0.0%	0.0%
	Pokfulam	0.0%	0.0%	0.0%	10.9%	11.8%	24.5%	9.4%	1.9%	1.9%	9.3%	1.9%	0.0%
	Deep Water Bay and Repulse Bay	0.0%	0.0%	0.0%	5.5%	16.4%	21.8%	13.2%	3.6%	9.1%	0.0%	0.0%	0.0%
	Cheung Chau	0.0%	0.0%	0.0%	0.0%	5.6%	2.8%	5.6%	5.7%	2.8%	0.0%	0.0%	0.0%
	Tung Chung	0.0%	0.0%	0.0%	5.7%	19.4%	11.1%	2.9%	2.9%	2.8%	0.0%	0.0%	0.0%
Kowloon	Tsim Sha Tsui	0.0%	0.0%	0.0%	0.0%	5.2%	8.6%	12.3%	14.0%	10.3%	0.0%	0.0%	1.8%
	Mong Kok	0.0%	0.0%	0.0%	0.0%	3.6%	3.6%	7.4%	12.7%	3.8%	12.7%	2.0%	0.0%
	Lai Chi Kok	0.0%	0.0%	0.0%	1.8%	1.9%	10.9%	0.0%	5.6%	0.0%	0.0%	0.0%	0.0%
	Sham Shui Po East	0.0%	0.0%	0.0%	7.4%	16.7%	11.1%	2.0%	5.6%	5.7%	0.0%	0.0%	0.0%
	Cheung Sha Wan	0.0%	0.0%	0.0%	3.7%	13.7%	16.7%	12.2%	9.6%	2.0%	0.0%	0.0%	0.0%
	Kowloon City North	0.0%	0.0%	0.0%	1.8%	16.4%	9.1%	3.6%	1.9%	1.8%	0.0%	0.0%	0.0%
	Hung Hom	0.0%	0.0%	0.0%	0.0%	0.0%	3.8%	1.9%	5.7%	7.4%	0.0%	0.0%	0.0%
	Ho Man Tin	0.0%	0.0%	0.0%	0.0%	7.4%	9.1%	18.9%	11.5%	9.3%	3.7%	0.0%	0.0%
	Wong Tai Sin Central	0.0%	0.0%	0.0%	1.6%	6.3%	17.7%	16.1%	11.3%	4.8%	8.1%	1.6%	0.0%

	Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	Diamond Hill	0.0%	0.0%	0.0%	0.0%	7.3%	9.1%	7.3%	5.5%	7.3%	0.0%	0.0%	0.0%
	Kwun Tong Central	0.0%	0.0%	0.0%	16.4%	20.0%	28.6%	11.8%	14.3%	5.6%	1.8%	1.8%	0.0%
	Lam Tin	0.0%	0.0%	0.0%	1.8%	23.6%	11.1%	9.3%	7.4%	7.3%	2.0%	1.9%	0.0%
New Territory East	Tseung Kwan O	0.0%	0.0%	0.0%	16.7%	36.2%	30.5%	5.0%	13.3%	3.3%	5.1%	0.0%	0.0%
	Sai Kung Town	0.0%	0.0%	0.0%	0.0%	32.0%	10.0%	0.0%	0.0%	2.0%	0.0%	0.0%	0.0%
	Ma On Shan	0.0%	0.0%	0.0%	0.0%	1.7%	20.7%	5.3%	12.3%	3.4%	3.4%	0.0%	0.0%
	Yuen Chau Kok	0.0%	0.0%	0.0%	0.0%	3.6%	12.7%	14.3%	7.7%	5.8%	3.8%	0.0%	0.0%
	Tai Wai	0.0%	0.0%	0.0%	0.0%	5.4%	21.4%	3.6%	8.9%	5.5%	5.5%	1.8%	1.8%
	Tai Po	0.0%	0.0%	0.0%	3.7%	7.3%	12.7%	11.3%	7.3%	16.4%	9.1%	0.0%	0.0%
	Fanling	0.0%	0.0%	0.0%	0.0%	9.4%	13.5%	15.1%	8.0%	19.6%	1.9%	0.0%	0.0%
	Sheung Shui	0.0%	0.0%	0.0%	0.0%	11.1%	5.5%	5.5%	1.9%	12.7%	1.8%	0.0%	0.0%
New Territory West	Tin Shui Wai	0.0%	0.0%	0.0%	1.8%	12.5%	16.4%	7.0%	3.6%	1.8%	0.0%	0.0%	0.0%
	Yuen Kong	0.0%	0.0%	0.0%	0.0%	12.0%	21.7%	0.0%	4.2%	12.0%	0.0%	4.0%	0.0%
	Yuen Long Town	0.0%	0.0%	0.0%	3.8%	5.6%	5.7%	3.6%	3.6%	1.9%	3.6%	0.0%	0.0%
	Tuen Mun (S)	0.0%	0.0%	0.0%	1.9%	13.2%	15.1%	5.9%	12.2%	11.8%	3.9%	0.0%	0.0%
	Tuen Mun (N)	0.0%	0.0%	0.0%	0.0%	25.4%	10.7%	8.6%	3.4%	5.1%	5.1%	0.0%	0.0%
	So Kwun Wat	0.0%	0.0%	1.8%	0.0%	23.6%	9.6%	3.8%	1.9%	3.8%	0.0%	0.0%	0.0%
	Tsuen Wan Town	0.0%	0.0%	0.0%	0.0%	6.7%	8.3%	1.7%	1.7%	5.2%	0.0%	0.0%	0.0%
	Ma Wan	0.0%	0.0%	0.0%	4.0%	0.0%	0.0%	4.0%	4.0%	0.0%	0.0%	0.0%	0.0%
	Sheung Kwai Chung	0.0%	0.0%	0.0%	5.7%	20.4%	16.7%	2.0%	0.0%	5.7%	0.0%	2.0%	0.0%
	Kwai Chung	0.0%	0.0%	0.0%	0.0%	11.3%	18.9%	1.8%	3.8%	1.8%	0.0%	0.0%	0.0%
	Lai King	0.0%	0.0%	0.0%	3.6%	14.5%	23.6%	7.4%	5.5%	10.9%	1.9%	0.0%	0.0%
	Tsing Yi	1.9%	0.0%	0.0%	7.3%	7.0%	7.0%	1.9%	5.3%	9.1%	0.0%	0.0%	0.0%
Monthly Ovitrap Index		0.1%	0.1%	0.1%	2.5%	11.3%	14.0%	7.2%	6.6%	5.9%	2.4%	0.6%	0.1%

Results of Ovitrap Surveillance in Port Areas in 2013

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Hong Kong International Airport	0.0%	0.0%	0.0%	0.1%	0.5%	0.7%	0.6%	0.6%	0.4%	0.1%	0.1%	0.0%
Cross Boundary Check Points on Land	0.0%	0.0%	0.0%	0.0%	8.9%	11.8%	3.0%	4.1%	2.4%	0.0%	0.6%	0.0%
Private Cargoes Working Areas	0.0%	0.0%	0.0%	0.0%	8.8%	8.9%	3.9%	6.3%	6.4%	5.0%	0.0%	0.0%
Cross Boundary Ferry Piers	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	0.0%	0.0%	15.8%	0.0%	0.0%	0.0%
Container Terminals	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Public Cargoes Working Areas	0.0%	0.0%	0.0%	0.0%	4.2%	11.2%	4.2%	1.7%	1.7%	2.6%	0.0%	0.0%
Port Monthly Ovitrap Index	0.0%	0.0%	0.0%	0.1%	1.1%	1.9%	0.9%	0.9%	1.3%	0.3%	0.1%	0.0%

2004至2012年與2013年每月港口誘蚊產卵器指數比較
Comparison of Port Monthly Ovitrap Index: 2004 - 2012 and 2013



Anti-mosquito Plan for 2014

Bureau/ Department	Action Plan
Agriculture, Fisheries and Conservation Department (“AFCD”)	<p><u>Fish Farms and Fishermen</u></p> <ul style="list-style-type: none">● To distribute anti-mosquito advisory leaflets to mariculturists at AFCD’s licence renewal service counters, during regular farm inspections, and through the representatives in the Mariculturists Liaison and Support Group of the Red Tide Reporting Network.● To issue advisory letters together with anti-mosquito leaflets to fishermen associations. <p><u>Local Livestock Farms</u></p> <ul style="list-style-type: none">● To issue advisory letters and publicity leaflets to livestock farmers and livestock associations to raise their awareness of anti-mosquito measures.● To inspect livestock farms for any potential mosquito breeding sites and remind farmers to take proper anti-mosquito measures during routine farm inspections. <p><u>Government Wholesale Food Markets</u></p> <ul style="list-style-type: none">● To issue advisory letters and notices at regular intervals to market traders and cleansing contractors to remind them to keep the market clean and to raise their awareness of anti-mosquito measures.● To closely monitor the performance of the cleansing contractors and ensure that they will apply larvicide regularly to market drains to prevent breeding of mosquitoes.● To carry out special operations to keep market clean and to eliminate potential mosquito breeding grounds. <p><u>Cheung Sha Wan Wholesale Vegetable Market under Vegetable Marketing Organization (“VMO”)</u></p> <ul style="list-style-type: none">● To continue conducting regular inspections, surprise checks and cleansing of the wholesale vegetable market and issuing advisory notices to market users advising them of the

Bureau/ Department	Action Plan
	<p>importance of maintaining the cleanliness of the market and removal of stagnant water.</p> <ul style="list-style-type: none"> ● To maintain close contact with the Food and Environmental Hygiene Department (“FEHD”) to eliminate potential mosquito breeding sites directly adjacent to the VMO market premises. <p><u>Wholesale Fish Markets under Fish Marketing Organization (“FMO”)</u></p> <ul style="list-style-type: none"> ● To continue conducting regular inspections, surprise checks and cleansing of all FMO markets and issuing advisory notices to market users advising them of the importance of maintaining the cleanliness of the market and removal of stagnant water. <p><u>Country Parks</u></p> <ul style="list-style-type: none"> ● To regularly inspect and cleanse recreation sites, hiking trails and construction sites and carry out clearance of overgrown vegetation in these areas. ● To continue effort in advising visitors to protect themselves against mosquitoes and other insect bites through oral advice, leaflets, posters and warning signs. ● To level depressions which can hold water and remove water storage devices found in country parks to prevent mosquito breeding. ● To advise morning walkers not to keep containers in gardens and hillsides and remove any unauthorised planting sites and water storage devices found in country parks. <p><u>Mai Po Nature Reserve (“MPNR”) and Hong Kong Wetland Park (“HKWP”)</u></p> <ul style="list-style-type: none"> ● To display posters at suitable locations in MPNR and HKWP to alert staff of AFCD and World Wide Fund Hong Kong (“WWFHK”) to take measures to eliminate mosquito breeding grounds and to advise them and visitors to take preventive measures to avoid mosquito bites. ● To distribute anti-mosquito leaflets to visitors. ● Staff of WWFHK and contractor of HKWP will eliminate stagnant water and mosquito breeding grounds in all their

Bureau/ Department	Action Plan
	buildings, structures, boats, visitor facilities and gei wai bund areas in the MPNR and HKWP regularly.
Development Bureau	<ul style="list-style-type: none"> ● The high-level Interdepartmental Working Group on Mosquito Prevention at Works Sites will continue to closely monitor the situation at public works sites. ● To continue to liaise with the FEHD to ensure effective anti-mosquito measures are undertaken by contractors at public works sites.
Department of Health (“DH”)	<p><u>World Health Day 2014 Publicity and Public Education Campaign</u></p> <ul style="list-style-type: none"> ● World Health Day (“WHD”) is celebrated on 7 April every year to mark the anniversary of the founding of the World Health Organization in 1948. Each year a theme is selected that highlights a priority area of public health. The theme for 2014 is vector-borne diseases. ● To echo the theme of WHD 2014, DH, with the support from a number of government departments/bureaux and supporting organisations, has launched a territory-wide publicity and public education campaign from April 2014 onwards to raise awareness about the threat posed by vectors and vector-borne diseases and to stimulate families and communities to take the following actions: <ul style="list-style-type: none"> (a) protect themselves from vectors and vector-borne diseases while in Hong Kong and when travelling to countries where these pose a health threat, and (b) prevent vector proliferation. ● A press conference to kick-off the campaign was issued on 3 April 2014. <p><u>On-going publicity activities on mosquito-borne diseases</u></p> <ul style="list-style-type: none"> ● Other publicity and health education activities on prevention of mosquito-borne diseases will be continued in 2014 : <ul style="list-style-type: none"> (a) to liaise with the Information Services Department to coordinate the broadcasting of relevant television & radio

Bureau/ Department	Action Plan
	<p>APIs and video clips;</p> <p>(b) to arrange media interviews and publication of feature articles in magazines and newspapers on mosquito-borne diseases;</p> <p>(c) to update and upload relevant information onto the Centre for Health Protection (“CHP”) website and 24-Hour Health Education Hotline;</p> <p>(d) to establish hyperlinks in the DH and other relevant website;</p> <p>(e) to enhance publicity in the Summer Programme 2014 by distributing printed materials to various places including health sectors, schools, public and private housing estates, public facilities of the Leisure and Cultural Services Department (“LCSD”) and non-government organisations (“NGOs”); and</p> <p>(f) to provide health educational materials for supporting schools, Government departments, NGOs or private sectors to enhance publicity at community level.</p> <ul style="list-style-type: none"> • Preventive measures at boundary control points (“BCPs”) and health advice for travellers: <ul style="list-style-type: none"> (a) to continue monitoring and control of mosquito breeding sites at the airport, all sea & land BCPs, cargo handling facilities and cross-boundary conveyances by regular inspection and close liaison with relevant stakeholders including operators of the BCPs and conveyances, District Pest Control Teams and Pest Control Advisory Section of FEHD; (b) to continue distribution of leaflets and display of posters on anti-mosquito measures at all BCPs; (c) to continue uploading updated health messages and outbreak news onto Travel Health Service website; (d) to continue health talk/ advice for travel agents/ tour guides at Travel Industry Council of Hong Kong; and (e) to include mosquito-borne diseases including malaria, dengue fever, yellow fever and Japanese encephalitis

Bureau/ Department	Action Plan
	<p>(“JE”) as topics in the travel health bulletins.</p> <ul style="list-style-type: none"> ● Other measures: <ul style="list-style-type: none"> (a) to disseminate information on mosquito-borne diseases and health education messages through letter-to-doctor, press releases and via the articles published in Communicable Diseases Watch as appropriate; (b) to update the “Global Malaria Risk Summary” in 2013 by Scientific Committee on Vector-borne Diseases of the CHP; and (c) Contingency Preparedness <ul style="list-style-type: none"> ● Organised a two-fold exercise code-named “Exercise CORAL” in November 2013 and March 2014 to test the Government departments’ preparedness for the possible community outbreak of dengue fever.
Education Bureau (“EDB”)	<ul style="list-style-type: none"> ● EDB will jointly organise with the FEHD a seminar on the dengue fever and JE vectors for school personnel in May 2014 and alert schools within 100m of any positive traps identified in FEHD’s Monthly Ovitrap Surveys to strengthen preventive measures against mosquitoes. ● Circular Memoranda regarding strengthening of preventive measures against mosquitoes have been uploaded on EDB’s webpage for schools’ reference.
Food and Environmental Hygiene Department	<ul style="list-style-type: none"> ● Since the coming into operation of the Public Health and Municipal Services (Amendment) Ordinance on 12 May 2006, 168 prosecutions as at 31 March 2014 concerning the control of water and article likely to cause mosquito breeding have been taken out against persons responsible for the management of premises under section 27(3A) of the Public Health and Municipal Services Ordinance (Cap. 132). FEHD will continue to take enforcement actions against persons in breach of this legislation. ● FEHD will continue to assist the Housing Department (“HD”) in taking enforcement action against households found with mosquito breeding grounds. ● FEHD will continue to convene district anti-mosquito task force

Bureau/ Department	Action Plan
	<p>meetings with the concerned departments/parties and provide necessary advice and assistance to them in formulating mosquito prevention strategies whenever situation warrants, such as when Area Ovitrap Index (“AOI”) reaches 20% or above.</p> <ul style="list-style-type: none"> ● All FEHD District Environmental Hygiene Offices convened a special anti-mosquito task force meeting in March 2014 before the start of the rainy season to enhance relevant departments’ awareness of the importance of mosquito control in venues under their management. ● FEHD continues with the dengue vector surveillance programme which covers a total of 44 areas. ● FEHD has maintained the ovitrap rapid alert system targeting at the management offices of residential premises, social welfare facilities, schools and utilities companies and construction companies with work sites that fall within the 44 areas of surveillance. Subscribers to the system will be notified immediately when the AOI of the area where their premises are located has reached the alert level of 20%. They will also be requested to post up specially designed alert notices in the common areas of their premises. ● With effect from January 2014, two more ovitraps would be set up at the surveyed area “Tung Chung” for covering North Lantau Hospital. ● Quick tests on dengue virus has been conducted on dengue vectors collected in areas where AOIs have reached/exceeded 20% starting from 2014. ● The JE vector surveillance programme at Yuen Long will be continued from April to October for test on JE virus. ● The port dengue vector surveillance programme has been extended to Kai Tak Cruise Terminal in September 2013. Further coverage to the second berth is planned for mid-2014. <p><u>Publicity and Education Activities in 2014</u></p> <ul style="list-style-type: none"> ● The 2014 diary on anti-mosquito measures was uploaded to FEHD’s website in November 2013. ● Outreaching talks on mosquito prevention and control have

Bureau/ Department	Action Plan
	<p>been organised for students, teachers, property management, home for the elderly and construction site management, etc.</p> <ul style="list-style-type: none"> ● AOI, Monthly Ovitrap Index (“MOI”) and Port Ovitrap Index (“POI”) have been released to the press on a monthly basis. ● Anti-mosquito exhibitions have been staged since February 2014 and would last until end of the year at FEHD’s Health Education Exhibition and Resource Centre. ● The slogan “Prevent Japanese encephalitis and Dengue Fever - Act Now!” (齊來把蚊滅 預防日本腦炎登革熱) of the Anti-mosquito Campaign 2014 and other anti-mosquito messages are promulgated through the following channels- <ul style="list-style-type: none"> (a) television and radio APIs; (b) publicity materials e.g. posters, pamphlets, banners and diaries; (c) VCDs and letters to target groups e.g. construction sites management, public / private housing estates management; (d) FEHD’s homepage and hotline; (e) games / competition; (f) talks on anti-mosquito measures; (g) roving exhibitions; and (h) a broadcasting van. <p><u>Territory-wide Anti-mosquito Campaign 2014</u></p> <ul style="list-style-type: none"> ● The territory-wide Anti-mosquito Campaign (“the Campaign”) has been / would be implemented in three phases as follows: <ul style="list-style-type: none"> Phase I: 24 February 2014 – 21 March 2014 Phase II: 28 April 2014 – 4 July 2014 Phase III: 18 August 2014 – 10 October 2014 ● The Campaign aims at – <ul style="list-style-type: none"> (a) Enhancing public awareness of the potential risk of dengue fever, JE and other mosquito-borne diseases; (b) encouraging community participation and forging close

Bureau/ Department	Action Plan
	<p>partnership among government departments concerned in anti-mosquito work; and</p> <p>(c) eliminating potential mosquito breeding sites.</p> <p><u>Territory-wide Thematic Anti-mosquito Operations in 2014</u></p> <ul style="list-style-type: none"> ● March - April 2014. A three-week thematic operation targeting at village houses, cross boundary check points, passenger and cargo/container terminals, construction sites and problematic spots was launched between 31 March and 17 April 2014 to sustain the momentum after completion of Phase I of the Campaign. ● July – August 2014. A four-week thematic operation will be launched between 14 July and 8 August 2014 targeting at old tenement buildings, private residential buildings, cross boundary check points, passenger and cargo/container terminals, open space in the vicinity of pig farms, sites with gathering of migratory birds, construction sites and problematic spots after completion of Phase II of the Campaign. ● October – November 2014. A six-week thematic operation will be launched between 20 October and 28 November 2014 targeting at village houses, old tenement buildings, private residential buildings, cross boundary check points, passenger and cargo/container terminals, open space in the vicinity of pig farms, sites with gathering of migratory birds, construction sites and problematic spots after completion of Phase III of the Campaign.
Government Property Agency (“GPA”)	<ul style="list-style-type: none"> ● For properties under GPA’s purview, the relevant Property Management Agents (“PMA”) are required to take the following anti-mosquito measures: <ul style="list-style-type: none"> (a) to put up relevant posters/notices to arouse awareness of occupants/residents and solicit their support to guard against mosquito-transmitted diseases; (b) to conduct daily inspection of areas where water may accumulate, e.g. drain holes, sand traps and gully traps, etc.; (c) to apply larvicide to all drains once a week;

Bureau/ Department	Action Plan
	<ul style="list-style-type: none"> (d) to conduct Pest Control at all common areas 1-2 times a month; (e) to remind nearby construction sites to take anti-mosquitoes measures; (f) to closely contact with FEHD to apply larvicide to nearby areas; (g) to remind officers in joint-user office buildings to prevent accumulation of water in relation to office plants; (h) to seal up keyholes of manhole covers with adhesive tape to prevent breeding of mosquitoes; (i) to put up special posters/notices to arouse awareness of occupants/residents about JE and dengue fever; and (j) to implement appropriate measures to prevent JE and dengue fever. <ul style="list-style-type: none"> ● When the AOIs recorded by FEHD have risen above the alert level, respective PMA will step up the anti-mosquito measures as follows: <ul style="list-style-type: none"> (a) to brief their cleaning staff about anti-mosquito measures; (b) to increase the frequency of inspection to potential mosquito breeding grounds, e.g. roofs; (c) to remove water from roofs and open areas after rain; (d) to clear drains and surface channels to prevent blockage; (e) to remove stagnant water; and (f) to fill up any defective ground surface.
Home Affairs Department (“HAD”)	<ul style="list-style-type: none"> ● To assist with the dissemination of anti-mosquito message, for example, by distributing anti-mosquito leaflets and posters and facilitating community talks and exhibitions. ● To carry out ad hoc maintenance, such as grass cutting, along village footpaths and access roads maintained by HAD.

Bureau/ Department	Action Plan
Housing Department	<p>Promotional / Publicity and Educational Programmes</p> <ul style="list-style-type: none"> <li>● To enrich and update the general knowledge in environmental hygiene and prevention of mosquito breeding in estates for staff members of HD, Property Service Agents and cleansing operatives, a seminar on “Prevention of Mosquito Breeding in Estate 2014” will be held in May 2014 with the support from FEHD and DH. <li>● Tenants will continuously be encouraged to report mosquito breeding black spots through the Housing Authority Hotline. <li>● Inspection guidelines and checklist have been provided to frontline management staff for guidance. <li>● Community education against mosquito breeding will be stepped up through promotional posters, notices and leaflets, estate newsletters, Estate Management Advisory Committee meetings and video segments/messages posted onto the Housing Channel through the LCD monitor installed at the G/F lift lobbies of public rental housing (“PRH”) blocks. <li>● Roving carnivals will be carried out across PRH estates on public hygiene and epidemic prevention such as anti-mosquito and rodent measures etc. <p>Enhanced Anti-mosquito Actions</p> <ul style="list-style-type: none"> <li>● Estate management offices have been instructed to mobilise necessary resources and work closely with FEHD for the implementation of the territory-wide Anti-mosquito Campaign 2014. <li>● Anti-mosquito Special Cleansing Squads set up in all PRH estates will continue to carry out daily inspection of gullies, surface channels, hill slopes, flower beds etc. to eliminate accumulation of stagnant water at potential mosquito breeding black spots. <li>● Mosquito catching apparatuses have been placed at strategic points of PRH estates located in areas with relatively high AOI. <li>● Estates within districts with AOI over 10% will be alerted to step up anti-mosquito measures. Those estates within districts with AOI at alert level of 20% or above will be required to put up eye-catching notices at the G/F lift lobby of each estate

Bureau/ Department	Action Plan
	<p>block to alert tenants and solicit their cooperation and support to step up anti-mosquito measures in the estates.</p> <ul style="list-style-type: none"> ● Regular inspections in PRH estates will continue to be conducted by HD, in conjunction with FEHD, to monitor the effectiveness of the anti-mosquito measures. ● Overgrown vegetations on flower beds and slopes will be pruned from time to time. Larvicide will be applied to manholes and surface channels. Maintenance work such as clearing of blocked drains and paving of uneven ground will be sped up. ● All building contractors of HD will be demanded to clear up any stagnant water in construction sites and keep the sites clean. Cleansing contractors will also be required to strengthen their efforts in keeping PRH estates and work sites clean. <p>Enforcement Action</p> <ul style="list-style-type: none"> ● HD will strengthen enforcement actions under the ‘Marking Scheme for Estate Management Enforcement in public housing estates’ and call for tenants’ cooperation. Five penalty points will be allotted to households for committing the offence of “causing mosquito breeding by accumulating stagnant water” under the Scheme.
Lands Department	<ul style="list-style-type: none"> ● To have a regular programme of inspection and, if necessary, cleaning of the fenced off Government sites. ● To conduct grass cutting and tidy up government land site black spots. To apply larvicidal oil or pesticide as and when necessary and take action to level the uneven ground where stagnant water is easily accumulated. ● To clear identified hillside illegal cultivation black spots to eliminate mosquito breeding grounds. ● To prosecute offender of illegal cultivation. ● To carry out grass cutting and tidy up the fenced government land sites within 100m radius of the locations having high ovitrap index. ● To conduct joint operation with other departments in fighting against mosquito-borne disease.

Bureau/ Department	Action Plan
	<ul style="list-style-type: none"> ● To distribute government posters and pamphlets through District Lands Offices to educate the general public. ● To remind government departments that allocated sites should be kept in a clean and tidy condition and that grass cutting should be performed regularly. ● To issue letters to tenants (Short Term Tenancies) and licensees (Government Land Licences) in assisting the Government in mosquito prevention.
Leisure and Cultural Services Department	<ul style="list-style-type: none"> ● Carry out mosquito control operations at LCSD venues, involving special anti-mosquito operations and special cleansing operations. ● Continue to operate mosquito trapping devices at LCSD venues. ● Conduct roving exhibitions on mosquito control and prevention of dengue fever at LCSD venues. ● Display and distribute anti-mosquito publicity materials including banners, posters and leaflets. ● Step up enforcement action against littering offenders at LCSD venues.
