

## **Appendix D. Monitoring Results**

## **Air Quality Monitoring Results**

**1-hour TSP Results**

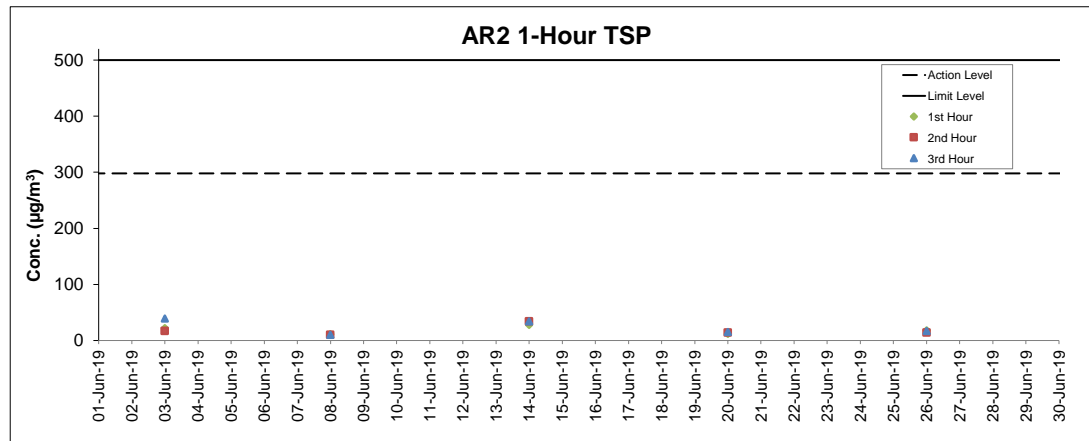
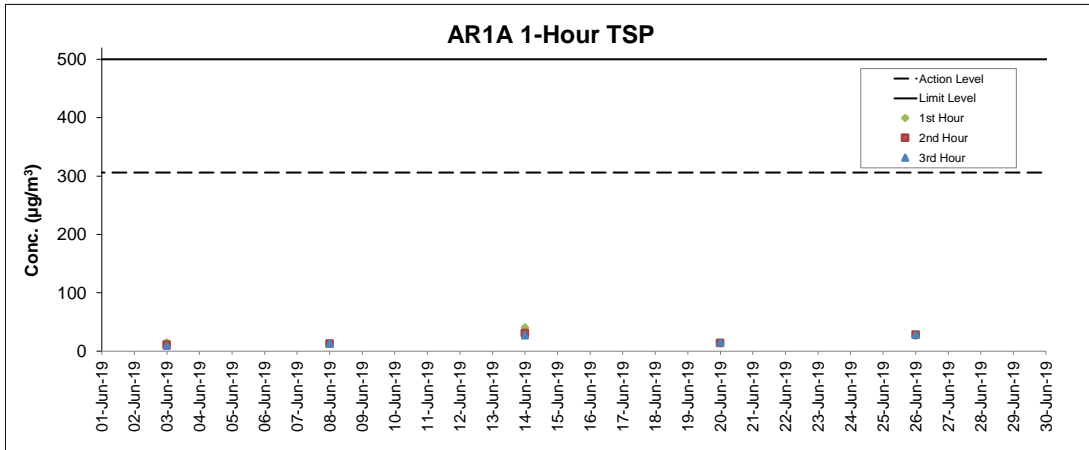
**Station: AR1A- Man Tung Road Park**

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
03-Jun-19	14:28	Sunny	7.7	224	15	306	500
03-Jun-19	15:28	Sunny	7.4	230	11	306	500
03-Jun-19	16:28	Sunny	6.8	232	9	306	500
08-Jun-19	14:54	Sunny	7.5	226	14	306	500
08-Jun-19	15:54	Sunny	7.1	227	13	306	500
08-Jun-19	16:54	Sunny	7.5	230	13	306	500
14-Jun-19	14:15	Sunny	4.2	275	41	306	500
14-Jun-19	15:15	Sunny	4.5	286	31	306	500
14-Jun-19	16:15	Sunny	4.8	323	27	306	500
20-Jun-19	14:11	Sunny	7.0	238	14	306	500
20-Jun-19	15:11	Sunny	6.8	229	14	306	500
20-Jun-19	16:11	Sunny	6.3	198	15	306	500
26-Jun-19	14:12	Cloudy	3.8	248	26	306	500
26-Jun-19	15:12	Cloudy	4.5	222	28	306	500
26-Jun-19	16:12	Cloudy	3.6	45	28	306	500

**1-hour TSP Results**

**Station: AR2- Village House, Tin Sum**

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
03-Jun-19	9:24	Sunny	6.3	210	22	298	500
03-Jun-19	10:24	Sunny	5.3	216	17	298	500
03-Jun-19	11:24	Sunny	5.4	226	39	298	500
08-Jun-19	9:09	Sunny	4.6	203	11	298	500
08-Jun-19	10:09	Sunny	6.8	225	10	298	500
08-Jun-19	11:09	Sunny	7.6	224	10	298	500
14-Jun-19	9:31	Sunny	2.6	343	28	298	500
14-Jun-19	10:31	Sunny	4.6	335	34	298	500
14-Jun-19	11:31	Sunny	3.3	320	34	298	500
20-Jun-19	9:19	Sunny	4.3	199	12	298	500
20-Jun-19	10:19	Sunny	5.4	238	14	298	500
20-Jun-19	11:19	Sunny	5.0	236	15	298	500
26-Jun-19	9:27	Cloudy	2.3	289	18	298	500
26-Jun-19	10:27	Cloudy	3.1	280	14	298	500
26-Jun-19	11:27	Cloudy	4.5	238	17	298	500



**Notes**

1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
2. Weather conditions during monitoring are presented in the data tables above.
3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

## Noise Monitoring Results

### Noise Measurement Results

#### Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
03-Jun-19	Sunny	14:39	71.9	59.3	73
03-Jun-19	Sunny	14:44	74.4	62.5	
03-Jun-19	Sunny	14:49	73.1	59.9	
03-Jun-19	Sunny	14:54	74.0	61.1	
03-Jun-19	Sunny	14:59	73.5	63.1	
03-Jun-19	Sunny	15:04	72.8	61.4	
14-Jun-19	Sunny	14:34	73.2	59.6	73
14-Jun-19	Sunny	14:39	73.6	61.4	
14-Jun-19	Sunny	14:44	72.8	59.1	
14-Jun-19	Sunny	14:49	73.2	58.4	
14-Jun-19	Sunny	14:54	71.2	57.3	
14-Jun-19	Sunny	14:59	72.2	58.0	
20-Jun-19	Sunny	16:23	73.3	55.4	72
20-Jun-19	Sunny	16:28	70.3	54.6	
20-Jun-19	Sunny	16:33	72.5	55.4	
20-Jun-19	Sunny	16:38	73.4	54.6	
20-Jun-19	Sunny	16:43	73.7	54.5	
20-Jun-19	Sunny	16:48	71.4	54.4	
26-Jun-19	Cloudy	15:28	72.1	54.6	72
26-Jun-19	Cloudy	15:33	73.1	55.9	
26-Jun-19	Cloudy	15:38	72.6	55.4	
26-Jun-19	Cloudy	15:43	72.9	54.7	
26-Jun-19	Cloudy	15:48	72.1	55.3	
26-Jun-19	Cloudy	15:53	72.5	55.4	

Remarks:

+3dB (A) correction was applied to free-field measurement.

### Noise Measurement Results

#### Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
03-Jun-19	Sunny	15:48	62.2	58.8	64
03-Jun-19	Sunny	15:53	61.6	58.6	
03-Jun-19	Sunny	15:58	61.8	59.5	
03-Jun-19	Sunny	16:03	61.7	59.1	
03-Jun-19	Sunny	16:08	61.4	59.1	
03-Jun-19	Sunny	16:13	63.6	59.3	
12-Jun-19	Cloudy	16:55	61.1	56.7	63
12-Jun-19	Cloudy	17:00	61.1	57.4	
12-Jun-19	Cloudy	17:05	60.0	56.9	
12-Jun-19	Cloudy	17:10	60.5	57.0	
12-Jun-19	Cloudy	17:15	62.6	58.0	
12-Jun-19	Cloudy	17:20	62.8	58.7	
19-Jun-19	Sunny	11:06	61.9	59.0	63
19-Jun-19	Sunny	11:11	61.4	58.3	
19-Jun-19	Sunny	11:16	61.4	58.6	
19-Jun-19	Sunny	11:21	62.4	58.4	
19-Jun-19	Sunny	11:26	61.1	58.1	
19-Jun-19	Sunny	11:31	61.4	58.0	
25-Jun-19	Cloudy	11:01	67.0	61.9	64
25-Jun-19	Cloudy	11:06	67.2	63.5	
25-Jun-19	Cloudy	11:11	67.2	63.5	
25-Jun-19	Cloudy	11:16	66.8	62.9	
25-Jun-19	Cloudy	11:21	66.8	63.6	
25-Jun-19	Cloudy	11:26	67.4	64.6	

Remarks:

+3dB (A) correction was applied to free-field measurement.

### Noise Measurement Results

#### Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
03-Jun-19	Sunny	09:29	53.1	46.5	61
03-Jun-19	Sunny	09:34	54.8	46.2	
03-Jun-19	Sunny	09:39	63.3	47.5	
03-Jun-19	Sunny	09:44	59.4	52.9	
03-Jun-19	Sunny	09:49	63.1	58.9	
03-Jun-19	Sunny	09:54	61.7	58.8	
14-Jun-19	Sunny	09:37	55.2	48.2	62
14-Jun-19	Sunny	09:42	59.6	48.5	
14-Jun-19	Sunny	09:47	56.3	48.8	
14-Jun-19	Sunny	09:52	56.7	48.3	
14-Jun-19	Sunny	09:57	67.9	50.2	
14-Jun-19	Sunny	10:02	60.7	51.4	
20-Jun-19	Sunny	09:34	51.5	45.4	59
20-Jun-19	Sunny	09:39	49.9	43.7	
20-Jun-19	Sunny	09:44	64.8	44.0	
20-Jun-19	Sunny	09:49	56.6	46.1	
20-Jun-19	Sunny	09:54	58.0	56.1	
20-Jun-19	Sunny	09:59	57.1	54.4	
26-Jun-19	Cloudy	09:29	58.3	56.0	53
26-Jun-19	Cloudy	09:34	57.2	54.4	
26-Jun-19	Cloudy	09:39	57.2	50.9	
26-Jun-19	Cloudy	09:44	55.8	50.0	
26-Jun-19	Cloudy	09:49	61.1	50.6	
26-Jun-19	Cloudy	09:54	51.3	47.5	

Remarks:

+3dB (A) correction was applied to free-field measurement.

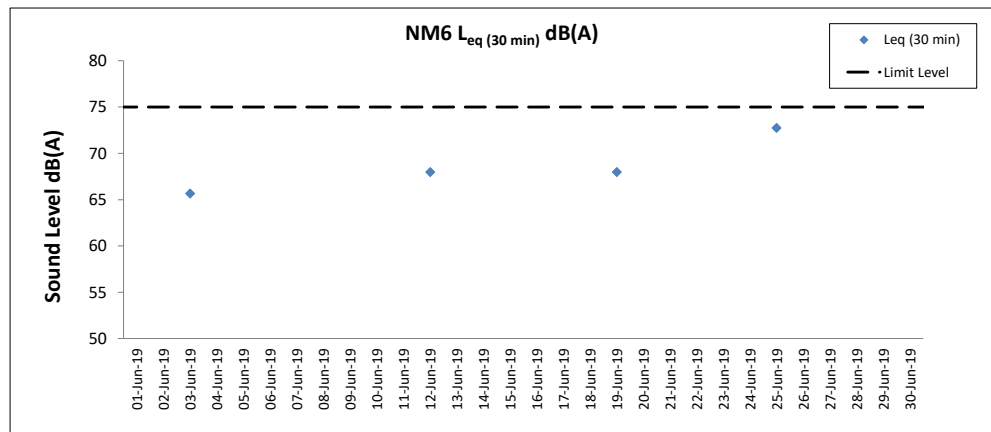
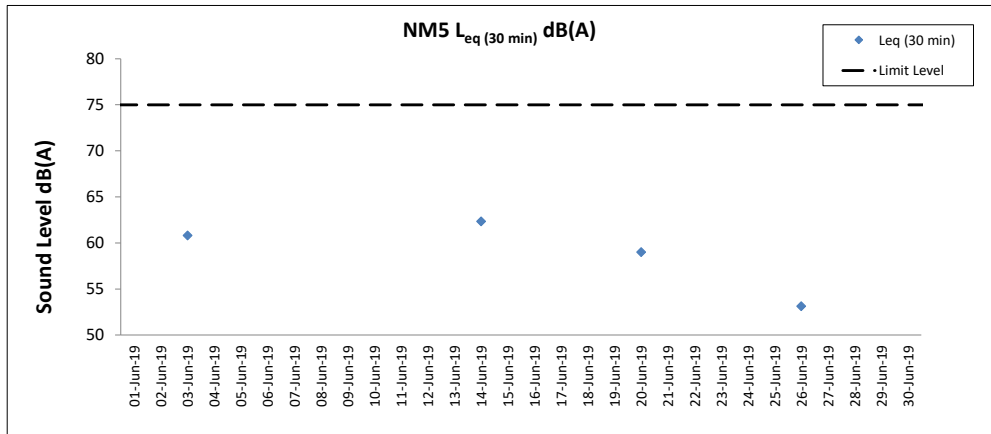
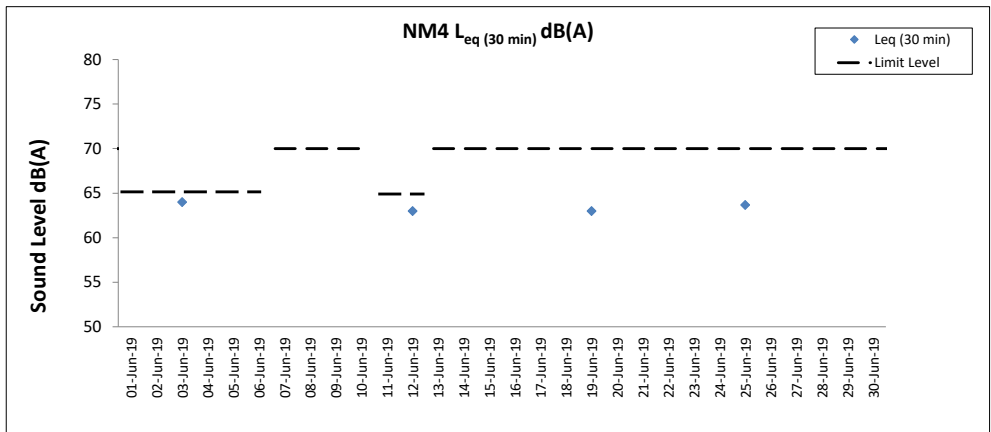
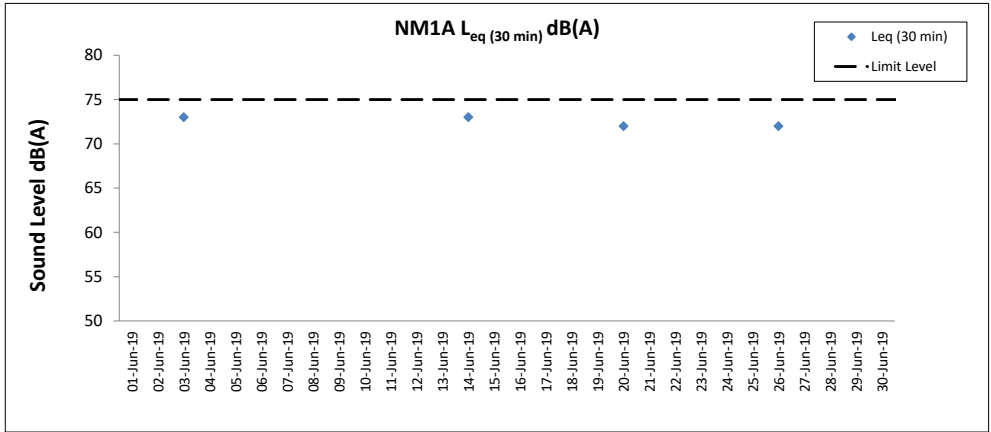
### Noise Measurement Results

#### Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
03-Jun-19	Cloudy	13:40	71.8	52.3	66
03-Jun-19	Cloudy	13:45	71.7	51.6	
03-Jun-19	Cloudy	13:50	69.5	52.9	
03-Jun-19	Cloudy	13:55	71.3	51.2	
03-Jun-19	Cloudy	14:00	75.1	52.3	
03-Jun-19	Cloudy	14:05	63.8	49.6	
12-Jun-19	Cloudy	15:41	69.4	48.5	68
12-Jun-19	Cloudy	15:46	71.3	47.7	
12-Jun-19	Cloudy	15:51	73.7	59.4	
12-Jun-19	Cloudy	15:56	73.3	49.8	
12-Jun-19	Cloudy	16:01	69.5	46.1	
12-Jun-19	Cloudy	16:06	70.4	49.9	
19-Jun-19	Sunny	09:45	75.4	49.9	68
19-Jun-19	Sunny	09:50	71.2	49.5	
19-Jun-19	Sunny	09:55	74.5	49.6	
19-Jun-19	Sunny	10:00	72.0	48.6	
19-Jun-19	Sunny	10:05	75.9	48.4	
19-Jun-19	Sunny	10:10	62.2	50.1	
25-Jun-19	Cloudy	09:41	76.2	60.5	73
25-Jun-19	Cloudy	09:46	78.8	62.6	
25-Jun-19	Cloudy	09:51	72.2	59.9	
25-Jun-19	Cloudy	09:56	75.4	60.7	
25-Jun-19	Cloudy	10:01	75.8	62.4	
25-Jun-19	Cloudy	10:06	73.0	63.2	

Remarks:

+3dB (A) correction was applied to free-field measurement.



**Notes**

1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
2. Weather conditions during monitoring are presented in the data tables above.
3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

## **Water Quality Monitoring Results**



Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on **01 June 19** during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA				
C1	Fine	Moderate	11:35	8.3	Surface	1.0	0.1	246	26.8	26.8	8.0	8.0	19.6	19.6	94.1	94.2	6.8	6.8	7.2	5	6	87	90	815603	804251	<0.2	2.2	<0.2	2.1						
						1.0	0.1	246	26.8	26.8	8.0	8.0	19.5	19.6	94.3	94.2	6.8	6.8	7.2	5	6	87	90			<0.2	2.2	<0.2	2.2						
					4.2	0.1	33	26.9	26.9	8.0	8.0	19.2	19.2	95.2	95.4	6.8	6.8	6.2	5	6	90	90	<0.2			2.2	<0.2	2.2							
					4.2	0.1	35	26.9	26.9	8.0	8.0	19.2	19.2	95.5	95.4	6.9	6.9	6.4	6	6	90	90	<0.2			2.2	<0.2	2.2							
					7.3	0.1	104	26.7	26.7	7.9	7.9	25.1	25.0	92.8	92.9	6.5	6.5	6.9	6	6	91	93	<0.2			2.2	<0.2	2.2							
					7.3	0.1	105	26.7	26.7	7.9	7.9	25.0	25.0	92.9	92.9	6.5	6.5	6.5	7	6	93	93	<0.2			2.2	<0.2	2.2							
					1.0	0.6	177	25.7	25.7	7.9	7.9	26.6	26.6	84.2	84.2	5.9	5.9	2.3	2	3	84	88	<0.2			3.0	<0.2	3.1							
					1.0	0.7	186	25.7	25.7	7.9	7.9	26.6	26.6	84.1	84.1	5.9	5.9	2.3	2	3	84	88	<0.2			3.1	<0.2	3.2							
					5.9	0.4	160	25.7	25.7	7.8	7.8	26.5	26.5	83.9	83.9	5.9	5.9	2.5	3	3	88	88	<0.2			3.2	<0.2	3.1							
					5.9	0.4	173	25.7	25.7	7.8	7.8	26.5	26.5	83.9	83.9	5.9	5.9	2.5	3	3	88	88	<0.2			3.1	<0.2	3.1							
10.8	0.5	141	25.7	25.7	7.8	7.8	27.2	27.2	83.4	83.4	5.8	5.8	3.1	3	3	91	91	<0.2	3.1	<0.2	3.1														
10.8	0.5	150	25.7	25.7	7.8	7.8	27.2	27.2	83.4	83.4	5.8	5.8	3.2	3	3	91	91	<0.2	3.2	<0.2	3.2														
C3	Fine	Moderate	10:41	12.1	Surface	1.0	0.3	99	27.0	27.0	7.9	7.9	17.7	17.7	88.5	88.6	6.4	6.4	3.8	4	4	86	89	822113	817782	<0.2	1.7	<0.2	1.6						
						1.0	0.3	105	27.0	27.0	7.9	7.9	17.7	17.7	88.6	88.6	6.4	6.4	3.8	4	4	85	89			<0.2	1.6	<0.2	1.6						
					6.1	0.2	22	26.7	26.7	8.0	8.0	17.5	17.5	88.5	88.5	6.4	6.4	4.1	4	4	89	90	<0.2			1.6	<0.2	1.6							
					6.1	0.2	22	26.7	26.7	8.0	8.0	17.5	17.5	88.5	88.5	6.4	6.4	4.1	4	4	89	90	<0.2			1.6	<0.2	1.6							
					11.1	0.3	117	26.7	26.7	7.9	7.9	18.7	18.7	88.0	88.1	6.4	6.4	5.0	4	4	93	93	<0.2			1.6	<0.2	1.6							
					11.1	0.3	119	26.6	26.6	7.9	7.9	18.7	18.7	88.1	88.1	6.4	6.4	5.2	4	4	93	93	<0.2			1.6	<0.2	1.6							
					1.0	0.4	214	27.1	27.1	8.0	8.0	20.5	20.5	92.9	92.9	6.6	6.6	4.8	4	4	87	87	<0.2			2.3	<0.2	2.3							
					1.0	0.4	233	27.1	27.1	8.0	8.0	20.5	20.5	92.8	92.8	6.6	6.6	4.7	5	4	87	87	<0.2			2.3	<0.2	2.3							
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	89	817941	807120	<0.2	-	<0.2	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	<0.2	-	<0.2	-
4.3	0.2	180	27.0	27.0	8.0	8.0	20.2	20.1	92.4	92.5	6.6	6.6	3.5	4	4	90	91	<0.2	2.3	<0.2	2.2														
4.3	0.3	182	27.0	27.0	8.0	8.0	20.1	20.1	92.5	92.5	6.6	6.6	3.6	4	4	91	91	<0.2	2.2	<0.2	2.2														
IM2	Fine	Moderate	11:58	7.6	Surface	1.0	0.2	212	26.9	26.9	8.0	8.0	18.0	18.0	95.4	95.6	6.9	6.9	9.7	4	6	86	89	818181	806179	<0.2	2.4	<0.2	2.4						
						1.0	0.2	227	26.9	26.9	8.0	8.0	18.0	18.0	95.8	95.6	6.9	6.9	9.7	5	6	86	89			<0.2	2.4	<0.2	2.4						
					3.8	0.1	170	26.6	26.6	8.0	8.0	22.9	22.9	91.0	91.0	6.4	6.4	4.9	5	6	90	90	<0.2			2.6	<0.2	2.5							
					3.8	0.1	172	26.6	26.6	8.0	8.0	22.9	22.9	91.0	91.0	6.4	6.4	4.9	6	6	90	90	<0.2			2.5	<0.2	2.5							
					6.6	0.1	195	26.7	26.7	7.9	7.9	22.3	22.3	91.6	91.7	6.5	6.5	8.2	7	7	92	92	<0.2			2.5	<0.2	2.5							
					6.6	0.1	202	26.7	26.7	7.9	7.9	22.3	22.3	91.8	91.7	6.5	6.5	8.7	8	7	92	92	<0.2			2.5	<0.2	2.5							
					1.0	0.3	194	27.2	27.2	8.0	8.0	17.7	17.7	92.5	92.4	6.7	6.6	6.6	4	4	86	87	<0.2			2.4	<0.2	2.4							
					1.0	0.3	197	27.1	27.1	8.0	8.0	17.7	17.7	92.3	92.4	6.6	6.6	6.5	4	4	87	87	<0.2			2.4	<0.2	2.4							
					3.9	0.2	142	27.0	27.0	7.9	7.9	19.2	19.2	91.5	91.5	6.6	6.6	4.5	5	5	90	91	<0.2			2.3	<0.2	2.3							
					3.9	0.2	150	26.9	26.9	7.9	7.9	19.2	19.2	91.5	91.5	6.6	6.6	4.7	5	5	91	91	<0.2			2.3	<0.2	2.3							
6.7	0.2	147	26.8	26.8	7.9	7.9	22.9	22.9	91.6	91.7	6.4	6.4	4.7	7	7	92	92	<0.2	2.2	<0.2	2.2														
6.7	0.2	154	26.8	26.8	7.9	7.9	22.9	22.9	91.7	91.7	6.5	6.5	4.5	6	6	92	92	<0.2	2.2	<0.2	2.2														
IM4	Fine	Moderate	12:12	7.8	Surface	1.0	0.2	195	27.0	27.0	8.0	8.0	16.5	16.5	91.7	91.9	6.7	6.7	5.3	4	6	86	89	819728	804612	<0.2	2.2	<0.2	2.2						
						1.0	0.2	210	27.0	27.0	8.0	8.0	16.5	16.5	92.0	91.9	6.7	6.7	5.3	4	6	87	89			<0.2	2.2	<0.2	2.2						
					3.9	0.2	130	26.7	26.7	8.0	8.0	21.1	21.1	89.5	89.5	6.4	6.4	9.6	6	6	90	90	<0.2			2.5	<0.2	2.5							
					3.9	0.2	134	26.7	26.7	8.0	8.0	21.1	21.1	89.5	89.5	6.4	6.4	9.6	5	6	90	90	<0.2			2.3	<0.2	2.3							
					6.8	0.3	151	26.7	26.7	8.0	8.0	22.7	22.7	88.9	88.9	6.3	6.3	8.4	8	8	91	91	<0.2			2.6	<0.2	2.6							
					6.8	0.3	156	26.7	26.7	8.0	8.0	22.7	22.7	88.9	88.9	6.3	6.3	8.8	7	7	92	92	<0.2			2.6	<0.2	2.6							
					1.0	0.7	196	26.6	26.6	7.9	7.9	20.1	20.1	92.6	92.8	6.6	6.6	9.0	4	5	85	88	<0.2			2.2	<0.2	2.2							
					1.0	0.8	200	26.6	26.6	7.9	7.9	20.1	20.1	92.9	92.7	6.7	6.6	9.0	5	5	88	89	<0.2			2.4	<0.2	2.4							
					3.9	0.7	175	26.6	26.6	7.9	7.9	20.1	20.1	90.4	90.5	6.5	6.5	5.4	4	5	89	88	<0.2			2.2	<0.2	2.2							
					3.9	0.7	178	26.6	26.6	7.9	7.9	20.1	20.1	90.5	90.5	6.5	6.5	5.4	5	5	88	88	<0.2			2.2	<0.2	2.2							
6.8	0.4	179	26.6	26.6	8.0	8.0	20.1	20.1	90.1	90.2	6.5	6.5	4.2	6	6	92	92	<0.2	2.2	<0.2	2.2														
6.8	0.5	179	26.6	26.6	8.0	8.0	20.1	20.1	90.3	90.3	6.5	6.5	4.3	5	5	93	93	<0.2	2.4	<0.2	2.4														
IM6	Fine	Moderate	12:30	8.2	Surface	1.0	0.6	218	26.7	26.7	7.9	7.9	20.1	20.1	91.7	91.9	6.6	6.6	7.3	6	6	85	88	821055	805827	<0.2	2.3	<0.2	2.5						
						1.0	0.6	239	26.6	26.6	7.9	7.9	20.1	20.1	92.0	91.9	6.6	6.6	7.9	6	6	86	87			<0.2	2.5	<0.2	2.0						
					4.1	0.7	195	26.6	26.6	7.9	7.9	21.1	21.1	92.4	92.6	6.6	6.6	5.8	6	6	87	88	<0.2			2.0	<0.2	2.0							
					4.1	0.7	204	26.6	26.6	7.9	7.9	21.1	21.1	92.7	92.6	6.6	6.6	5.8	7	6	88	90	<0.2			1.8	<0.2	1.8							
					7.2	0.1	136	26.6	26.6	7.9	7.9	21.4	21.4	89.0	89.1	6.3	6.3	5.2	6	6	90	90	<0.2			1.8	<0.2	1.8							
					7.2	0.1																													

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 01 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	11:55	7.8	Surface	1.0	0.4	110	26.4	26.4	8.0	8.0	17.6	17.6	86.2	86.2	6.3	6.3	3.4	4	86	90	822101	808817	<0.2	1.7	<0.2	1.7					
						1.0	0.4	117	26.4	8.0	8.0	17.6	17.6	86.2	86.2	6.3	6.3	3.4	4	86	90												
						3.9	0.5	115	26.4	8.0	8.0	17.1	17.1	85.8	85.8	6.3	6.3	2.9	4	91	90												
					Middle	3.9	0.5	124	26.4	8.0	8.0	17.1	17.1	85.8	85.8	6.3	6.3	3.2	3	90	90												
						6.8	0.3	95	26.3	8.0	8.0	17.6	17.6	85.4	85.5	6.2	6.2	3.7	3	94	94												
						6.8	0.3	101	26.3	8.0	8.0	17.6	17.6	85.5	85.5	6.2	6.2	3.8	3	94	94												
					Bottom	1.0	0.7	111	26.6	26.6	8.0	8.0	13.5	13.5	88.7	88.7	6.6	6.6	4.3	3	86	90											
						1.0	0.8	113	26.6	26.6	8.0	8.0	13.5	13.5	88.7	88.7	6.6	6.6	4.3	3	86	90											
						3.9	0.7	110	26.6	26.6	8.1	8.1	14.3	14.3	89.8	89.9	6.7	6.7	4.9	5	91	90											
Middle	3.9	0.7	119	26.6	26.6	8.1	8.1	14.3	14.3	89.9	89.9	6.7	6.7	4.9	4	90	90																
	6.7	0.5	99	26.7	26.7	8.1	8.1	15.1	15.1	90.5	90.6	6.7	6.7	5.1	4	94	94																
	6.7	0.5	104	26.7	26.7	8.1	8.1	15.1	15.1	90.6	90.6	6.7	6.7	5.1	4	94	94																
IM10	Fine	Moderate	11:47	7.7	Surface	1.0	0.8	108	26.7	26.7	8.0	8.0	11.8	11.8	90.6	90.6	6.8	6.8	3.7	3	87	90	822053	811471	<0.2	1.8	<0.2	1.8					
						1.0	0.8	108	26.7	26.7	8.0	8.0	11.8	11.8	90.6	90.6	6.8	6.8	3.7	4	86	90											
						4.2	0.6	101	26.6	26.6	8.0	8.0	14.1	14.1	87.1	87.1	6.5	6.5	3.7	3	90	90											
					Middle	4.2	0.6	108	26.6	26.6	8.0	8.0	14.1	14.1	87.1	87.1	6.5	6.5	3.7	4	90	90											
						7.4	0.2	124	26.5	26.5	7.9	7.9	16.5	16.5	85.6	85.6	6.3	6.3	4.1	3	94	94											
						7.4	0.3	136	26.5	26.5	7.9	7.9	16.5	16.5	85.6	85.6	6.3	6.3	4.2	4	94	94											
					Bottom	1.0	0.6	111	26.7	26.7	8.0	8.0	12.1	12.1	90.4	90.4	6.8	6.8	3.7	4	86	90											
						1.0	0.7	119	26.7	26.7	8.0	8.0	12.1	12.1	90.4	90.4	6.8	6.8	3.7	3	86	90											
						4.4	0.7	106	26.5	26.5	7.9	7.9	15.1	15.1	88.2	88.2	6.5	6.5	3.7	4	90	90											
Middle	4.4	0.7	115	26.5	26.5	7.9	7.9	15.1	15.1	88.2	88.2	6.5	6.5	3.7	4	90	90																
	7.8	0.4	97	26.6	26.6	8.0	8.0	14.9	14.9	88.3	88.4	6.5	6.5	4.0	4	94	94																
	7.8	0.4	98	26.6	26.6	8.0	8.0	14.9	14.9	88.5	88.5	6.5	6.5	4.0	5	93	93																
SR1A	Fine	Moderate	11:15	5.3	Surface	1.0	-	-	26.5	26.5	7.9	7.9	17.2	17.2	86.6	86.6	6.3	6.3	4.0	5	-	-	819973	812661	-	-	<0.2	-					
						1.0	-	-	26.5	26.5	7.9	7.9	17.2	17.2	86.6	86.6	6.3	6.3	4.0	5	-	-											
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
						4.3	-	-	26.6	26.6	7.9	7.9	16.2	16.2	88.2	88.2	6.5	6.5	3.7	4	-	-											
						4.3	-	-	26.6	26.6	7.9	7.9	16.2	16.2	88.1	88.1	6.5	6.5	3.6	5	-	-											
					Bottom	1.0	0.7	98	26.4	26.4	7.9	7.9	18.0	18.0	87.1	87.2	6.3	6.3	4.7	4	86	88											
						1.0	0.7	107	26.4	26.4	7.9	7.9	18.0	18.0	87.2	87.2	6.4	6.4	4.5	4	87	88											
						4.2	0.4	116	26.5	26.5	7.9	7.9	18.0	18.0	86.6	86.7	6.3	6.3	4.1	3	90	90											
Middle	4.2	0.4	119	26.5	26.5	7.9	7.9	18.0	18.0	86.7	86.7	6.3	6.3	4.2	3	90	90																
	7.9	0.1	181	25.9	25.9	8.0	8.0	25.3	25.3	88.2	88.3	6.2	6.2	2.1	3	-	-																
	7.9	0.1	187	25.9	25.9	8.0	8.0	25.3	25.3	88.3	88.3	6.2	6.2	2.1	2	-	-																
Bottom	4.3	0.2	130	25.9	25.9	8.0	8.0	24.4	24.4	88.9	88.9	6.3	6.3	2.2	4	-	-																
	4.3	0.2	133	25.9	25.9	8.0	8.0	24.4	24.4	88.9	88.9	6.3	6.3	2.3	3	-	-																
	7.6	0.1	206	25.9	25.9	8.0	8.0	25.8	25.8	88.0	88.0	6.2	6.2	2.6	4	-	-																
SR3	Fine	Moderate	12:09	8.6	Surface	1.0	0.1	181	25.9	25.9	8.0	8.0	25.3	25.3	88.2	88.3	6.2	6.2	2.1	3	-	-	822155	807585	-	-	<0.2	-					
						1.0	0.1	187	25.9	25.9	8.0	8.0	25.3	25.3	88.3	88.3	6.2	6.2	2.1	2	-	-											
						4.3	0.2	130	25.9	25.9	8.0	8.0	24.4	24.4	88.9	88.9	6.3	6.3	2.2	4	-	-											
					Middle	4.3	0.2	133	25.9	25.9	8.0	8.0	24.4	24.4	88.9	88.9	6.3	6.3	2.3	3	-	-											
						7.6	0.1	206	25.9	25.9	8.0	8.0	25.8	25.8	88.0	88.0	6.2	6.2	2.6	4	-	-											
						7.6	0.1	225	25.9	25.9	8.0	8.0	25.8	25.8	88.0	88.0	6.2	6.2	2.6	4	-	-											
					Bottom	1.0	0.1	167	27.2	27.2	7.9	7.9	19.7	19.7	95.9	96.1	6.8	6.8	5.3	4	-	-											
						1.0	0.1	167	27.2	27.2	7.9	7.9	19.7	19.7	96.2	96.2	6.8	6.8	5.7	4	-	-											
						4.4	0.0	170	27.3	27.3	8.0	8.0	15.2	15.2	97.5	97.7	7.1	7.1	7.9	4	-	-											
Middle	4.4	0.0	170	27.3	27.3	8.0	8.0	15.2	15.2	97.8	97.7	7.1	7.1	8.5	4	-	-																
	7.8	0.0	194	27.2	27.2	8.0	8.0	16.1	16.1	96.0	96.0	7.0	7.0	10.2	4	-	-																
	7.8	0.0	202	27.2	27.2	8.0	8.0	16.1	16.1	96.0	96.0	7.0	7.0	10.1	4	-	-																
SR4A	Fine	Moderate	11:15	8.8	Surface	1.0	0.1	93	27.0	27.0	7.9	7.9	17.3	17.3	95.3	95.4	6.9	6.9	3.7	4	-	-	817168	807819	-	-	<0.2	-					
						1.0	0.1	94	27.0	27.0	7.9	7.9	17.3	17.3	95.4	95.4	6.9	6.9	3.8	3	-	-											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
						3.6	0.3	101	27.1	27.1	7.9	7.9	17.6	17.6	95.9	95.9	6.9	6.9	4.9	5	-	-											
						3.6	0.3	103	27.1	27.1	7.9	7.9	17.6	17.6	95.9	95.9	6.9	6.9	5.4	6	-	-											
					Bottom	1.0	0.2	79	27.5	27.5	7.9	7.9	20.1	20.0	91.3	91.3	6.4	6.4	6.7	4	-	-											
						1.0	0.2	81	27.6	27.6	7.9	7.9	20.0	20.0	91.3	91.3	6.4	6.4	6.7	4	-	-											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	3.3	0.0	47	27.3	27.3	7.9	7.9	20.9	20.9	89.2	89.2	6.3	6.3	8.8	5	-	-																
	3.3	0.0	50	27.3	27.3	7.9	7.9	20.9	20.9	89.1	89.1	6.3	6.3	8.5	4	-	-																
SR6	Fine	Moderate	10:30	4.3	Surface	1.0	1.2	78	27.4	27.4	8.0	8.0	11.9	11.9	93.9	93.9	7.0	6.8	3.6	4	-	-	823653	823726	-	-	<0.2	-					
						1.0	1.3	83	27.4	27.4	8.0	8.0	11.9	11.9	93.8	93.8	6.9	6.8	3.7	4	-	-											
						7.4	0.3	119	27.1	27.1	7.9	7.9	14.0	14.0	90.4	90.4	6.7	6.7	3.5	4	-	-											
					Middle	7.4	0.4	130	27.1	27.1	7.9	7.9	14.0	14.0	90.4	90.4	6.7	6.7	3.4	4	-	-											
						13.7	0.1	359	27.3	27.3	7.9	7.9	13.4	13.4	90.8	90.9	6.7	6.7	3.4	4	-	-											
						13.7	0.1	330	27.3	27.3	7.9	7.9	13.4	13.4	90.9	90.9	6.7	6.7	3.4	4	-	-											
					Bottom	1																											

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 01 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	
								Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value			Value	Value	Value	Value	Value
C1	Fine	Moderate	17:42	8.3	Surface	1.0	0.3	49	26.6	26.6	8.0	8.0	13.4	13.4	95.4	95.4	7.1	7.1	6.2	6.2	4	4	87	87	815611	804227	<0.2	1.4	<0.2	1.4
						1.0	0.3	52	26.6	26.6	8.0	8.0	13.4	13.4	95.4	95.4	7.1	7.1	6.2	6.2	4	4	88	88	<0.2	1.4	<0.2	1.4		
						4.2	0.2	37	26.7	26.7	8.1	8.1	12.7	12.7	94.4	94.4	7.1	7.1	4.1	4.1	3	3	90	90	<0.2	1.5	<0.2	1.6		
					Middle	4.2	0.3	39	26.7	26.7	8.1	8.1	12.7	12.7	94.4	94.4	7.1	7.1	4.1	4.1	3	3	90	90	<0.2	1.6	<0.2	1.6		
						7.3	0.2	19	26.7	26.7	8.0	8.0	18.1	18.1	94.1	94.1	6.8	6.8	5.4	5.4	3	3	91	91	<0.2	1.6	<0.2	1.6		
						7.3	0.2	21	26.7	26.7	8.0	8.0	18.1	18.1	94.2	94.2	6.8	6.8	5.5	5.5	4	4	92	92	<0.2	1.6	<0.2	1.6		
					Bottom	1.0	0.6	16	26.9	26.9	8.0	8.0	18.7	18.7	90.6	90.6	6.5	6.5	3.7	3.7	3	3	85	85	<0.2	2.5	<0.2	2.4		
						1.0	0.6	17	26.9	26.9	8.0	8.0	18.7	18.7	90.6	90.6	6.5	6.5	3.7	3.7	3	3	85	85	<0.2	2.4	<0.2	2.4		
						4.3	0.4	16	26.6	26.6	8.0	8.0	19.2	19.2	89.3	89.3	6.4	6.4	3.9	3.9	3	3	89	89	<0.2	1.1	<0.2	1.1		
	4.3	0.4	18	26.6	26.6	8.0	8.0	19.2	19.2	89.3	89.3	6.4	6.4	3.9	3.9	3	3	89	89	<0.2	1.0	<0.2	1.0							
	7.5	0.5	14	26.6	26.6	8.0	8.0	20.5	20.5	88.8	88.8	6.4	6.4	3.8	3.8	3	3	92	92	<0.2	1.0	<0.2	1.0							
	7.5	0.5	15	26.6	26.6	8.0	8.0	20.5	20.5	88.8	88.8	6.4	6.4	3.8	3.8	3	3	92	92	<0.2	1.0	<0.2	1.0							
C2	Fine	Moderate	16:31	8.5	Surface	1.0	0.6	16	26.9	26.9	8.0	8.0	18.7	18.7	90.6	90.6	6.5	6.5	3.7	3.7	3	3	85	85	825667	806936	<0.2	2.4	<0.2	2.4
						1.0	0.6	17	26.9	26.9	8.0	8.0	18.7	18.7	90.6	90.6	6.5	6.5	3.7	3.7	3	3	85	85	<0.2	2.4	<0.2	2.4		
						4.3	0.4	16	26.6	26.6	8.0	8.0	19.2	19.2	89.3	89.3	6.4	6.4	3.9	3.9	3	3	89	89	<0.2	1.1	<0.2	1.1		
					Middle	4.3	0.4	18	26.6	26.6	8.0	8.0	19.2	19.2	89.3	89.3	6.4	6.4	3.9	3.9	3	3	89	89	<0.2	1.0	<0.2	1.0		
						7.5	0.5	14	26.6	26.6	8.0	8.0	20.5	20.5	88.8	88.8	6.4	6.4	3.8	3.8	3	3	92	92	<0.2	1.0	<0.2	1.0		
						7.5	0.5	15	26.6	26.6	8.0	8.0	20.5	20.5	88.8	88.8	6.4	6.4	3.8	3.8	3	3	92	92	<0.2	1.0	<0.2	1.0		
					Bottom	1.0	0.1	238	27.5	27.5	8.0	8.0	11.8	11.8	95.9	95.9	7.1	7.1	3.3	3.3	2	2	83	83	<0.2	1.0	<0.2	1.0		
						1.0	0.1	240	27.5	27.5	8.0	8.0	11.8	11.8	95.8	95.8	7.1	7.1	3.3	3.3	2	2	83	83	<0.2	1.1	<0.2	1.1		
						5.4	0.2	268	27.2	27.2	7.9	7.9	14.4	14.4	90.7	90.7	6.6	6.6	3.3	3.3	3	3	87	87	<0.2	1.0	<0.2	1.0		
	5.4	0.2	280	27.2	27.2	7.9	7.9	14.4	14.4	90.7	90.7	6.6	6.6	3.3	3.3	3	3	87	87	<0.2	1.1	<0.2	1.1							
	9.8	0.1	219	27.3	27.3	7.9	7.9	14.8	14.8	90.4	90.4	6.6	6.6	3.4	3.4	3	3	90	90	<0.2	1.0	<0.2	1.0							
	9.8	0.1	225	27.3	27.3	7.9	7.9	14.8	14.8	90.4	90.4	6.6	6.6	3.4	3.4	2	2	90	90	<0.2	1.0	<0.2	1.0							
C3	Fine	Moderate	18:36	10.8	Surface	1.0	0.1	238	27.5	27.5	8.0	8.0	11.8	11.8	95.9	95.9	7.1	7.1	3.3	3.3	2	2	83	83	822127	817781	<0.2	1.0	<0.2	1.0
						1.0	0.1	240	27.5	27.5	8.0	8.0	11.8	11.8	95.8	95.8	7.1	7.1	3.3	3.3	2	2	83	83	<0.2	1.1	<0.2	1.1		
						5.4	0.2	268	27.2	27.2	7.9	7.9	14.4	14.4	90.7	90.7	6.6	6.6	3.3	3.3	3	3	87	87	<0.2	1.0	<0.2	1.0		
					Middle	5.4	0.2	280	27.2	27.2	7.9	7.9	14.4	14.4	90.7	90.7	6.6	6.6	3.3	3.3	3	3	87	87	<0.2	1.1	<0.2	1.1		
						9.8	0.1	219	27.3	27.3	7.9	7.9	14.8	14.8	90.4	90.4	6.6	6.6	3.4	3.4	3	3	90	90	<0.2	1.0	<0.2	1.0		
						9.8	0.1	225	27.3	27.3	7.9	7.9	14.8	14.8	90.4	90.4	6.6	6.6	3.4	3.4	2	2	90	90	<0.2	1.0	<0.2	1.0		
					Bottom	1.0	0.1	24	27.6	27.6	7.8	7.8	15.1	15.1	95.4	95.4	6.9	6.9	6.6	6.6	4	4	86	86	<0.2	2.1	<0.2	2.1		
						1.0	0.1	25	27.5	27.5	7.8	7.8	15.1	15.1	95.3	95.3	6.9	6.9	6.5	6.5	4	4	87	87	<0.2	1.8	<0.2	1.8		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	817963	807119
	4.6	0.1	54	27.4	27.4	7.7	7.7	15.4	15.4	95.1	95.1	6.9	6.9	3.5	3.5	4	4	90	90	<0.2	1.9	<0.2	1.9							
	4.6	0.1	58	27.4	27.4	7.7	7.7	15.5	15.4	95.1	95.1	6.9	6.9	3.7	3.7	3	3	91	91	<0.2	1.9	<0.2	1.9							
	IM1	Fine	Moderate	17:21	5.6	Surface	1.0	0.2	28	26.8	26.8	7.9	7.9	17.1	17.1	93.9	93.9	6.8	6.8	4.4	4.4	2	2	86	86	818159	806170	<0.2	1.6	<0.2
1.0							0.2	27	26.8	26.8	7.9	7.9	17.1	17.1	93.9	93.9	6.8	6.8	4.7	4.7	3	3	86	86	<0.2	1.7	<0.2	1.7		
3.6							0.2	16	26.9	26.9	7.9	7.9	13.9	13.9	94.0	94.0	6.9	6.9	3.1	3.1	3	3	90	90	<0.2	1.6	<0.2	1.6		
Middle						3.6	0.3	15	27.0	27.0	7.9	7.9	13.9	13.9	94.1	94.1	6.9	6.9	3.2	3.2	3	3	90	90	<0.2	1.6	<0.2	1.6		
						6.2	0.2	12	27.2	27.2	7.9	7.9	14.8	14.8	94.7	94.7	6.9	6.9	3.2	3.2	3	3	91	91	<0.2	1.4	<0.2	1.4		
						6.2	0.2	13	27.2	27.2	7.9	7.9	14.8	14.8	94.7	94.7	6.9	6.9	3.2	3.2	3	3	91	91	<0.2	1.6	<0.2	1.6		
Bottom						1.0	0.4	21	26.7	26.7	8.0	8.0	17.3	17.3	93.3	93.4	6.8	6.8	5.3	5.3	3	3	87	87	<0.2	1.6	<0.2	1.6		
						1.0	0.4	22	26.7	26.7	8.0	8.0	17.3	17.3	93.5	93.5	6.8	6.8	5.3	5.3	3	3	88	88	<0.2	1.7	<0.2	1.7		
						3.7	0.5	16	26.8	26.8	8.0	8.0	18.1	18.1	92.8	92.8	6.7	6.7	9.5	9.5	3	3	90	90	<0.2	1.7	<0.2	1.7		
	3.7	0.5	18	26.8	26.8	8.0	8.0	18.1	18.1	92.8	92.8	6.7	6.7	9.5	9.5	3	3	91	91	<0.2	1.6	<0.2	1.6							
	6.4	0.3	16	26.8	26.8	7.9	7.9	22.0	22.0	91.7	91.7	6.5	6.5	7.8	7.8	4	4	92	92	<0.2	1.6	<0.2	1.6							
	6.4	0.3	16	26.8	26.8	7.9	7.9	22.0	22.0	91.7	91.7	6.5	6.5	7.8	7.8	4	4	93	93	<0.2	1.7	<0.2	1.7							
IM2	Fine	Moderate	17:14	7.2	Surface	1.0	0.2	28	26.8	26.8	7.9	7.9	17.1	17.1	93.9	93.9	6.8	6.8	4.4	4.4	2	2	86	86	818159	806170	<0.2	1.6	<0.2	1.6
						1.0	0.2	27	26.8	26.8	7.9	7.9	17.1	17.1	93.9	93.9	6.8	6.8	4.7	4.7	3	3	86	86	<0.2	1.7	<0.2	1.7		
						3.6	0.2	16	26.9	26.9	7.9	7.9	13.9	13.9	94.0	94.0	6.9	6.9	3.1	3.1	3	3	90	90	<0.2	1.6	<0.2	1.6		
					Middle	3.6	0.3	15	27.0	27.0	7.9	7.9	13.9	13.9	94.1	94.1	6.9	6.9	3.2	3.2	3	3	90	90	<0.2	1.6	<0.2	1.6		
						6.2	0.2	12	27.2	27.2	7.9	7.9	14.8	14.8	94.7	94.7	6.9	6.9	3.2	3.2	3	3	91	91	<0.2	1.4	<0.2	1.4		
						6.2	0.2	13	27.2	27.2	7.9	7.9	14.8	14.8	94.7	94.7	6.9	6.9	3.2	3.2	3	3	91	91	<0.2	1.6	<0.2	1.6		
					Bottom	1.0	0.4	21	26.7	26.7	8.0	8.0	17.3	17.3	93.3	93.4	6.8	6.8	5.3	5.3	3	3	87	87	<0.2	1.6	<0.2	1.6		
						1.0	0.4	22	26.7	26.7	8.0	8.0	17.3	17.3	93.5	93.5	6.8	6.8	5.3	5.3	3	3	88	88	<0.2	1.7	<0.2	1.7		
						3.7	0.5	16	26.8	26.8	8.0	8.0	18.1	18.1	92.8	92.8	6.7	6.7	9.5	9.5	3	3	90	90	<0.2	1.7	<0.2	1.7		
	3.7	0.5	18	26.																										

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 01 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	17:33	7.3	Surface	1.0	0.2	303	26.9	26.9	8.0	8.0	13.7	13.7	94.2	94.2	7.0	7.0	4.0	4.0	3	3	86	86	-	-	<0.2	1.8						
						1.0	0.2	300	26.9	8.0	8.0	13.7	13.7	94.2	94.2	7.0	7.0	4.0	4.0	3	3	85	85	-	-	<0.2	1.8							
						3.7	0.4	296	27.0	8.0	8.0	14.4	14.4	93.7	93.7	6.9	6.9	5.0	5.0	3	3	89	89	-	-	<0.2	1.9							
					Middle	3.7	0.4	295	27.0	8.0	8.0	14.4	14.4	93.7	93.7	6.9	6.9	5.0	5.0	4	4	89	89	-	-	<0.2	1.8							
						6.3	0.3	294	26.7	8.0	8.0	15.3	15.3	90.9	90.9	6.7	6.7	3.8	3.8	3	3	93	93	-	-	<0.2	1.8							
						6.3	0.3	296	26.7	8.0	8.0	15.3	15.3	90.9	90.9	6.7	6.7	3.8	3.8	3	3	93	93	-	-	<0.2	1.9							
					Bottom	1.0	0.5	285	26.9	26.9	8.0	8.0	15.5	15.5	92.1	92.1	6.7	6.7	3.8	3.8	3	3	85	85	-	-	<0.2	2.2						
						1.0	0.5	290	26.9	26.9	8.0	8.0	15.5	15.5	92.1	92.1	6.7	6.7	3.8	3.8	2	2	85	85	-	-	<0.2	2.2						
						3.8	0.6	281	26.8	26.8	8.0	8.0	15.7	15.7	91.5	91.5	6.7	6.7	4.1	4.1	2	2	89	89	-	-	<0.2	2.1						
Middle	3.8	0.7	285	26.8	26.8	8.0	8.0	15.7	15.7	91.5	91.5	6.7	6.7	4.1	4.1	3	3	89	89	-	-	<0.2	2.1											
	6.5	0.5	267	26.9	26.9	8.0	8.0	16.6	16.6	88.8	88.8	6.5	6.5	4.8	4.8	2	2	92	92	-	-	<0.2	1.9											
	6.5	0.5	268	26.9	26.9	8.0	8.0	16.6	16.6	89.9	89.9	6.5	6.5	4.9	4.9	3	3	93	93	-	-	<0.2	2.1											
IM10	Fine	Moderate	17:55	7.5	Surface	1.0	0.9	267	27.0	27.0	8.0	8.0	15.8	15.8	91.4	91.5	6.7	6.7	3.8	3.8	<2	<2	85	85	-	-	<0.2	2.1						
						1.0	1.0	259	27.0	27.0	8.0	8.0	15.8	15.8	91.5	91.5	6.7	6.7	3.8	3.8	<2	<2	85	85	-	-	<0.2	2.0						
						4.2	0.6	228	26.8	26.8	8.0	8.0	15.8	15.8	91.8	91.8	6.7	6.7	3.6	3.6	3	3	89	89	-	-	<0.2	2.0						
					Middle	4.2	0.6	250	26.8	26.8	8.0	8.0	15.8	15.8	91.8	91.8	6.7	6.7	3.6	3.6	4	4	89	89	-	-	<0.2	2.1						
						7.3	0.2	276	26.9	26.9	8.0	8.0	16.3	16.3	90.8	90.9	6.6	6.6	3.8	3.8	3	3	93	93	-	-	<0.2	2.4						
						7.3	0.2	279	26.9	26.9	8.0	8.0	16.3	16.3	90.9	90.9	6.6	6.6	3.8	3.8	3	3	93	93	-	-	<0.2	2.4						
					Bottom	1.0	0.6	256	26.7	26.7	8.0	8.0	17.3	17.3	90.5	90.5	6.6	6.6	4.1	4.1	4	4	85	85	-	-	<0.2	2.4						
						1.0	0.6	251	26.7	26.7	8.0	8.0	17.3	17.3	90.5	90.5	6.6	6.6	4.1	4.1	4	4	85	85	-	-	<0.2	2.2						
						3.9	0.7	261	26.7	26.7	8.0	8.0	17.3	17.3	90.1	90.1	6.5	6.5	4.0	4.0	5	5	89	89	-	-	<0.2	2.3						
Middle	3.9	0.7	266	26.7	26.7	8.0	8.0	17.3	17.3	90.1	90.1	6.5	6.5	4.0	4.0	5	5	89	89	-	-	<0.2	2.2											
	6.8	0.3	246	26.9	26.9	8.0	8.0	17.5	17.5	89.5	89.6	6.5	6.5	4.4	4.4	6	6	93	93	-	-	<0.2	2.2											
	6.8	0.4	244	26.9	26.9	8.0	8.0	17.5	17.5	89.6	89.6	6.5	6.5	4.5	4.5	5	5	93	93	-	-	<0.2	2.3											
SR1A	Fine	Moderate	18:23	5.6	Surface	1.0	-	-	26.5	26.5	8.0	8.0	20.1	20.1	88.3	88.3	6.3	6.3	8.4	8.3	2	2	-	-	-	-	-	-						
						1.0	-	-	26.5	26.5	8.0	8.0	20.1	20.1	88.3	88.3	6.3	6.3	8.3	8.3	2	2	-	-	-	-	-	-						
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						4.6	-	-	26.8	26.8	8.0	8.0	18.6	18.6	89.6	89.6	6.5	6.5	4.4	4.4	3	3	-	-	-	-	-	-	-	-				
						4.6	-	-	26.8	26.8	8.0	8.0	18.6	18.6	89.6	89.6	6.5	6.5	4.5	4.5	3	3	-	-	-	-	-	-	-	-				
					Bottom	1.0	0.4	269	26.8	26.8	8.0	8.0	18.3	18.3	88.8	88.8	6.4	6.4	4.0	4.0	<2	<2	85	85	-	-	-	-	<0.2	2.2				
						1.0	0.4	254	26.8	26.8	8.0	8.0	18.3	18.3	88.8	88.8	6.4	6.4	4.0	4.0	<2	<2	85	85	-	-	-	-	<0.2	2.3				
						4.0	0.2	243	26.5	26.5	8.0	8.0	19.8	19.8	87.9	87.9	6.3	6.3	5.6	5.6	2	2	89	89	-	-	<0.2	2.9						
Middle	4.0	0.2	253	26.5	26.5	8.0	8.0	19.8	19.8	87.9	87.9	6.3	6.3	5.5	5.5	4	4	89	89	-	-	<0.2	2.8											
	1.0	0.1	357	27.0	27.0	8.1	8.1	14.3	14.3	89.8	89.9	6.7	6.7	4.9	4.9	4	4	-	-	-	-	-	-	-	-									
	1.0	0.1	328	27.0	27.0	8.1	8.1	14.3	14.3	89.9	89.9	6.7	6.7	4.9	4.9	3	3	-	-	-	-	-	-	-	-									
Middle	4.4	0.2	49	27.0	27.0	8.0	8.0	19.2	19.2	90.5	90.5	6.5	6.5	4.4	4.4	4	4	-	-	-	-	-	-	-	-									
	4.4	0.2	48	27.0	27.0	8.0	8.0	19.2	19.2	90.5	90.5	6.5	6.5	4.4	4.4	4	4	-	-	-	-	-	-	-	-									
	7.8	0.1	55	26.7	26.7	8.0	8.0	19.9	19.9	90.7	90.8	6.5	6.5	5.0	5.0	4	4	-	-	-	-	-	-	-										
Bottom	7.8	0.1	59	26.7	26.7	8.0	8.0	19.9	19.9	90.8	90.8	6.5	6.5	5.0	5.0	4	4	-	-	-	-	-	-	-	-									
	1.0	0.2	214	26.6	26.6	7.9	7.9	14.7	14.7	92.9	92.9	6.9	6.9	6.6	6.6	4	4	-	-	-	-	-	-	-										
	1.0	0.2	220	26.7	26.7	7.9	7.9	14.7	14.7	92.9	92.9	6.9	6.9	6.8	6.8	4	4	-	-	-	-	-	-	-										
Middle	4.4	0.1	209	26.8	26.8	8.0	8.0	17.2	17.2	93.0	93.1	6.8	6.8	3.6	3.6	5	5	-	-	-	-	-	-	-										
	4.4	0.1	215	26.7	26.7	8.0	8.0	17.2	17.2	93.1	93.1	6.8	6.8	3.5	3.5	5	5	-	-	-	-	-	-	-										
	7.8	0.1	201	26.3	26.3	7.7	7.7	26.8	26.8	88.0	88.1	6.1	6.1	8.4	8.4	16	16	-	-	-	-	-	-	-										
Bottom	7.8	0.1	207	26.3	26.3	7.7	7.7	26.8	26.8	88.1	88.1	6.1	6.1	8.4	8.4	16	16	-	-	-	-	-	-	-										
	1.0	0.3	272	26.5	26.5	7.9	7.9	18.0	18.0	91.2	91.4	6.6	6.6	4.2	4.2	3	3	-	-	-	-	-	-	-										
	1.0	0.4	278	26.5	26.5	7.9	7.9	18.0	18.0	91.5	91.5	6.7	6.7	4.4	4.4	4	4	-	-	-	-	-	-	-										
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
	3.8	0.3	271	26.4	26.4	7.8	7.8	19.8	19.8	89.7	89.9	6.5	6.5	4.8	4.8	5	5	-	-	-	-	-	-	-										
	3.8	0.3	277	26.4	26.4	7.8	7.8	19.8	19.8	90.0	89.9	6.5	6.5	5.2	5.2	5	5	-	-	-	-	-	-	-										
Bottom	1.0	0.0	260	26.3	26.3	7.8	7.7	19.5	19.5	87.5	87.6	6.3	6.3	3.2	3.2	2	2	-	-	-	-	-	-	-										
	1.0	0.0	265	26.3	26.3	7.7	7.7	19.5	19.5	87.6	87.6	6.3	6.3	3.4	3.4	2	2	-	-	-	-	-	-	-										
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
	3.3	0.0	227	26.3	26.3	7.7	7.7	20.5	20.5	88																								

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 04 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA			
C1	Cloudy	Moderate	12:46	8.0	Surface	1.0	0.4	245	28.5	28.5	8.1	8.1	15.4	15.4	96.8	96.9	6.9	6.9	5.5	5	88	92	815611	804257	<0.2	1.6	<0.2	1.4							
						1.0	0.4	257	28.5	8.1	8.1	15.4	15.4	96.9	96.9	6.9	6.9	5.2	4	89	92	<0.2	1.6												
						4.0	0.3	234	28.2	8.2	8.2	15.5	15.5	96.7	96.6	6.9	6.9	3.5	4	93	92	<0.2	1.3												
					Middle	4.0	0.3	247	28.1	8.2	8.2	15.5	15.5	96.5	96.6	6.9	6.9	3.5	5	94	92	<0.2	1.4												
						7.0	0.2	251	27.9	8.2	8.2	19.2	19.2	96.5	96.6	6.8	6.8	3.4	6	95	92	<0.2	1.4												
						7.0	0.2	261	27.9	8.2	8.2	19.2	19.2	96.6	96.6	6.8	6.8	3.6	6	95	92	<0.2	1.2												
					C2	Fine	Moderate	11:59	11.4	Surface	1.0	0.6	171	29.6	29.6	8.0	8.0	12.3	12.3	95.6	95.6	6.8	6.8	3.9	18	84			88	825677	806931	<0.2	1.2	<0.2	1.4
											1.0	0.6	173	29.6	8.0	8.0	12.3	12.3	95.6	95.6	6.8	6.8	3.9	17	84	88			<0.2	1.4					
											5.7	0.4	146	29.0	8.1	8.1	11.5	11.5	95.7	95.6	6.9	6.9	3.5	4	88	88			<0.2	1.8					
Middle	5.7	0.4	156	29.0						8.1	8.1	11.5	11.5	95.5	95.6	6.9	6.9	3.6	5	87	87	<0.2	1.8												
	10.4	0.3	131	27.3						8.0	8.0	17.6	17.6	87.0	87.0	6.3	6.3	12.5	3	92	92	<0.2	1.3												
	10.4	0.3	142	27.3						8.0	8.0	17.6	17.6	87.0	87.0	6.3	6.3	12.5	5	92	92	<0.2	1.1												
C3	Fine	Moderate	13:38	10.2						Surface	1.0	0.3	95	28.0	28.0	8.0	8.0	17.8	17.8	92.9	93.0	6.6	6.6	5.4	7	84	88	822105	817800	<0.2	1.2	<0.2	1.2		
											1.0	0.4	100	28.0	8.0	8.0	17.8	17.8	93.0	93.0	6.6	6.6	5.4	8	85	88	<0.2	1.0							
											5.1	0.3	93	27.2	8.0	8.0	18.8	18.8	91.4	91.4	6.5	6.5	6.5	8	88	88	<0.2	1.5							
					Middle	5.1	0.3	98	27.2	8.1	8.1	18.8	18.8	91.3	91.4	6.5	6.5	6.5	8	88	88	<0.2	1.4												
						9.2	0.2	88	27.6	8.1	8.1	19.1	19.1	91.5	91.6	6.5	6.5	6.6	8	92	92	<0.2	1.0												
						9.2	0.2	91	27.6	8.1	8.1	19.1	19.1	91.6	91.6	6.5	6.5	6.8	7	92	92	<0.2	0.9												
					IM1	Fine	Moderate	12:32	5.5	Surface	1.0	0.1	229	28.3	28.3	8.1	8.1	14.1	14.1	98.4	98.5	7.1	7.1	3.6	4	89	91	817959	807120	<0.2	1.5			<0.2	1.5
											1.0	0.1	247	28.3	8.1	8.1	14.1	14.1	98.5	98.5	7.1	7.1	3.6	5	90	90	<0.2	1.3							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Middle	4.5	0.2	183	28.3						8.1	8.1	14.1	14.1	99.2	99.3	7.2	7.2	3.5	5	93	93	<0.2	1.7												
	4.5	0.2	195	28.2						8.1	8.1	14.1	14.1	99.3	99.3	7.2	7.2	3.3	5	93	93	<0.2	1.6												
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
IM2	Fine	Moderate	12:25	7.6						Surface	1.0	0.3	198	27.3	27.4	8.1	8.1	19.4	19.4	90.5	90.5	6.4	6.4	6.3	8	88	92	818159	806163	<0.2	1.7	<0.2	1.6		
											1.0	0.3	216	27.4	8.1	8.1	19.4	19.4	90.5	90.5	6.4	6.4	6.2	8	89	89	<0.2	1.7							
											3.8	0.3	170	27.3	8.1	8.1	18.8	18.8	90.9	90.9	6.5	6.5	6.5	9	92	92	<0.2	1.7							
					Middle	3.8	0.3	173	27.3	8.1	8.1	18.8	18.8	90.9	90.9	6.5	6.5	6.9	8	93	92	<0.2	1.7												
						6.6	0.2	160	27.2	8.1	8.1	19.6	19.6	91.1	91.2	6.5	6.5	8.5	9	94	94	<0.2	1.4												
						6.6	0.2	170	27.2	8.1	8.1	19.6	19.6	91.2	91.2	6.5	6.5	8.5	9	94	94	<0.2	1.5												
					IM3	Fine	Moderate	12:20	8.2	Surface	1.0	0.3	215	27.7	27.7	8.1	8.1	18.5	18.5	91.7	91.8	6.5	6.5	7.7	7	89	92	818797	805570	<0.2	1.7			<0.2	1.6
											1.0	0.3	229	27.7	8.1	8.1	18.5	18.5	91.8	91.8	6.5	6.5	7.6	7	89	89	<0.2	1.7							
											4.1	0.5	171	27.8	8.1	8.1	18.0	18.0	92.6	92.8	6.6	6.6	5.4	6	92	92	<0.2	1.3							
Middle	4.1	0.5	178	27.8						8.1	8.1	18.0	18.0	92.9	92.9	6.6	6.6	5.5	7	93	93	<0.2	1.5												
	7.2	0.4	172	27.2						8.1	8.1	20.6	20.6	92.9	92.9	6.6	6.6	7.6	7	95	95	<0.2	1.6												
	7.2	0.4	185	27.2						8.1	8.1	20.6	20.6	92.9	92.9	6.6	6.6	7.6	7	95	95	<0.2	1.5												
IM4	Fine	Moderate	12:11	8.3						Surface	1.0	0.5	202	27.4	27.4	8.1	8.1	19.3	19.3	89.5	89.6	6.4	6.4	5.4	8	89	92	819727	804607	<0.2	1.6	<0.2	1.5		
											1.0	0.6	206	27.4	8.1	8.1	19.3	19.3	89.7	89.7	6.4	6.4	5.3	7	89	89	<0.2	1.6							
											4.2	0.5	203	27.6	8.1	8.1	18.2	18.3	90.6	90.5	6.5	6.5	5.6	9	92	92	<0.2	1.6							
					Middle	4.2	0.5	208	27.5	8.1	8.1	18.3	18.3	90.4	90.5	6.5	6.5	5.9	8	93	93	<0.2	1.6												
						7.3	0.4	190	27.3	8.1	8.1	22.0	22.0	89.9	90.0	6.3	6.3	7.1	10	94	94	<0.2	1.3												
						7.3	0.5	204	27.3	8.1	8.1	22.0	22.0	90.0	90.0	6.3	6.3	7.2	11	94	94	<0.2	1.5												
					IM5	Fine	Moderate	12:05	8.0	Surface	1.0	0.7	247	27.8	27.8	8.0	8.0	16.5	16.5	90.4	90.5	6.5	6.5	5.2	5	88	92	820734	804850	<0.2	1.7			<0.2	1.7
											1.0	0.7	259	27.8	8.0	8.0	16.5	16.5	90.5	90.5	6.5	6.5	5.4	6	89	89	<0.2	1.5							
											4.0	0.5	205	27.8	8.0	8.0	16.7	16.7	90.7	90.7	6.5	6.5	5.6	8	92	92	<0.2	1.9							
Middle	4.0	0.5	213	27.7						8.0	8.0	16.7	16.7	90.7	90.7	6.5	6.5	5.9	8	93	93	<0.2	1.8												
	7.0	0.3	190	27.2						8.0	8.0	20.7	20.7	90.0	90.0	6.4	6.4	7.2	8	94	94	<0.2	1.6												
	7.0	0.3	195	27.2						8.0	8.0	20.7	20.7	90.0	90.0	6.4	6.4	7.2	9	95	95	<0.2	1.8												
IM6	Cloudy	Moderate	11:59	7.7						Surface	1.0	0.4	247	27.5	27.5	8.0	8.0	17.4	17.4	89.3	89.3	6.4	6.4	4.9	9	89	92	821062	805841	<0.2	2.0	<0.2	1.7		
											1.0	0.4	263	27.5	8.0	8.0	17.4	17.4	89.2	89.2	6.4	6.4	5.0	8	89	89	<0.2	1.8							
											3.9	0.5	249	27.4	8.0	8.0	17.4	17.4	88.4	88.4	6.3	6.3	5.5	10	92	92	<0.2	1.5							
					Middle	3.9	0.5	255	27.4	8.0	8.0	17.4	17.4	88.3	88.3	6.3	6.3	5.7	10	93	93	<0.2	1.3												
						6.7	0.5	259	27.3	8.0	8.0	19.7	19.7	88.2	88.3	6.3	6.3	7.5	10	95	95	<0.2	1.8												
						6.7	0.6	281	27.4	8.0	8.0	19.7	19.7	88.3	88.3	6.3	6.3	7.9	11	95	95	<0.2	1.6												
					IM7	Cloudy	Moderate	11:53	8.4	Surface	1.0	0.3	252	27.6	27.6	8.0	8.0	16.2	16.2	87.8	87.8	6.3	6.3	5.3	7	88	92	821340	806832	<0.2	1.6			<0.2	1.9
											1.0	0.3	258	27.6	8.0	8.0	16.2	16.2	87.8	87.8	6.3	6.3	5.3	8	88	88	<0.2	1.5							
											4.2	0.1	233	27.7	8.0	8.0	16.1	16.1	88.2	88.3	6.4	6.4	4.9	8	93	93	<0.2	1.9							
Middle	4.2	0.1	244	27.7						8.0	8.0	16.2	16.1	88.3	88.3	6.4	6.4	5.0	9	93	93	<0.2	2.0												
	7.4	0.1	120	27.6						8.0	8.0	17.6	17.6	88.5	88.5	6.3	6.3	5.6	8	95	95	<0.2	2.1												
	7.4	0.1	126	27.6						8.0	8.0	17.6	17.6	88.5	88.																				

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on **04 June 19** during **Mid-Ebb Tide**

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	12:27	7.5	Surface	1.0	0.3	84	28.3	28.3	8.0	8.0	14.5	14.5	92.5	92.5	6.7	6.7	3.9	4	85	88	88	88	822104	808809	<0.2	1.9	<0.2	2.0						
						1.0	0.3	90	28.3	8.0	8.0	14.5	14.5	92.5	92.5	6.7	6.7	3.9	5	84	88	88	88	822104	808809	<0.2	2.0	<0.2	2.1							
						3.8	0.3	110	28.2	8.0	8.0	14.6	14.6	89.8	89.8	6.5	6.5	4.2	4	88	88	88	88	822104	808809	<0.2	2.0	<0.2	2.1							
					Middle	3.8	0.3	117	28.2	8.0	8.0	14.6	14.6	89.8	89.8	6.5	6.5	4.1	5	88	88	88	88	822104	808809	<0.2	2.1	<0.2	2.2							
						6.5	0.2	110	27.5	8.0	8.0	17.6	17.6	87.4	87.4	6.3	6.3	8.2	9	92	92	92	92	822104	808809	<0.2	2.2	<0.2	2.2							
						6.5	0.2	116	27.5	8.0	8.0	17.6	17.6	87.4	87.4	6.3	6.3	8.3	9	92	92	92	92	822104	808809	<0.2	2.2	<0.2	2.2							
					IM10	Fine	Moderate	12:35	7.3	Surface	1.0	0.8	105	28.4	28.4	8.0	8.0	14.3	14.3	94.0	94.0	6.8	6.8	3.4	2	85	89	89	89	822403	809811	<0.2	2.0	<0.2	2.0	
											1.0	0.9	110	28.4	8.0	8.0	14.3	14.3	94.0	94.0	6.8	6.8	3.5	2	84	89	89	89	822403	809811	<0.2	2.0	<0.2	2.1		
											3.7	0.9	109	28.4	8.0	8.0	14.3	14.3	93.6	93.7	6.7	6.7	3.5	5	89	89	89	89	822403	809811	<0.2	2.1	<0.2	2.1		
Middle	3.7	0.9	109	28.4						8.0	8.0	14.3	14.3	93.7	93.7	6.7	6.7	3.5	4	89	89	89	89	822403	809811	<0.2	2.1	<0.2	2.1							
	6.3	0.5	108	27.8						8.1	8.1	15.4	15.4	91.9	91.9	6.6	6.6	4.8	4	92	92	92	92	822403	809811	<0.2	2.1	<0.2	2.1							
	6.3	0.5	115	27.8						8.1	8.1	15.4	15.4	91.9	91.9	6.6	6.6	4.8	5	92	92	92	92	822403	809811	<0.2	2.0	<0.2	2.0							
IM11	Fine	Moderate	12:43	8.9						Surface	1.0	1.1	117	29.0	29.0	8.0	8.0	13.5	13.5	97.8	97.8	7.0	7.0	3.1	5	85	89	89	89	822056	811461	<0.2	2.3	<0.2	2.3	
											1.0	1.2	117	29.0	8.0	8.0	13.5	13.5	97.8	97.8	7.0	7.0	3.1	4	84	88	88	88	822056	811461	<0.2	2.3	<0.2	2.3		
											4.5	0.8	111	29.0	8.1	8.1	13.6	13.6	96.9	96.9	6.9	6.9	3.3	3	88	89	89	89	822056	811461	<0.2	2.3	<0.2	2.3		
					Middle	4.5	0.8	116	29.0	8.1	8.1	13.6	13.6	96.8	96.9	6.9	6.9	3.3	3	88	89	89	89	822056	811461	<0.2	2.3	<0.2	2.3							
						7.9	0.6	115	27.3	8.1	8.1	16.7	16.7	90.9	90.9	6.6	6.6	6.7	3	92	92	92	92	822056	811461	<0.2	2.4	<0.2	2.4							
						7.9	0.6	124	27.3	8.1	8.1	16.7	16.7	90.9	90.9	6.6	6.6	6.7	3	93	93	93	93	822056	811461	<0.2	2.2	<0.2	2.2							
					IM12	Fine	Moderate	12:50	8.7	Surface	1.0	0.9	119	28.4	28.4	8.0	8.0	13.3	13.3	97.4	97.4	7.0	7.0	3.4	2	84	88	88	88	821448	812054	<0.2	2.1	<0.2	2.0	
											1.0	1.0	120	28.4	8.0	8.0	13.3	13.3	97.4	97.4	7.0	7.0	3.3	3	84	87	87	87	821448	812054	<0.2	2.0	<0.2	2.0		
											4.4	0.5	112	28.2	8.1	8.1	13.3	13.3	97.5	97.5	7.1	7.1	5.5	4	87	88	88	88	821448	812054	<0.2	2.0	<0.2	2.0		
Middle	4.4	0.5	121	28.2						8.1	8.1	13.3	13.3	97.7	97.7	7.1	7.1	5.9	3	88	89	89	89	821448	812054	<0.2	2.1	<0.2	2.1							
	7.7	0.4	79	27.5						8.1	8.1	15.4	15.4	93.8	93.9	6.8	6.8	6.3	5	91	91	91	91	821448	812054	<0.2	1.8	<0.2	1.8							
	7.7	0.4	84	27.5						8.1	8.1	15.4	15.4	93.9	93.9	6.8	6.8	6.4	6	92	92	92	92	821448	812054	<0.2	2.0	<0.2	2.0							
SR1A	Fine	Moderate	13:07	5.6						Surface	1.0	-	-	28.4	28.4	8.0	8.0	14.4	14.4	93.4	93.4	6.7	6.7	3.8	4	-	-	-	-	819983	812657	-	-	-	-	
											1.0	-	-	28.4	28.4	8.0	8.0	14.4	14.4	93.4	93.4	6.7	6.7	3.8	5	-	-	-	-	819983	812657	-	-	-	-	
											2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						4.6	-	-	27.9	27.9	8.0	8.0	15.7	15.7	91.3	91.3	6.6	6.6	4.7	4	-	-	-	-	-	-	-	-	-	-	-	-				
						4.6	-	-	27.9	27.9	8.0	8.0	15.7	15.7	91.3	91.3	6.6	6.6	4.8	5	-	-	-	-	-	-	-	-	-	-	-	-				
					SR2	Fine	Moderate	13:18	4.8	Surface	1.0	0.6	103	28.1	28.1	8.0	8.0	14.4	14.4	96.4	96.4	7.0	7.0	4.1	6	84	85	85	85	821452	814162	<0.2	2.3	<0.2	2.2	
											1.0	0.6	108	28.1	28.1	8.0	8.0	14.4	14.4	96.4	96.4	7.0	7.0	4.1	7	85	85	85	85	821452	814162	<0.2	2.2	<0.2	2.2	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	3.8	0.3	121	27.6						27.6	8.0	8.0	15.6	15.6	92.2	92.2	6.7	6.7	7.6	8	88	88	88	88	821452	814162	<0.2	2.3	<0.2	2.3						
	3.8	0.3	124	27.6						27.6	8.0	8.0	15.6	15.6	92.1	92.2	6.7	6.7	8.0	9	88	88	88	88	821452	814162	<0.2	2.2	<0.2	2.2						
SR3	Fine	Moderate	12:14	9.0						Surface	1.0	0.2	203	28.7	28.7	8.0	8.0	13.9	13.9	90.4	90.5	6.5	6.5	3.7	3	-	-	-	-	822151	807562	-	-	-	-	
											1.0	0.2	210	28.7	28.7	8.0	8.0	13.9	13.9	90.6	90.6	6.5	6.5	3.6	4	-	-	-	-	822151	807562	-	-	-	-	
											4.5	0.1	169	28.0	28.0	8.0	8.0	15.2	15.2	90.2	90.2	6.5	6.5	4.3	5	-	-	-	-	822151	807562	-	-	-	-	
					Middle	4.5	0.1	170	28.0	28.0	8.0	8.0	15.2	15.2	90.1	90.2	6.5	6.5	4.3	4	-	-	-	-	822151	807562	-	-	-	-						
						8.0	0.1	160	27.7	27.7	8.1	8.1	17.1	17.1	87.4	87.5	6.3	6.3	7.7	6	-	-	-	-	822151	807562	-	-	-	-						
						8.0	0.1	171	27.7	27.7	8.1	8.1	17.1	17.1	87.6	87.6	6.3	6.3	7.7	7	-	-	-	-	822151	807562	-	-	-	-						
					SR4A	Cloudy	Calm	13:05	9.6	Surface	1.0	0.0	234	28.2	28.2	8.1	8.1	15.4	15.4	96.1	96.2	6.9	6.9	4.5	6	-	-	-	-	817207	807828	-	-	-	-	
											1.0	0.0	252	28.2	28.2	8.1	8.1	15.4	15.4	96.2	96.2	6.9	6.9	4.5	5	-	-	-	-	817207	807828	-	-	-	-	
											4.8	0.0	19	28.2	28.2	8.1	8.1	15.5	15.5	96.3	96.4	6.9	6.9	4.2	6	-	-	-	-	817207	807828	-	-	-	-	
Middle	4.8	0.0	20	28.2						28.2	8.1	8.1	15.5	15.5	96.4	96.4	6.9	6.9	4.3	5	-	-	-	-	817207	807828	-	-	-	-						
	8.6	0.2	148	28.0						28.0	8.2	8.2	17.0	17.0	97.5	97.7	6.9	6.9	5.2	5	-	-	-	-	817207	807828	-	-	-	-						
	8.6	0.2	149	28.0						28.0	8.2	8.2	17.0	17.0	97.9	97.7	7.0	7.0	4.9	6	-	-	-	-	817207	807828	-	-	-	-						
SR5A	Cloudy	Calm	13:20	4.4						Surface	1.0	0.1	340	28.2	28.2	8.1	8.1	15.5	15.5	96.5</																

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on **04 June 19** during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	06:33	8.6	Surface	1.0	0.3	69	27.6	27.6	8.0	8.0	16.6	16.6	92.9	92.9	6.7	6.7	5.0	6	89	93	815633	804223	<0.2	2.3	2.1	2.1							
						1.0	0.4	73	27.5	27.2	8.0	8.0	17.2	17.2	92.3	92.3	6.7	6.7	5.9	7	93	93	<0.2	2.1	2.1	2.1									
						4.3	0.4	66	27.1	27.0	8.0	8.0	17.3	17.3	92.3	92.3	6.7	6.7	5.9	7	93	93	<0.2	2.1	2.1	2.1									
					Middle	7.6	0.2	28	27.0	27.0	8.0	8.0	19.3	19.3	92.3	92.3	6.6	6.6	5.6	7	95	95	7	7	93	93	<0.2	2.0	2.0	2.0					
						7.6	0.2	31	27.0	27.0	8.0	8.0	19.3	19.3	92.5	92.5	6.6	6.6	5.6	8	96	96	8	8	96	96	<0.2	2.1	2.1	2.1					
						1.0	0.6	42	28.5	28.5	7.9	7.9	13.0	13.0	91.9	91.9	6.6	6.6	4.4	4	87	87	4	4	87	87	<0.2	2.6	2.6	2.6					
					C2	Cloudy	Moderate	07:38	11.3	Surface	1.0	0.7	44	28.5	28.5	7.9	7.9	13.0	13.0	91.9	91.9	6.6	6.6	4.4	5	87	91	825702	806955	<0.2	2.6	2.3	2.3		
											5.7	0.3	50	28.3	28.3	8.0	8.0	13.2	13.2	92.8	92.8	6.7	6.7	4.2	7	91	91	7	7	91	91	<0.2	2.1	2.1	2.1
											5.7	0.3	51	28.3	27.9	8.0	8.0	13.2	13.2	92.8	92.8	6.7	6.7	4.2	8	91	91	8	8	91	91	<0.2	2.2	2.2	2.2
Middle	10.3	0.3	33	27.9						27.9	8.0	8.0	16.5	16.5	90.3	90.3	6.5	6.5	8.7	10	96	96	10	10	96	96	<0.2	2.2	2.2	2.2					
	10.3	0.3	32	27.9						27.9	8.0	8.0	16.5	16.5	90.3	90.3	6.5	6.5	8.6	9	95	95	9	9	95	95	<0.2	2.2	2.2	2.2					
	1.0	0.5	229	27.1						27.1	8.0	8.0	23.5	23.5	91.5	91.5	6.4	6.4	2.4	3	86	86	3	3	86	86	<0.2	1.3	1.3	1.3					
C3	Rainy	Moderate	05:42	10.4						Surface	1.0	0.5	244	26.9	26.9	8.0	8.0	23.4	23.4	90.4	90.4	6.3	6.3	4.4	4	90	90	822108	817781	<0.2	1.3	1.3	1.3		
											5.2	0.5	257	26.9	26.9	8.0	8.0	23.4	23.4	90.4	90.4	6.3	6.3	4.6	4	90	90	4	4	90	90	<0.2	1.3	1.3	1.3
											9.4	0.2	262	26.7	26.7	8.0	8.0	25.7	25.7	87.8	87.8	6.1	6.1	3.8	6	94	94	6	6	94	94	<0.2	1.4	1.4	1.4
					Middle	9.4	0.2	266	26.7	26.7	8.0	8.0	25.7	25.7	88.1	88.0	6.1	6.1	3.8	5	94	94	5	5	94	94	<0.2	1.4	1.4	1.4					
						1.0	0.2	63	28.4	28.5	8.1	8.1	16.3	16.3	94.9	95.1	6.7	6.7	4.6	7	88	88	7	7	88	88	<0.2	2.2	2.2	2.2					
						1.0	0.2	65	28.5	28.5	8.1	8.1	16.3	16.3	95.3	95.3	6.8	6.8	4.4	7	89	89	7	7	89	89	<0.2	2.0	2.0	2.0					
					IM1	Rainy	Moderate	06:51	5.2	Surface	4.2	0.2	68	28.6	28.6	8.1	8.1	14.6	14.6	96.0	96.0	6.9	6.9	3.6	5	94	91	817937	807120	<0.2	2.1	2.1	2.1		
											4.2	0.2	73	28.6	28.6	8.1	8.1	14.6	14.6	96.0	96.0	6.9	6.9	3.6	4	93	93	4	4	93	93	<0.2	2.3	2.3	2.3
											1.0	0.2	52	27.4	27.4	8.0	8.0	16.3	16.3	92.1	92.1	6.7	6.7	5.0	5	89	92	818169	806148	<0.2	2.1	2.0	2.0		
Middle	4.0	0.2	11	27.5						27.5	8.0	8.0	17.5	17.5	92.0	92.0	6.6	6.6	4.7	5	92	92	5	5	92	92	<0.2	2.1	2.1	2.1					
	4.0	0.2	12	27.5						27.5	8.0	8.0	17.5	17.5	92.0	92.0	6.6	6.6	4.7	6	93	93	6	6	93	93	<0.2	1.9	1.9	1.9					
	7.0	0.2	13	27.5						27.5	8.0	8.0	19.3	19.3	92.2	92.2	6.6	6.6	4.4	5	95	95	5	5	95	95	<0.2	2.0	2.0	2.0					
IM2	Rainy	Moderate	06:58	8.0						Surface	7.0	0.2	13	27.5	27.5	8.0	8.0	19.3	19.3	92.3	92.3	6.6	6.6	4.4	6	95	92	818169	806148	<0.2	2.1	2.0	2.0		
											1.0	0.2	58	27.6	27.6	8.0	8.0	15.7	15.7	93.5	93.5	6.8	6.8	4.0	5	90	92	818778	805611	<0.2	2.2	2.1	2.1		
											1.0	0.2	62	27.6	27.6	8.0	8.0	16.4	16.4	93.4	93.0	6.8	6.7	4.0	5	90	92	5	5	92	92	<0.2	2.2	2.1	2.1
					Middle	4.2	0.2	50	27.6	27.6	8.0	8.0	16.4	16.4	93.1	93.0	6.7	6.7	4.1	5	92	92	4	4	92	92	<0.2	2.2	2.1	2.1					
						4.2	0.2	52	27.6	27.6	8.0	8.0	16.4	16.4	92.9	92.9	6.7	6.7	4.4	5	93	93	5	5	93	93	<0.2	2.1	2.1	2.1					
						7.3	0.2	55	27.5	27.5	8.0	8.0	18.2	18.2	92.3	92.3	6.6	6.6	6.1	6	94	94	6	6	94	94	<0.2	2.1	2.1	2.1					
					IM3	Rainy	Moderate	07:04	8.3	Surface	7.3	0.2	57	27.5	27.5	8.0	8.0	18.2	18.2	92.3	92.3	6.6	6.6	6.1	5	94	92	818778	805611	<0.2	2.1	2.0	2.0		
											1.0	0.3	57	28.0	28.0	8.0	8.0	14.8	14.8	94.9	94.9	6.8	6.8	3.2	3	89	89	3	3	89	89	<0.2	2.0	1.9	1.9
											1.0	0.3	53	28.0	28.0	8.0	8.0	14.8	14.8	94.9	94.9	6.8	6.8	3.2	3	89	89	3	3	89	89	<0.2	2.0	1.9	1.9
Middle	4.1	0.3	56	27.8						27.8	8.0	8.0	15.3	15.4	93.6	93.4	6.8	6.8	3.7	4	94	94	4	4	94	94	<0.2	2.0	2.0	2.0					
	4.1	0.4	60	27.7						27.7	8.0	8.0	15.4	15.4	93.2	93.2	6.7	6.7	3.9	4	94	94	4	4	94	94	<0.2	2.0	2.0	2.0					
	7.1	0.4	54	27.5						27.6	8.0	8.0	18.5	18.5	92.1	92.1	6.6	6.6	4.3	6	95	95	6	6	95	95	<0.2	1.9	1.9	1.9					
IM4	Rainy	Moderate	07:12	8.1						Surface	7.1	0.4	63	27.7	27.6	8.0	8.0	18.5	18.5	92.1	92.1	6.5	6.5	4.0	6	95	92	819734	804630	<0.2	2.0	2.0	2.0		
											1.0	0.4	43	27.8	27.8	8.0	8.0	15.7	15.7	91.7	91.8	6.6	6.6	4.0	5	89	89	5	5	89	89	<0.2	1.9	1.9	1.9
											1.0	0.5	42	27.8	27.8	8.0	8.0	15.7	15.7	91.8	91.8	6.6	6.6	3.9	4	90	90	4	4	90	90	<0.2	1.9	1.9	1.9
					Middle	3.9	0.4	53	27.8	27.8	8.0	8.0	15.5	15.5	91.8	91.7	6.6	6.6	4.3	5	92	92	5	5	92	92	<0.2	2.0	2.0	2.0					
						3.9	0.4	52	27.7	27.7	8.0	8.0	15.5	15.5	91.5	91.5	6.6	6.6	4.7	4	93	93	4	4	93	93	<0.2	1.9	1.9	1.9					
						6.8	0.3	55	27.4	27.4	8.0	8.0	19.5	19.5	91.4	91.5	6.5	6.5	6.0	6	94	94	6	6	94	94	<0.2	2.1	2.1	2.1					
					IM5	Rainy	Moderate	07:19	7.8	Surface	6.8	0.3	57	27.4	27.4	8.0	8.0	19.5	19.5	91.6	91.5	6.5	6.5	5.5	7	94	92	820719	804855	<0.2	2.0	2.0	2.0		
											1.0	0.4	38	27.9	27.9	8.0	8.0	15.6	15.6	90.2	90.3	6.5	6.5	4.0	5	89	89	5	5	89	89	<0.2	2.0	2.0	2.0
											1.0	0.4	39	27.9	27.9	8.0	8.0	15.6	15.6	90.3	90.3	6.5	6.5	4.1	5	90	90	5	5	90	90	<0.2	2.0	2.0	2.0
Middle	4.1	0.3	46	27.9						27.9	8.0	8.0	15.8	15.8	90.4	90.4	6.5	6.5	4.2	6	93	93	6	6	93	93	<0.2	1.9	1.9	1.9					
	4.1	0.3	48	27.9						27.9	8.0	8.0	15.8	15.8	90.4	90.4	6.5	6.5	4.2	6	93	93	6	6	93	93	<0.2	2.0	2.0	2.0					
	7.1	0.2	48	27.6						27.6	8.0	8.0	19.1	19.1	91.3	91.4	6.5	6.5	6.4	9	94	94	9	9	94	94	<0.2	2.0	2.0	2.0					
IM6	Rainy	Moderate																																	

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on **04 June 19** during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	
								Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value
IM9	Cloudy	Moderate	06:58	7.6	Surface	1.0	0.6	102	28.6	28.6	7.9	7.9	11.7	11.7	93.3	93.3	6.8	6.8	3.3	3.3	9	7	87	91	822116	808791	<0.2	2.3						
						1.0	0.6	109	28.6	7.9	7.9	11.7	11.7	93.3	93.3	6.8	6.8	3.3	3.3	12	7	87	91	<0.2	2.3									
					Middle	3.8	0.6	90	28.6	8.0	8.0	11.7	11.7	92.3	92.3	6.7	6.7	3.3	3.3	12	7	91	91	<0.2	2.4									
						3.8	0.6	95	28.6	8.0	8.0	11.7	11.7	92.3	92.3	6.7	6.7	3.3	3.3	4	7	90	91	<0.2	2.2									
					Bottom	6.6	0.5	65	27.9	8.0	8.0	15.7	15.7	89.0	89.0	6.4	6.4	9.2	9.2	3	5	95	95	<0.2	2.2									
						6.6	0.5	67	27.9	8.0	8.0	15.7	15.7	89.0	89.0	6.4	6.4	9.2	9.2	3	5	95	95	<0.2	2.3									
IM10	Cloudy	Moderate	06:47	8.1	Surface	1.0	0.7	117	28.6	28.6	7.9	7.9	12.9	12.9	92.7	92.7	6.7	6.7	3.9	3.9	9	5	87	91	822401	809804	<0.2	2.0						
						1.0	0.7	117	28.6	7.9	7.9	12.9	12.9	92.7	92.7	6.7	6.7	3.8	3.8	8	5	87	91	<0.2	2.0									
					Middle	4.1	0.8	90	28.9	8.0	8.0	12.2	12.2	93.7	93.7	6.7	6.7	3.8	3.8	3	5	91	91	<0.2	2.3									
						4.1	0.8	97	28.9	8.0	8.0	12.2	12.2	93.7	93.7	6.7	6.7	3.9	3.9	3	5	90	91	<0.2	2.2									
					Bottom	7.1	0.5	82	28.0	8.0	8.0	15.2	15.2	90.5	90.5	6.5	6.5	6.1	6.1	3	5	94	95	<0.2	2.4									
						7.1	0.5	89	28.0	8.0	8.0	15.2	15.2	90.5	90.5	6.5	6.5	6.1	6.1	3	5	95	95	<0.2	2.3									
IM11	Cloudy	Moderate	06:32	7.7	Surface	1.0	0.6	96	27.8	27.8	8.0	8.0	15.2	15.2	90.6	90.6	6.5	6.5	4.6	4.6	5	5	87	91	822075	811480	<0.2	2.1						
						1.0	0.7	97	27.8	8.0	8.0	15.2	15.2	90.6	90.6	6.5	6.5	4.5	4.5	4	5	87	91	<0.2	1.9									
					Middle	3.9	0.4	113	27.7	8.0	8.0	15.0	15.0	90.3	90.3	6.5	6.5	5.3	5.3	4	5	90	91	<0.2	2.1									
						3.9	0.4	117	27.7	8.0	8.0	15.0	15.0	90.3	90.3	6.5	6.5	5.3	5.3	5	5	90	91	<0.2	2.0									
					Bottom	6.7	0.3	97	27.7	8.0	8.0	16.2	16.2	89.5	89.5	6.4	6.4	4.7	4.7	5	5	94	94	<0.2	1.8									
						6.7	0.3	98	27.7	8.0	8.0	16.2	16.2	89.5	89.5	6.4	6.4	4.9	4.9	6	5	94	94	<0.2	1.9									
IM12	Cloudy	Moderate	06:23	8.8	Surface	1.0	0.6	117	27.9	27.9	8.0	8.0	16.3	16.3	92.0	92.0	6.6	6.6	3.9	3.9	6	5	87	91	821436	812043	<0.2	2.0						
						1.0	0.6	122	27.9	8.0	8.0	16.3	16.3	92.0	92.0	6.6	6.6	3.9	3.9	5	5	86	91	<0.2	2.0									
					Middle	4.4	0.3	87	27.9	8.0	8.0	16.6	16.6	92.3	92.3	6.6	6.6	3.6	3.6	5	5	91	91	<0.2	2.0									
						4.4	0.3	93	27.9	8.0	8.0	16.6	16.6	92.3	92.3	6.6	6.6	3.6	3.6	6	5	91	91	<0.2	1.9									
					Bottom	7.8	0.1	50	27.5	8.0	8.0	17.6	17.6	88.1	88.1	6.3	6.3	5.5	5.5	5	5	96	95	<0.2	2.0									
						7.8	0.1	50	27.5	8.0	8.0	17.6	17.6	88.1	88.1	6.3	6.3	5.5	5.5	5	5	95	95	<0.2	2.0									
SR1A	Rainy	Moderate	06:08	5.5	Surface	1.0	-	-	27.7	27.7	8.0	8.0	14.2	14.2	92.0	92.0	6.7	6.7	3.6	3.6	5	5	-	-	819980	812653	-	-						
						1.0	-	-	27.7	8.0	8.0	14.2	14.2	92.0	92.0	6.7	6.7	3.6	3.6	4	5	-	-	-	-									
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.5	-	-	27.3	27.3	8.0	8.0	18.1	18.1	90.9	90.9	6.5	6.5	4.1	4.1	5	5	-	-	-	-	-	-	-	-	-	-	-	-
						4.5	-	-	27.3	27.3	8.0	8.0	18.1	18.1	90.9	90.9	6.5	6.5	4.1	4.1	5	5	-	-	-	-	-	-	-	-	-	-	-	-
SR2	Rainy	Moderate	06:07	4.8	Surface	1.0	0.4	46	27.5	27.5	8.0	8.0	19.4	19.4	91.5	91.5	6.5	6.5	3.3	3.3	5	6	86	89	821448	814184	<0.2	1.8						
						1.0	0.4	48	27.5	8.0	8.0	19.4	19.4	91.5	91.5	6.5	6.5	3.3	3.3	6	6	87	89	<0.2	1.8									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	<0.2	1.7			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.8	0.3	22	27.1	27.1	8.0	8.0	17.1	17.1	89.5	89.5	6.5	6.5	4.8	4.8	6	6	91	91	<0.2	1.7								
						3.8	0.3	23	27.1	27.1	8.0	8.0	17.1	17.1	89.6	89.6	6.5	6.5	4.8	4.8	6	6	91	91	<0.2	1.7								
SR3	Cloudy	Moderate	07:15	8.2	Surface	1.0	0.2	55	29.1	29.1	7.9	7.9	11.4	11.4	94.5	94.5	6.8	6.8	3.1	3.1	3	6	-	-	822135	807589	-	-						
						1.0	0.3	57	29.1	7.9	7.9	11.4	11.4	94.5	94.5	6.8	6.8	3.1	3.1	3	6	-	-	-	-									
					Middle	4.1	0.2	63	29.1	8.0	8.0	11.5	11.5	93.9	93.9	6.8	6.8	3.2	3.2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	
						4.1	0.2	65	29.1	8.0	8.0	11.5	11.5	93.9	93.9	6.8	6.8	3.2	3.2	6	6	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	7.2	0.0	53	27.6	27.6	8.0	8.0	16.7	16.7	87.3	87.3	6.3	6.3	8.9	8.9	10	10	-	-	-	-	-	-	-	-	-	-	-	
						7.2	0.0	55	27.6	27.6	8.0	8.0	16.7	16.7	87.3	87.3	6.3	6.3	8.9	8.9	11	11	-	-	-	-	-	-	-	-	-	-	-	
SR4A	Cloudy	Calm	06:15	9.5	Surface	1.0	0.4	224	27.7	27.7	8.0	8.0	15.1	15.1	92.8	92.8	6.7	6.7	4.8	4.8	5	7	-	-	817173	807827	-	-						
						1.0	0.4	220	27.7	8.0	8.0	15.1	15.1	92.8	92.8	6.7	6.7	4.7	4.7	6	7	-	-	-	-									
					Middle	4.8	0.3	273	27.7	8.0	8.0	15.0	15.0	92.7	92.7	6.7	6.7	4.5	4.5	6	7	-	-	-	-	-	-	-	-	-	-	-		
						4.8	0.3	276	27.7	8.0	8.0	15.0	15.0	92.4	92.4	6.7	6.7	5.0	5.0	5	7	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	8.5	0.4	253	27.4	27.4	8.0	8.0	16.8	16.8	90.8	91.0	6.5	6.6	8.3	8.3	11	11	-	-	-	-	-	-	-	-	-	-	-	
						8.5	0.4	257	27.4	27.4	8.0	8.0	16.8	16.8	91.1	91.0	6.5	6.6	8.3	8.3	11	11	-	-	-	-	-	-	-	-	-	-		
SR5A	Cloudy	Calm	05:56	4.7	Surface	1.0	0.2	251	27.9	27.9	7.9	7.9	16.2	16.2	91.2	91.2	6.5	6.5	4.3	4.3	6	6	-	-	816588	810702	-	-</						



Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 06 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
						Value	Average		Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
						C1	Fine		Moderate	14:14	7.6	Surface	1.0	0.3	132	28.6	28.6	8.1	8.1	14.0	14.0	96.2	96.2	6.9			6.8	3.8	3	81		85	
1.0	0.3	133	28.5	8.1	8.1			14.1					14.1	96.2	96.2	6.9	6.7	3.7	3	82		85								<0.2	1.2		
3.8	0.3	148	27.9	8.1	8.1			18.8					18.8	93.1	93.0	6.6	6.6	4.1	6	85		88								<0.2	1.2		
Middle	3.8	0.3	150	27.9	8.1			8.1				18.8	18.8	92.9	92.9	6.6	6.5	4.3	5	84		87									<0.2	1.2	
	6.6	0.2	139	28.2	8.1			8.1				18.9	18.9	92.6	92.7	6.5	6.5	6.7	7	88		89									<0.2	1.7	
	6.6	0.2	140	28.2	8.1			8.1				18.9	18.9	92.8	92.8	6.5	6.5	7.1	6	87		88									<0.2	1.5	
Bottom	1.0	0.6	177	27.9	7.9			7.9				12.8	12.8	92.6	92.4	6.8	6.8	6.0	5	84		85									<0.2	2.3	
	1.0	0.6	184	27.9	7.9			7.9				12.8	12.8	92.1	92.1	7.0	7.0	6.1	4	85		86									<0.2	2.2	
	5.6	0.4	142	27.8	7.9			7.9				11.6	11.6	88.7	88.6	6.5	6.5	5.6	6	88		89									<0.2	1.9	
Bottom	5.6	0.4	155	27.8	7.9	7.9	11.6	11.6	88.5	88.5	6.5	6.5	5.6	5	87		88									<0.2	1.4						
	10.2	0.3	135	27.7	7.9	7.9	13.9	13.9	88.5	88.5	6.4	6.5	5.3	5	89		90									<0.2	2.0						
	10.2	0.3	136	27.7	7.9	7.9	13.9	13.9	88.5	88.5	6.5	6.5	5.2	5	89		90									<0.2	2.0						
C2	Fine	Moderate	13:24	11.2	Surface	1.0	0.6	177	27.9	27.9	7.9	7.9	12.8	12.8	92.6	92.4	6.8	6.8	6.0	5	84		85						<0.2	2.3			
						1.0	0.6	184	27.9	7.9	7.9	12.8	12.8	92.1	92.1	7.0	7.0	6.1	4	85		86								<0.2	2.2		
						5.6	0.4	142	27.8	7.9	7.9	11.6	11.6	88.7	88.6	6.5	6.5	5.6	6	88		89								<0.2	1.9		
					Middle	5.6	0.4	155	27.8	7.9	7.9	11.6	11.6	88.5	88.5	6.5	6.5	5.6	5	87		88									<0.2	1.2	
						10.2	0.3	135	27.7	7.9	7.9	13.9	13.9	88.5	88.5	6.4	6.5	5.3	5	89		90									<0.2	2.0	
						10.2	0.3	136	27.7	7.9	7.9	13.9	13.9	88.5	88.5	6.5	6.5	5.2	5	89		90									<0.2	2.0	
					Bottom	1.0	0.3	99	28.5	28.5	8.0	8.0	17.0	17.0	92.9	92.9	6.6	6.6	5.7	3	85		86									<0.2	2.2
						1.0	0.3	108	28.5	28.5	8.0	8.0	17.0	17.0	92.9	92.9	6.6	6.6	5.8	3	86		87									<0.2	2.1
						6.1	0.3	92	27.9	27.9	8.0	8.0	19.2	19.2	91.9	91.9	6.5	6.5	8.0	3	88		89								<0.2	2.2	
Bottom	6.1	0.3	96	27.9	27.9	8.0	8.0	19.2	19.2	91.9	91.9	6.5	6.5	8.1	4	87		88									<0.2	2.1					
	11.1	0.2	87	27.8	27.9	8.0	8.0	20.9	20.9	90.5	90.6	6.3	6.3	3.9	3	89		90								<0.2	2.0						
	11.1	0.2	91	27.9	27.9	8.0	8.0	20.8	20.9	90.7	90.6	6.3	6.3	3.9	4	89		90								<0.2	1.9						
C3	Fine	Moderate	15:02	12.1	Surface	1.0	0.3	99	28.5	28.5	8.0	8.0	17.0	17.0	92.9	92.9	6.6	6.6	5.7	3	85		86						<0.2	2.2			
						1.0	0.3	108	28.5	28.5	8.0	8.0	17.0	17.0	92.9	92.9	6.6	6.6	5.8	3	86		87								<0.2	2.1	
						6.1	0.3	92	27.9	27.9	8.0	8.0	19.2	19.2	91.9	91.9	6.5	6.5	8.0	3	88		89							<0.2	2.2		
					Middle	6.1	0.3	96	27.9	27.9	8.0	8.0	19.2	19.2	91.9	91.9	6.5	6.5	8.1	4	87		88								<0.2	2.1	
						11.1	0.2	87	27.8	27.9	8.0	8.0	20.9	20.9	90.5	90.6	6.3	6.3	3.9	3	89		90								<0.2	2.0	
						11.1	0.2	91	27.9	27.9	8.0	8.0	20.8	20.9	90.7	90.6	6.3	6.3	3.9	4	89		90								<0.2	1.9	
					Bottom	1.0	0.1	258	28.2	28.2	8.0	8.0	13.9	13.9	93.5	93.5	6.8	6.8	3.8	4	84		85									<0.2	1.2
						1.0	0.1	260	28.2	28.2	8.0	8.0	13.9	13.9	93.5	93.5	6.8	6.8	3.8	3	84		85									<0.2	1.2
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	86		87						<0.2	1.3
Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	86		87						<0.2	1.5					
	4.7	0.1	223	28.2	28.2	8.0	8.0	13.9	13.9	94.0	94.1	6.8	6.8	3.8	3	89		90								<0.2	1.3						
	4.7	0.1	244	28.2	28.2	8.0	8.0	13.9	13.9	94.1	94.1	6.8	6.8	3.9	3	88		89								<0.2	1.5						
IM1	Fine	Moderate	14:01	5.7	Surface	1.0	0.1	258	28.2	28.2	8.0	8.0	13.9	13.9	93.5	93.5	6.8	6.8	3.8	4	84		85							<0.2	1.2		
						1.0	0.1	260	28.2	28.2	8.0	8.0	13.9	13.9	93.5	93.5	6.8	6.8	3.8	3	84		85								<0.2	1.2	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	86		87						<0.2	1.3
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	86		87						<0.2	1.5
						4.7	0.1	223	28.2	28.2	8.0	8.0	13.9	13.9	94.0	94.1	6.8	6.8	3.8	3	89		90								<0.2	1.3	
						4.7	0.1	244	28.2	28.2	8.0	8.0	13.9	13.9	94.1	94.1	6.8	6.8	3.9	3	88		89								<0.2	1.5	
					Bottom	1.0	0.5	232	28.2	28.2	8.1	8.1	16.2	16.2	94.4	94.4	6.7	6.7	3.7	5	82		83									<0.2	1.7
						1.0	0.5	233	28.2	28.2	8.1	8.1	16.2	16.2	94.4	94.4	6.7	6.7	3.7	4	82		83									<0.2	1.6
						4.3	0.4	226	28.1	28.1	8.0	8.0	16.4	16.4	94.0	94.0	6.7	6.7	3.7	4	85		86								<0.2	1.4	
Bottom	4.3	0.4	228	28.1	28.1	8.0	8.0	16.4	16.4	94.0	94.0	6.7	6.7	3.7	4	85		86									<0.2	1.5					
	7.5	0.3	216	28.0	28.0	8.0	8.0	16.9	16.8	94.2	94.3	6.7	6.7	3.8	5	88		89									<0.2	1.2					
	7.5	0.3	225	28.0	28.0	8.0	8.0	16.8	16.8	94.3	94.3	6.7	6.7	4.1	6	88		89									<0.2	1.1					
IM2	Fine	Moderate	13:55	8.5	Surface	1.0	0.6	212	28.0	28.0	8.0	8.0	15.2	15.2	93.7	93.7	6.7	6.7	9.1	4	82		83							<0.2	1.4		
						1.0	0.6	218	28.0	28.0	8.1	8.1	15.2	15.2	93.6	93.6	6.7	6.7	8.9	4	82		83								<0.2	1.3	
						4.5	0.4	254	27.8	27.8	8.1	8.1	15.5	15.5	93.3	93.3	6.7	6.7	4.7	4	85		86								<0.2	1.7	
					Middle	4.5	0.4	225	27.8	27.8	8.1	8.1	15.5	15.5	93.3	93.3	6.7	6.7	4.6	4	85		86									<0.2	1.6
						7.9	0.3	246	27.7	27.7	8.0	8.0	16.8	16.8	93.4	93.5	6.7	6.7	5.5	4	88		89									<0.2	1.3
						7.9	0.3	228	27.7	27.7	8.0	8.0	16.8	16.8	93.5	93.5	6.7	6.7	5.9	5	88		89									<0.2	1.4
					Bottom	1.0	0.6	219	28.3	28.3	8.0	8.0	13.8	13.8	92.9	92.9	6.7	6.7	4.0	4	81		82									<0.2	2.0
						1.0	0.6	220	28.2	28.3	8.0	8.0	13.8	13.8	92.9	92.9	6.7	6.7	4.0	5	81		82									<0.2	1.8
						4.6	0.6	211	28.0	28.0	8.0	8.0	13.8	13.8	92.5	92.5	6.7	6.7	3.7	5	85		86								<0.2	1.7	
Bottom	4.6	0.7	200	28.0	28.0	8.0	8.0	13.8	13.8	92.4	92.5	6.7	6.7	3.8	4	85		86									<0.2	1.9					
	8.1	0.5	249	27.7	27.7	8.0	8.0	17.4	17.4	91.9	92.0	6.6	6.6	4.8	5	88		89		</													

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on **06 June 19** during **Mid-Ebb Tide**

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)										
								Value		Average	Value		Average	Value		Average	Value		Average	Value		DA	Value		DA	Value		DA	Value	DA	Value	DA						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA							
IM9	Fine	Moderate	14:09	7.4	Surface	1.0	0.3	178	27.7	27.7	7.9	7.9	15.0	15.0	90.2	90.3	6.5	6.5	9.3	5	85	-	-	87	822113	808831	<0.2	2.4		2.5								
						Middle	1.0	0.3	172	27.7	27.9	7.9	7.9	15.0	15.0	90.3	90.3	6.5	6.5	9.3	6	84	-	-	85	87	88	<0.2	2.4		2.4							
							3.7	0.3	164	27.9	27.9	7.9	7.9	14.7	14.7	88.7	88.7	6.4	6.4	8.8	6	89	-	-	88	87	88	<0.2	2.4		2.5							
					Bottom	3.7	0.3	168	27.9	28.0	7.9	7.9	14.7	14.7	88.7	88.7	6.4	6.4	8.8	6	87	-	-	88	87	88	<0.2	2.4		2.6								
						6.4	0.2	171	28.0	28.0	7.9	7.9	15.1	15.1	88.9	89.1	6.4	6.4	6.0	6	89	-	-	88	87	88	<0.2	2.6		2.5								
					6.4	0.2	173	28.0		7.9	7.9	15.1		89.2		6.4	6.4	5.8	6	88	-	-	88	87	88	<0.2	2.5		2.5									
					IM10	Fine	Moderate	14:16	7.7	Surface	1.0	0.8	151	27.9	27.9	7.9	7.9	13.4	13.4	89.4	89.4	6.5	6.5	7.8	4	84	-	-	87	822378	809813	<0.2	2.2		2.1			
											Middle	1.0	0.9	162	27.9	27.8	7.9	7.9	13.4	13.5	89.4	91.2	6.5	6.6	7.8	5	84	-	-	86	88	<0.2	2.3		2.4			
												3.9	0.9	162	27.8	27.8	7.9	7.9	13.5	13.5	91.1	91.2	6.6	6.7	5.9	8	86	-	-	88	87	88	<0.2	2.3		2.5		
Bottom	3.9	0.9	163	27.8						27.6	7.9	7.9	13.5	13.5	91.2	90.4	6.7	6.5	5.8	9	88	-	-	88	88	89	<0.2	2.3		2.4								
	6.7	0.5	159	27.6						27.6	7.9	7.9	15.9	15.9	90.4	90.4	6.5	6.5	10.1	11	88	-	-	88	88	<0.2	2.4		2.5									
6.7	0.5	144	27.6							7.9	7.9	15.9		90.4		6.5	6.5	10.1	12	89	-	-	89	88	89	<0.2	2.5		2.5									
IM11	Fine	Moderate	14:25	7.8						Surface	1.0	1.0	149	28.1	28.1	7.9	7.9	15.4	15.4	92.5	92.5	6.6	6.6	4.9	4	84	-	-	86	822058	811458	<0.2	2.2		2.1			
											Middle	1.0	1.1	136	28.1	28.1	7.9	7.9	15.4	15.4	92.5	92.3	6.6	6.6	4.8	4	84	-	-	87	88	<0.2	2.1		2.4			
												3.9	0.8	110	28.1	28.1	7.9	7.9	15.8	15.8	92.3	92.3	6.6	6.6	3.7	5	87	-	-	88	87	88	<0.2	2.6		2.6		
					Bottom	3.9	0.9	116	28.1	28.0	7.9	7.9	15.8	15.8	92.3	92.1	6.6	6.6	3.8	4	86	-	-	88	88	<0.2	2.6		2.5									
						6.8	0.6	114	28.0	28.0	7.9	7.9	15.0	15.0	92.1	92.1	6.6	6.6	5.0	4	88	-	-	89	88	<0.2	2.6		2.5									
					6.8	0.6	114	28.0		7.9	7.9	15.0		92.1		6.6	6.6	5.2	5	89	-	-	89	88	89	<0.2	2.5		2.5									
					IM12	Fine	Moderate	14:33	7.9	Surface	1.0	0.9	124	28.1	28.1	8.0	8.0	16.5	16.5	93.6	93.6	6.7	6.7	9.4	4	84	-	-	87	821477	812039	<0.2	2.2		2.0			
											Middle	1.0	0.9	132	28.1	28.0	8.0	8.0	16.5	16.7	93.6	94.7	6.7	6.8	9.4	4	84	-	-	87	88	<0.2	2.3		2.1			
												4.0	0.5	113	28.0	28.0	8.0	8.0	16.7	16.7	94.7	94.7	6.8	6.8	8.4	4	87	-	-	88	88	<0.2	2.5		2.1			
Bottom	4.0	0.5	123	28.0						27.2	8.0	8.0	16.7	18.1	94.7	92.8	6.8	6.7	8.4	5	86	-	-	88	88	<0.2	2.3		2.1									
	6.9	0.4	103	27.2						27.2	8.0	8.0	18.1	18.1	92.5	93.0	6.6	6.7	7.5	6	89	-	-	89	88	<0.2	2.1		2.1									
6.9	0.4	104	27.1							8.0	8.0	18.1		93.0		6.7	6.7	7.4	6	89	-	-	89	88	<0.2	2.1		2.1										
SR1A	Fine	Moderate	14:36	4.7						Surface	1.0	-	-	28.2	28.2	8.0	8.0	15.7	15.7	90.9	91.0	6.5	6.5	4.7	6	-	-	-	-	819973	812657	-	-		-			
											Middle	1.0	-	-	28.2		8.0	-	-	-	-	15.7	15.7	91.0	91.0	6.5	6.5	4.7	6	-	-	-	-	-	-	-	-	
												2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	2.4	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
						3.7	-	-	28.0	28.0	8.0	8.0	16.9	16.9	91.3	91.3	6.5	6.5	3.6	5	-	-	-	-	-	-	-	-	-	-	-							
					3.7	-	-	28.0		8.0	8.0	16.9		91.3		6.5	6.5	3.6	5	-	-	-	-	-	-	-	-	-	-	-								
					SR2	Fine	Moderate	14:43	4.3	Surface	1.0	0.6	100	28.0	28.0	8.0	8.0	17.6	17.6	91.8	91.9	6.5	6.5	9.5	4	87	-	-	88	821465	814158	<0.2	2.5		2.4			
											Middle	1.0	0.6	109	28.0		8.0	-	-	-	-	17.6	17.6	91.9	91.9	6.5	6.5	9.5	4	86	-	-	88	88	<0.2	2.4		2.6
												3.3	0.3	128	27.2	27.3	8.0	8.0	21.6	21.6	88.5	88.7	6.2	6.2	8.2	8	89	-	-	89	88	<0.2	2.7		2.6			
Bottom	3.3	0.3	137	27.3							8.0	-	-	-	-	21.5	21.5	6.2	6.2	7.9	6	89	-	-	89	88	<0.2	2.6		2.6								
	6.2	0.6	109	28.0							8.0	-	-	-	-	21.5	21.5	6.2	6.2	7.9	6	89	-	-	89	88	<0.2	2.6		2.6								
SR3	Fine	Moderate	13:59	8.7						Surface	1.0	0.2	201	29.2	29.2	7.9	7.9	13.6	13.6	91.6	91.6	6.5	6.5	4.0	4	-	-	-	-	822136	807586	-	-		-			
											Middle	1.0	0.2	206	29.2	28.2	7.9	7.9	13.6	13.2	91.6	90.9	6.5	6.6	4.0	4	-	-	-	-	-	-	-	-	-	-		
												4.4	0.1	166	28.2	28.2	7.9	7.9	13.2	13.2	90.9	90.9	6.6	6.6	8.2	4	-	-	-	-	-	-	-	-	-			
										Bottom	4.4	0.1	168	28.2	28.0	7.9	7.9	13.2	14.3	90.8	86.7	6.6	6.3	8.3	4	-	-	-	-	-	-	-	-	-				
					7.7	0.1	168	28.0	28.0		7.9	7.9	14.3	14.3	86.7	86.7	6.3	6.3	5.8	7	-	-	-	-	-	-	-	-										
					7.7	0.1	173	28.0		7.9	7.9	14.3		86.7		6.3	6.3	5.9	6	-	-	-	-	-	-	-	-	-										
					SR4A	Fine	Calm	14:28	10.0	Surface	1.0	0.5	60	28.1	28.1	8.1	8.1	16.6	16.6	93.7	93.7	6.7	6.7	4.2	5	-	-	-	-	817187	807790	-	-		-			
											Middle	1.0	0.5	63	28.1	28.3	8.1	8.1	16.6	16.6	93.7	93.7	6.7	6.7	4.2	5	-	-	-	-	-	-	-	-	-			
												5.0	0.6	59	28.2	28.3	8.1	8.1	16.6	16.6	93.6	93.7	6.7	6.7	4.5	6	-	-	-	-	-	-	-	-				
Bottom	5.0	0.6	60	28.3						28.5	8.1	8.1	16.6	17.6	93.7	94.2	6.7	6.6	4.7	5	-	-	-	-	-	-	-	-										
	9.0	0.3	39	28.5						28.5	8.1	8.1	17.6	17.6	94.2	94.4	6.6	6.6	5.5	7	-	-	-	-	-	-	-	-										
9.0	0.3	41	28.5							8.1	8.1	17.6		94.4		6.6	6.6	5.5	8	-	-	-	-	-	-	-	-	-										
SR5A	Fine	Calm	14:42	3.3						Surface	1.0	0.0	309	30.6	30.6	8.1	8.1	16.0	16.1	97.5	97.6	6.7	6.7	4.0	2	-	-	-	-	816616	810706	-	-		-			
											Middle	1.0	0.0	337	30.5		8.1	-	-	-	-	16.1	16.1	97.5	97.5	6.7	6.7	4.0	2	-	-	-	-	-	-	-		
												2.3	0.1	122	29.6	29.7	8.1	8.1	17.4	17.4	94.3	94.3	6.5	6.5	4.4	6	-	-	-	-	-	-	-	-				
					Bottom	2.3	0.1	126	29.7		8.1	-	-	-	-	17.4	17.4	6.5	6.5	4.4	6	-	-	-	-	-	-	-	-									
						3.2	0.1	20	30.5	30.5	8.0	8.0	16.3	16.3	93.8	93.8																						

**Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring**

**Water Quality Monitoring Results on 06 June 19 during Mid-Flood Tide**

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
						C1	Fine	Moderate	08:09	7.6	Surface	1.0	0.6	43	27.7	27.8	8.0	8.0	15.5	15.5	91.3	91.3	6.6	6.6	4.4			5.4	5	5	82
						1.0	0.6	44	27.8		8.0	8.0	15.5	15.5	92.1	92.1	6.6	6.6	4.3		4		82	85			<0.2	<0.2	1.7	1.6	
					Middle	3.8	0.5	35	27.8	27.8	8.0	8.0	15.3	15.3	91.5	91.5	6.6	6.6	4.5	5.4	5	5	84	85			<0.2	<0.2	1.6	1.6	
						3.8	0.6	35	27.7		8.0	8.0	15.3	15.3	91.2	91.2	6.6	6.6	4.7		4		84	85			<0.2	<0.2	1.6	1.6	
					Bottom	6.6	0.4	18	27.7	27.7	8.0	8.0	17.6	17.6	90.8	90.8	6.5	6.5	6.9	6.4	6	6	88	87			<0.2	<0.2	1.4	1.4	
						6.6	0.4	18	27.7		8.0	8.0	17.6	17.6	91.0	91.0	6.5	6.5	7.4		6	6	87	85			<0.2	<0.2	1.5	1.5	
C2	Fine	Moderate	09:40	11.6	Surface	1.0	0.6	18	27.8	27.8	7.9	7.9	12.0	12.0	90.2	90.2	6.6	6.6	5.5	6.4	4	5	85	87	825668	806947	<0.2	<0.2	2.4	2.6	
						1.0	0.7	19	27.8		7.9	7.9	12.0	12.0	90.2	90.2	6.6	6.6	5.5		4		84	85			<0.2	<0.2	2.5	2.5	
					Middle	5.8	0.3	15	27.8	27.8	8.0	8.0	13.3	13.3	88.0	88.1	6.4	6.4	4.1	6.4	5	5	87	88			<0.2	<0.2	2.8	2.6	
						5.8	0.3	16	27.8		8.0	8.0	13.3	13.3	88.1	88.1	6.4	6.4	4.1		5		88	87			<0.2	<0.2	2.6	2.5	
					Bottom	10.6	0.3	13	27.6	27.7	8.0	8.0	14.5	14.5	87.4	87.6	6.4	6.4	9.7	6.4	5	5	89	89			<0.2	<0.2	2.5	2.6	
						10.6	0.3	14	27.7		8.0	8.0	14.5	14.5	87.7	87.7	6.4	6.4	9.6		5	5	89	87			<0.2	<0.2	2.6	2.6	
C3	Fine	Moderate	07:56	12.2	Surface	1.0	0.5	222	27.5	27.5	8.0	8.0	15.7	15.7	88.5	88.6	6.4	6.4	3.8	6.1	4	5	85	88	822097	817819	<0.2	<0.2	2.4	2.5	
						1.0	0.5	226	27.5		8.0	8.0	15.7	15.7	88.6	88.6	6.4	6.4	3.8		4	5	85	88			<0.2	<0.2	2.6	2.5	
					Middle	6.1	0.5	241	27.6	27.6	8.0	8.0	15.5	15.5	89.7	89.7	6.5	6.5	7.5	6.1	5	5	88	89			<0.2	<0.2	2.6	2.6	
						6.1	0.5	256	27.5		8.0	8.0	15.5	15.5	91.3	91.3	6.6	6.6	7.5		5	5	89	89			<0.2	<0.2	2.6	2.6	
					Bottom	11.2	0.1	264	27.4	27.4	8.0	8.0	19.6	19.6	89.2	89.3	6.3	6.3	7.0	6.3	5	5	90	89			<0.2	<0.2	2.4	2.7	
						11.2	0.1	272	27.4		8.0	8.0	19.6	19.6	89.4	89.4	6.3	6.3	7.0		4	4	89	87			<0.2	<0.2	2.7	2.7	
IM1	Fine	Moderate	08:19	5.4	Surface	1.0	0.3	28	28.1	28.1	8.0	8.0	12.1	12.1	90.3	90.3	6.6	6.6	4.3	4.3	4	5	83	83	817966	807121	<0.2	<0.2	2.0	2.0	
						1.0	0.3	30	28.1		8.0	8.0	12.1	12.1	90.2	90.2	6.6	6.6	4.3		5	5	83	83			<0.2	<0.2	2.0	2.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3		4	4	85	85			<0.2	<0.2	2.0	2.0
						-	-	-	-	-	-	-	-	-	-	-	-	-	-									<0.2	<0.2	2.0	2.0
					Bottom	4.4	0.2	23	28.2	28.2	8.0	8.0	12.2	12.2	90.3	90.4	6.6	6.6	4.4	6.6	5	5	86	86			<0.2	<0.2	2.0	1.9	
						4.4	0.2	24	28.2		8.0	8.0	12.2	12.2	90.4	90.4	6.6	6.6	4.4		5	5	86	86			<0.2	<0.2	1.9	1.9	
IM2	Fine	Moderate	08:24	8.3	Surface	1.0	0.5	42	27.8	27.8	7.9	7.9	11.2	11.2	89.0	89.0	6.6	6.6	5.0	6.6	4	4	81	82	818174	806189	<0.2	<0.2	2.2	2.1	
						1.0	0.5	43	27.8		7.9	7.9	11.2	11.2	89.0	89.0	6.6	6.6	5.0	6.6	4	4	82	85			<0.2	<0.2	2.1	2.0	
					Middle	4.2	0.5	28	27.8	27.8	8.0	8.0	11.1	11.1	89.1	89.1	6.6	6.6	4.2	6.6	4	4	85	84			<0.2	<0.2	2.0	2.0	
						4.2	0.5	28	27.7		8.0	8.0	11.1	11.1	89.1	89.1	6.6	6.6	4.3	6.5	5	5	84	88			<0.2	<0.2	1.9	2.0	
					Bottom	7.3	0.4	359	27.6	27.6	8.0	8.0	13.5	13.5	89.1	89.1	6.5	6.5	4.8	6.5	5	5	88	87			<0.2	<0.2	2.0	2.0	
						7.3	0.4	330	27.6		8.0	8.0	13.5	13.5	89.2	89.2	6.5	6.5	4.9		4	4	87	87			<0.2	<0.2	2.0	2.0	
IM3	Fine	Moderate	08:29	8.5	Surface	1.0	0.4	12	27.7	27.7	7.9	7.9	11.6	11.6	86.7	86.8	6.4	6.4	4.6	6.5	4	4	81	82	818801	805608	<0.2	<0.2	2.0	2.0	
						1.0	0.5	12	27.7		7.9	7.9	11.6	11.6	86.8	86.8	6.4	6.4	4.7	6.5	4	4	82	84			<0.2	<0.2	2.2	2.1	
					Middle	4.3	0.5	11	27.6	27.6	7.9	7.9	11.7	11.7	88.4	88.5	6.5	6.5	4.6	6.5	4	4	84	84			<0.2	<0.2	2.1	2.0	
						4.3	0.5	11	27.6		7.9	7.9	11.7	11.7	88.6	88.6	6.5	6.5	4.6	6.5	4	4	84	87			<0.2	<0.2	2.0	2.0	
					Bottom	7.5	0.4	347	27.6	27.6	7.9	7.9	15.1	15.1	89.5	89.5	6.5	6.5	4.7	6.5	5	5	87	87			<0.2	<0.2	1.9	2.0	
						7.5	0.4	319	27.6		7.9	7.9	15.1	15.1	89.8	89.8	6.5	6.5	4.8		5	5	87	87			<0.2	<0.2	2.0	2.0	
IM4	Fine	Moderate	08:36	9.1	Surface	1.0	0.8	0	28.1	28.1	7.9	7.9	9.1	9.1	88.7	88.7	6.6	6.6	4.2	6.6	3	4	81	81	819735	804601	<0.2	<0.2	2.1	2.0	
						1.0	0.9	0	28.1		7.9	7.9	9.1	9.1	88.7	88.7	6.6	6.6	4.3	6.6	4	4	81	84			<0.2	<0.2	2.0	2.0	
					Middle	4.6	0.9	8	27.9	27.9	7.9	7.9	9.3	9.3	87.7	87.6	6.5	6.5	4.6	6.6	3	4	84	84			<0.2	<0.2	2.0	2.0	
						4.6	1.0	8	27.9		7.9	7.9	9.3	9.3	87.5	87.5	6.5	6.5	4.6	6.4	4	4	84	86			<0.2	<0.2	1.9	2.1	
					Bottom	8.1	0.5	340	27.7	27.7	7.9	7.9	12.8	12.8	87.4	87.5	6.4	6.4	4.2	6.4	3	3	86	87			<0.2	<0.2	2.1	2.1	
						8.1	0.5	313	27.7		7.9	7.9	12.8	12.8	87.5	87.5	6.4	6.4	4.3		4	4	87	87			<0.2	<0.2	2.1	2.1	
IM5	Fine	Moderate	08:43	8.4	Surface	1.0	0.9	18	28.0	28.0	7.9	7.9	11.9	11.9	88.1	88.1	6.5	6.5	5.7	6.5	4	5	81	81	820711	804862	<0.2	<0.2	2.2	2.1	
						1.0	0.9	18	28.0		7.9	7.9	11.9	11.9	88.1	88.1	6.5	6.5	5.7	6.5	3	5	81	84			<0.2	<0.2	2.0	2.1	
					Middle	4.2	0.7	24	28.0	28.0	7.9	7.9	11.8	11.8	88.7	88.8	6.5	6.5	4.6	6.5	5	5	84	84			<0.2	<0.2	2.1	2.1	
						4.2	0.8	25	27.9		7.9	7.9	11.8	11.8	88.8	88.8	6.5	6.5	4.5	6.5											





Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on **08 June 19** during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
								IM9	Sunny	Moderate	15:41	7.7	Surface	1.0	0.4	170	28.5	7.8	7.8	13.7	13.7	80.8	80.8			5.8	5.8	11.2	6	83	86	86	86
1.0	0.4	176	28.5	7.8	7.8	13.7	13.7							80.7	80.7	5.8	5.8	11.3	7	82	86	86	86	822111	808795	<0.2	2.3	<0.2	2.1				
3.9	0.3	183	28.1	7.8	7.8	16.6	16.6							76.1	76.1	5.4	5.4	17.9	6	86	86	86	86	822111	808795	<0.2	2.3	<0.2	2.1				
Middle	3.9	0.3	188	28.1	7.8	7.8	16.6						16.6	76.1	76.1	5.4	5.4	17.9	7	86	86	86	86	822111	808795	<0.2	2.3	<0.2	2.1				
	6.7	0.2	163	28.1	7.8	7.8	17.1						17.1	76.0	76.0	5.4	5.4	19.1	7	90	90	90	90	822111	808795	<0.2	2.0	<0.2	2.0				
	6.7	0.2	166	28.1	7.8	7.8	17.1						17.1	76.0	76.0	5.4	5.4	19.2	7	90	90	90	90	822111	808795	<0.2	2.0	<0.2	2.0				
Bottom	6.7	0.2	163	28.1	7.8	7.8	17.1						17.1	76.0	76.0	5.4	5.4	19.1	7	90	90	90	90	822111	808795	<0.2	2.0	<0.2	2.0				
	6.7	0.2	166	28.1	7.8	7.8	17.1						17.1	76.0	76.0	5.4	5.4	19.2	7	90	90	90	90	822111	808795	<0.2	2.0	<0.2	2.0				
	6.7	0.2	166	28.1	7.8	7.8	17.1						17.1	76.0	76.0	5.4	5.4	19.2	7	90	90	90	90	822111	808795	<0.2	2.0	<0.2	2.0				
IM10	Sunny	Moderate	15:52	7.4	Surface	1.0	0.3	159	28.6	7.8	7.8	14.1	14.1	85.7	85.7	6.1	6.1	10.7	4	82	81	81	81	822408	809789	<0.2	2.3	<0.2	2.3				
						1.0	0.3	151	28.6	7.8	7.8	14.1	14.1	85.7	85.7	6.1	6.1	10.7	4	81	87	87	87	822408	809789	<0.2	2.3	<0.2	2.2				
						3.7	0.4	143	28.5	7.8	7.8	14.5	14.5	84.9	85.0	6.1	6.1	10.8	4	87	87	87	87	822408	809789	<0.2	2.2	<0.2	1.9				
					Middle	3.7	0.4	144	28.5	7.8	7.8	14.5	14.5	85.0	85.0	6.1	6.1	10.8	5	87	87	87	87	822408	809789	<0.2	2.2	<0.2	1.9				
						6.4	0.2	126	28.4	7.9	7.8	15.5	15.6	84.7	84.7	6.0	6.0	10.5	5	90	90	90	90	822408	809789	<0.2	2.0	<0.2	2.0				
						6.4	0.2	144	28.4	7.9	7.8	15.6	15.6	84.6	84.6	6.0	6.0	10.6	5	90	90	90	90	822408	809789	<0.2	2.0	<0.2	1.9				
					Bottom	6.4	0.2	126	28.4	7.9	7.8	15.5	15.6	84.7	84.7	6.0	6.0	10.5	5	90	90	90	90	822408	809789	<0.2	2.0	<0.2	2.0				
						6.4	0.2	144	28.4	7.9	7.8	15.6	15.6	84.6	84.6	6.0	6.0	10.6	5	90	90	90	90	822408	809789	<0.2	2.0	<0.2	1.9				
						6.4	0.2	144	28.4	7.9	7.8	15.6	15.6	84.6	84.6	6.0	6.0	10.6	5	90	90	90	90	822408	809789	<0.2	2.0	<0.2	1.9				
IM11	Sunny	Moderate	16:04	7.8	Surface	1.0	0.2	135	28.7	7.9	7.9	15.9	15.9	88.0	88.0	6.2	6.2	9.4	4	83	82	86	86	822076	811476	<0.2	2.1	<0.2	2.0				
						1.0	0.3	140	28.7	7.9	7.9	15.9	15.9	87.9	87.9	6.1	6.1	9.4	3	82	86	86	86	822076	811476	<0.2	2.0	<0.2	2.0				
						3.9	0.2	122	28.2	7.9	7.9	17.1	17.1	81.4	81.4	5.8	5.8	10.2	4	86	87	87	87	822076	811476	<0.2	2.0	<0.2	1.8				
					Middle	3.9	0.2	141	28.2	7.9	7.9	17.1	17.1	81.3	81.3	5.8	5.8	10.2	3	87	87	87	87	822076	811476	<0.2	2.0	<0.2	1.8				
						6.8	0.1	174	27.5	7.8	7.8	21.9	21.9	73.9	73.9	5.2	5.2	12.7	2	90	90	90	90	822076	811476	<0.2	1.9	<0.2	1.9				
						6.8	0.1	168	27.5	7.8	7.8	21.9	21.9	73.9	73.9	5.2	5.2	12.7	3	90	90	90	90	822076	811476	<0.2	1.9	<0.2	1.9				
					Bottom	6.8	0.1	174	27.5	7.8	7.8	21.9	21.9	73.9	73.9	5.2	5.2	12.7	2	90	90	90	90	822076	811476	<0.2	1.9	<0.2	1.9				
						6.8	0.1	168	27.5	7.8	7.8	21.9	21.9	73.9	73.9	5.2	5.2	12.7	3	90	90	90	90	822076	811476	<0.2	1.9	<0.2	1.9				
						6.8	0.1	168	27.5	7.8	7.8	21.9	21.9	73.9	73.9	5.2	5.2	12.7	3	90	90	90	90	822076	811476	<0.2	1.9	<0.2	1.9				
IM12	Sunny	Moderate	16:12	8.7	Surface	1.0	0.4	141	28.6	7.9	7.9	16.9	16.9	85.3	85.2	6.0	6.0	9.5	3	82	82	85	85	821443	812046	<0.2	1.7	<0.2	1.6				
						1.0	0.5	122	28.6	7.9	7.9	16.9	16.9	85.1	85.1	6.0	6.0	9.5	3	82	85	85	85	821443	812046	<0.2	1.6	<0.2	1.7				
						4.4	0.2	106	27.7	7.9	7.9	20.5	20.5	75.3	75.3	5.3	5.3	12.3	4	85	86	86	86	821443	812046	<0.2	1.7	<0.2	1.6				
					Middle	4.4	0.2	119	27.7	7.9	7.9	20.5	20.5	75.3	75.3	5.3	5.3	12.3	4	85	86	86	86	821443	812046	<0.2	1.7	<0.2	1.6				
						7.7	0.2	166	27.3	7.9	7.9	23.4	23.4	72.7	72.8	5.1	5.1	13.7	5	89	89	89	89	821443	812046	<0.2	1.6	<0.2	1.7				
						7.7	0.2	169	27.3	7.9	7.9	23.4	23.4	72.8	72.8	5.1	5.1	13.7	4	90	90	90	90	821443	812046	<0.2	1.7	<0.2	1.6				
					Bottom	7.7	0.2	166	27.3	7.9	7.9	23.4	23.4	72.7	72.8	5.1	5.1	13.7	5	89	89	89	89	821443	812046	<0.2	1.6	<0.2	1.7				
						7.7	0.2	169	27.3	7.9	7.9	23.4	23.4	72.8	72.8	5.1	5.1	13.7	4	90	90	90	90	821443	812046	<0.2	1.7	<0.2	1.6				
						7.7	0.2	169	27.3	7.9	7.9	23.4	23.4	72.8	72.8	5.1	5.1	13.7	4	90	90	90	90	821443	812046	<0.2	1.7	<0.2	1.6				
SR1A	Sunny	Moderate	16:36	5.3	Surface	1.0	-	-	28.5	7.9	7.9	16.8	16.8	84.5	84.5	6.0	6.0	9.6	5	-	-	-	-	819982	812661	-	-	-	-				
						1.0	-	-	28.5	7.9	7.9	16.8	16.8	84.5	84.5	6.0	6.0	9.6	5	-	-	-	-	819982	812661	-	-	-	-				
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812661	-	-	-	-			
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812661	-	-	-	-		
						4.3	-	-	28.1	7.9	7.9	18.0	18.0	81.1	81.2	5.7	5.8	9.4	4	-	-	-	-	-	-	819982	812661	-	-	-	-		
						4.3	-	-	28.1	7.9	7.9	18.0	18.0	81.3	81.2	5.7	5.8	9.4	4	-	-	-	-	-	-	819982	812661	-	-	-	-		
					Bottom	4.3	-	-	28.1	7.9	7.9	18.0	18.0	81.1	81.2	5.7	5.8	9.4	4	-	-	-	-	-	-	819982	812661	-	-	-	-		
						4.3	-	-	28.1	7.9	7.9	18.0	18.0	81.3	81.2	5.7	5.8	9.4	4	-	-	-	-	-	-	819982	812661	-	-	-	-		
						4.3	-	-	28.1	7.9	7.9	18.0	18.0	81.3	81.2	5.7	5.8	9.4	4	-	-	-	-	-	-	819982	812661	-	-	-	-		
SR2	Sunny	Moderate	16:52	4.8	Surface	1.0	0.4	150	28.5	7.9	7.9	16.6	16.6	85.3	85.3	6.0	6.0	9.6	4	82	83	86	86	821475	814145	<0.2	1.8	<0.2	1.9				
						1.0	0.5	142	28.5	7.9	7.9	16.6	16.6	85.2	85.2	6.0	6.0	9.6	5	83	86	86	86	821475	814145	<0.2	1.9	<0.2	1.8				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821475	814145	<0.2	1.8	<0.2	1.9		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821475	814145	<0.2	1.8	<0.2	1.9	
						3.8	0.2	127	28.1	7.9	7.9	17.9	17.9	82.1	82.1	5.8	5.8</																

**Expansion of Hong Kong International Airport into a Three-Runway System**

**Water Quality Monitoring**

**Water Quality Monitoring Results on 08 June 19 during Mid-Flood Tide**

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
									C1	Fine	Moderate	09:13	8.3	Surface	1.0	0.4	55	28.2	28.3	8.0	8.0	15.3	15.3	96.0			96.0	6.9	6.9	8.5	6	85	6	85
1.0	0.4	58	28.3	8.0	8.0	15.3	15.3	96.0							96.0	6.9	6.9	8.6	5	86	5	86	6	88	6	88	88	815634	804258	<0.2	1.3	<0.2	1.3	
4.2	0.3	21	28.2	28.2	8.0	8.0	15.6	15.6							95.0	95.0	6.8	6.8	5.4	6	87	6	87	6	87	6	87	88	815634	804258	<0.2	1.4	<0.2	1.4
Middle	4.2	0.3	21	28.2	28.2	8.0	8.0	15.6						15.6	94.9	94.9	6.8	6.8	5.3	6	87	6	87	6	87	6	87	88	815634	804258	<0.2	1.4	<0.2	1.4
	7.3	0.3	351	28.2	28.2	8.0	8.0	16.9						16.9	94.6	94.6	6.7	6.7	5.3	6	89	6	89	6	89	6	89	88	815634	804258	<0.2	1.4	<0.2	1.4
	7.3	0.3	357	28.2	28.2	8.0	8.0	16.9						16.9	94.7	94.7	6.7	6.7	5.6	6	90	6	90	6	90	6	90	88	815634	804258	<0.2	1.4	<0.2	1.4
C2	Sunny	Moderate	09:59	10.7	Surface	1.0	0.3	333	29.0	29.0	7.8	7.8	11.5	11.5	86.0	86.0	6.2	6.2	10.3	3	86	3	86	89	825703	806936	<0.2	2.6	<0.2	2.6				
						1.0	0.3	335	29.0	29.0	7.8	7.8	11.5	11.5	86.0	86.0	6.2	6.2	10.3	4	85	4	85	4	85	4	85	89	825703	806936	<0.2	2.5	<0.2	2.5
						5.4	0.4	326	28.1	28.1	7.9	7.9	17.1	17.1	75.0	75.0	5.3	5.3	9.7	4	89	4	89	4	89	4	89	89	825703	806936	<0.2	3.0	<0.2	3.0
					Middle	5.4	0.4	357	28.1	28.1	7.9	7.9	17.1	17.1	74.9	74.9	5.3	5.3	9.7	4	89	4	89	4	89	4	89	89	825703	806936	<0.2	3.0	<0.2	3.0
						9.7	0.4	326	28.1	28.1	7.9	7.9	17.6	17.6	75.2	75.2	5.3	5.3	9.6	3	94	3	94	3	94	3	94	89	825703	806936	<0.2	2.9	<0.2	2.9
						9.7	0.4	354	28.1	28.1	7.9	7.9	17.6	17.6	75.2	75.2	5.3	5.3	9.6	3	93	3	93	3	93	3	93	89	825703	806936	<0.2	2.8	<0.2	2.8
C3	Fine	Moderate	08:22	11.3	Surface	1.0	0.3	264	28.3	28.3	7.8	7.8	14.6	14.6	82.3	82.3	5.9	5.9	9.6	3	84	3	84	88	822123	817802	<0.2	2.8	<0.2	2.8				
						1.0	0.3	267	28.3	28.3	7.8	7.8	14.6	14.6	82.3	82.3	5.9	5.9	9.6	3	84	3	84	3	84	3	84	88	822123	817802	<0.2	2.6	<0.2	2.6
						5.7	0.4	246	27.9	27.9	7.8	7.8	18.9	18.9	79.9	79.9	5.6	5.6	8.8	3	88	3	88	3	88	3	88	88	822123	817802	<0.2	2.7	<0.2	2.7
					Middle	5.7	0.5	257	27.9	27.9	7.8	7.8	18.9	18.9	79.9	79.9	5.6	5.6	8.8	3	88	3	88	3	88	3	88	88	822123	817802	<0.2	2.5	<0.2	2.5
						10.3	0.4	284	27.1	27.1	7.9	7.9	25.2	25.1	76.6	76.6	5.3	5.3	8.7	3	92	3	92	3	92	3	92	88	822123	817802	<0.2	2.9	<0.2	2.9
						10.3	0.4	296	27.2	27.2	7.9	7.9	25.1	25.1	77.0	77.0	5.3	5.3	8.7	3	92	3	92	3	92	3	92	88	822123	817802	<0.2	2.3	<0.2	2.3
IM1	Fine	Moderate	09:30	5.4	Surface	1.0	0.3	34	28.2	28.2	8.0	8.0	16.6	16.6	94.4	94.4	6.7	6.7	5.6	5	87	5	87	89	817953	807125	<0.2	2.3	<0.2	2.3				
						1.0	0.3	35	28.2	28.2	8.0	8.0	16.6	16.6	94.3	94.3	6.7	6.7	5.6	5	86	5	86	5	86	5	86	89	817953	807125	<0.2	2.3	<0.2	2.3
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	817953	807125	<0.2	2.3	<0.2	2.3
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	817953	807125	<0.2	2.3	<0.2	2.3
						4.4	0.3	24	28.2	28.2	7.9	7.9	17.6	17.6	93.5	93.5	6.6	6.6	6.1	6	92	6	92	6	92	6	92	89	817953	807125	<0.2	2.2	<0.2	2.2
						4.4	0.3	24	28.2	28.2	7.9	7.9	17.6	17.6	93.5	93.5	6.6	6.6	6.4	6	90	6	90	6	90	6	90	89	817953	807125	<0.2	2.2	<0.2	2.2
IM2	Fine	Moderate	09:37	7.6	Surface	1.0	0.5	43	28.3	28.3	8.0	8.0	13.5	13.5	95.6	95.6	6.9	6.9	4.0	4	85	4	85	88	818140	806170	<0.2	2.2	<0.2	2.2				
						1.0	0.5	44	28.3	28.3	8.0	8.0	13.5	13.5	95.6	95.6	6.9	6.9	4.0	4	86	4	86	4	86	4	86	88	818140	806170	<0.2	2.3	<0.2	2.3
						3.8	0.3	7	28.3	28.3	8.0	8.0	14.9	14.9	94.8	94.8	6.8	6.8	4.4	3	88	3	88	3	88	3	88	88	818140	806170	<0.2	2.4	<0.2	2.4
					Middle	3.8	0.4	7	28.3	28.3	8.0	8.0	14.9	14.9	94.7	94.7	6.8	6.8	4.4	2	87	2	87	2	87	2	87	88	818140	806170	<0.2	2.2	<0.2	2.2
						6.6	0.4	322	28.3	28.3	8.0	8.0	15.7	15.7	94.2	94.2	6.7	6.7	5.1	4	90	4	90	4	90	4	90	88	818140	806170	<0.2	2.3	<0.2	2.3
						6.6	0.4	328	28.3	28.3	8.0	8.0	15.7	15.7	94.4	94.4	6.7	6.7	5.1	4	90	4	90	4	90	4	90	88	818140	806170	<0.2	2.2	<0.2	2.2
IM3	Fine	Moderate	09:42	7.7	Surface	1.0	0.4	26	28.3	28.3	8.0	7.9	13.5	13.5	94.0	93.8	6.8	6.8	7.4	4	86	4	86	88	818770	805598	<0.2	2.0	<0.2	2.0				
						1.0	0.5	28	28.2	28.2	7.9	7.9	13.5	13.5	93.6	93.6	6.8	6.8	7.5	4	86	4	86	4	86	4	86	88	818770	805598	<0.2	2.0	<0.2	2.0
						3.9	0.4	334	28.2	28.2	7.9	7.9	15.4	15.4	92.9	92.8	6.7	6.7	4.3	5	89	5	89	5	89	5	89	88	818770	805598	<0.2	2.2	<0.2	2.2
					Middle	3.9	0.4	336	28.2	28.2	7.9	7.9	15.4	15.4	92.7	92.8	6.6	6.6	4.4	6	88	6	88	6	88	6	88	88	818770	805598	<0.2	2.0	<0.2	2.0
						6.7	0.4	319	28.2	28.2	7.9	7.9	16.9	16.9	92.4	92.4	6.6	6.6	4.3	5	90	5	90	5	90	5	90	88	818770	805598	<0.2	2.1	<0.2	2.1
						6.7	0.4	341	28.2	28.2	7.9	7.9	16.9	16.9	92.4	92.4	6.6	6.6	4.3	5	90	5	90	5	90	5	90	88	818770	805598	<0.2	2.0	<0.2	2.0
IM4	Fine	Moderate	09:52	7.8	Surface	1.0	0.5	355	28.2	28.2	8.1	8.1	8.4	8.4	93.8	93.8	7.0	7.0	5.6	4	84	4	84	88	819741	804625	<0.2	2.0	<0.2	2.0				
						1.0	0.5	327	28.2	28.2	8.1	8.1	8.4	8.4	93.7	93.7	7.0	7.0	5.6	4	85	4	85	4	85	4	85	88	819741	804625	<0.2	2.0	<0.2	2.0
						3.9	0.6	340	28.0	28.0	8.0	8.0	14.6	14.6	93.3	93.3	6.7	6.7	5.5	5	87	5	87	5	87	5	87	88	819741	804625	<0.2	2.1	<0.2	2.1
					Middle	3.9	0.6	354	28.0	28.0	8.0	8.0	14.6	14.6	93.3	93.3	6.7	6.7	5.5	4	88	4	88	4	88	4	88	88	819741	804625	<0.2	2.0	<0.2	2.0
						6.8	0.4	353	28.0	28.0	8.0	8.0	16.3	16.3	93.7	93.8	6.7	6.7	4.7	5	90	5	90	5	90	5	90	88	819741	804625	<0.2	2.0	<0.2	2.0
						6.8	0.5	325	28.0	28.0	8.0	8.0	16.3	16.3	93.8	93.8	6.7	6.7	4.6	5	90	5	90	5	90	5	90	88	819741	804625	<0.2	2.1	<0.2	2.1
IM5	Fine	Moderate	09:58	7.4	Surface	1.0	0.7	28	28.4	28.4	7.9	7.9	10.9	10.9	94.4	94.4	6.9	6.9	6.2	4	85	4	85	88	820717	804848	<0.2	2.3	<0.2	2.3				
						1.0	0.7	29	28.4	28.4	7.9	7.9	10.9	10.9	94.4	94.4	6.9	6.9	6.2	3	85	3	85	3	85	3	85	88	820717	804848	<0.2	2.2	<0.2	2.2
						3.7	0.8	5	28.3	28.3	7.9	7.9	12.5	12.5	94.2	94.2	6.8	6.8	4.7	3	88	3	88	3	88	3	88	88	820717	804848	<0.2	2.3	<0.2	2.3
					Middle	3.7	0.8	5	28.3	28.3	7.9	7.9	12.5	12.5	94.2	94.2	6.8	6.8	4.7	4	88	4	88	4	88	4	88	88	820717	804848	<0.2	2.3	<0.2	2.3
						6.4	0.5	38	28.5	28.5	8.0	8.0	13.2	13.2	94.8	94.8	6.8	6.8	5.2	4	90	4	90	4	90	4	90	88	820717	804848	<0.2	2.4	<0.2	2.4





Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 11 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
C1	Rainy	Rough	07:59	8.5	Surface	1.0	0.1	164	28.1	28.1	8.0	8.0	13.2	13.2	94.7	94.7	6.9	6.9	4.0	4.0	4	4	83	86	815611	804229	<0.2	1.7	1.7	1.8					
						1.0	0.1	169	28.1	8.0	8.0	13.2	13.2	94.7	94.7	6.9	6.9	3.9	3.9	4	4	84	86	<0.2	1.8	1.8	1.9								
						4.3	0.1	170	28.1	8.0	8.0	13.3	13.3	94.8	94.8	6.9	6.9	5.2	5.2	5	5	86	88	<0.2	1.9	1.9	2.0								
					Middle	4.3	0.1	176	28.1	8.0	8.0	13.3	13.3	94.8	94.8	6.9	6.9	5.1	5.1	4	4	87	89	<0.2	2.1	2.1	2.2								
						7.5	0.2	206	28.0	8.0	8.0	13.9	13.9	94.5	94.5	6.9	6.9	5.4	5.4	4	4	88	90	<0.2	1.8	1.8	1.9								
						7.5	0.2	188	28.0	8.0	8.0	13.9	13.9	94.7	94.7	6.9	6.9	5.5	5.5	5	5	88	90	<0.2	1.9	1.9	2.0								
					C2	Rainy	Moderate	09:34	11.8	Surface	1.0	0.5	159	28.3	28.3	8.1	8.1	9.8	9.8	91.9	92.0	6.8	6.8	10.2	10.2	4	4	85	88	825687	806945	<0.2	2.2	2.2	2.2
											1.0	0.5	163	28.2	8.1	8.1	9.8	9.8	92.0	92.0	6.8	6.8	10.3	10.3	5	5	84	87	<0.2	2.1	2.1	2.2			
											5.9	0.2	121	27.4	8.1	8.1	10.2	10.2	88.2	88.2	6.6	6.6	10.7	10.7	6	6	87	89	<0.2	2.2	2.2	2.2			
Middle	5.9	0.2	125	27.4						8.1	8.1	10.3	10.2	88.1	88.1	6.6	6.6	10.8	10.8	5	5	87	89	<0.2	2.1	2.1	2.2								
	10.8	0.1	201	27.2						8.1	8.1	16.9	16.9	88.9	88.9	6.4	6.4	9.6	9.6	4	4	87	89	<0.2	2.3	2.3	2.2								
	10.8	0.1	189	27.2						8.1	8.1	16.9	16.9	89.2	89.1	6.5	6.5	9.6	9.6	5	5	89	91	<0.2	2.2	2.2	2.2								
C3	Rainy	Moderate	07:49	12.1						Surface	1.0	0.2	86	28.4	28.4	8.1	8.1	15.1	15.1	93.3	93.4	6.7	6.7	6.6	6.6	4	4	84	87	822115	817826	<0.2	3.6	3.6	3.7
											1.0	0.2	88	28.4	8.1	8.1	15.1	15.1	93.4	93.4	6.7	6.7	6.5	6.5	4	4	85	88	<0.2	3.6	3.6	3.7			
											6.1	0.1	109	28.3	8.1	8.1	14.9	14.9	92.6	92.6	6.6	6.6	6.9	6.9	3	3	88	90	<0.2	3.8	3.8	3.7			
					Middle	6.1	0.1	114	28.3	8.1	8.1	14.9	14.9	92.5	92.6	6.6	6.6	7.0	7.0	4	4	87	89	<0.2	3.8	3.8	3.7								
						11.1	0.1	142	28.3	8.1	8.1	15.3	15.3	91.9	91.9	6.6	6.6	8.8	8.8	5	5	90	92	<0.2	3.7	3.7	3.7								
						11.1	0.1	143	28.3	8.1	8.1	15.3	15.3	91.9	91.9	6.6	6.6	8.8	8.8	4	4	90	92	<0.2	3.7	3.7	3.7								
					IM1	Rainy	Moderate	08:12	5.7	Surface	1.0	0.2	207	27.9	27.9	8.0	8.0	14.2	14.2	93.5	93.5	6.8	6.8	7.8	7.8	3	3	82	85	817954	807121	<0.2	2.1	2.1	2.0
											1.0	0.2	221	27.9	8.0	8.0	14.2	14.2	93.5	93.5	6.8	6.8	7.7	7.7	3	3	82	85	<0.2	2.0	2.0	2.0			
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4.7	0.1	225	27.8						7.9	7.9	17.6	17.6	90.0	90.1	6.4	6.4	6.7	6.7	4	4	87	89	<0.2	2.0	2.0	1.8								
	4.7	0.1	244	27.8						7.9	7.9	17.6	17.6	90.2	90.1	6.4	6.4	6.6	6.6	4	4	87	89	<0.2	1.8	1.8	1.8								
IM2	Rainy	Moderate	08:18	7.4						Surface	1.0	0.1	228	28.0	28.0	8.0	8.0	14.6	14.6	93.3	93.2	6.7	6.7	9.6	9.6	4	4	83	86	818178	806144	<0.2	1.6	1.6	1.5
											1.0	0.1	229	28.0	8.0	8.0	14.6	14.6	93.1	93.2	6.7	6.7	9.2	9.2	4	4	83	86	<0.2	1.5	1.5	1.5			
											3.7	0.1	258	27.9	7.9	7.9	16.3	16.3	87.6	87.6	6.3	6.3	5.6	5.6	5	5	86	88	<0.2	1.5	1.5	1.5			
					Middle	3.7	0.1	229	27.9	7.9	7.9	16.3	16.3	87.5	87.6	6.3	6.3	5.8	5.8	5	5	87	89	<0.2	1.4	1.4	1.4								
						6.4	0.1	266	27.6	7.9	7.9	18.7	18.7	84.9	85.0	6.0	6.0	9.2	9.2	5	5	89	91	<0.2	1.4	1.4	1.5								
						6.4	0.1	277	27.6	7.9	7.9	18.7	18.7	85.0	85.0	6.0	6.0	8.8	8.8	5	5	89	91	<0.2	1.5	1.5	1.5								
					IM3	Rainy	Moderate	08:24	7.2	Surface	1.0	0.4	234	28.0	28.0	8.0	8.0	14.6	14.6	90.5	90.3	6.5	6.5	8.2	8.2	4	4	84	87	818771	805600	<0.2	1.5	1.5	1.5
											1.0	0.4	239	28.0	8.0	8.0	14.6	14.6	90.1	90.3	6.5	6.5	8.4	8.4	4	4	84	87	<0.2	1.5	1.5	1.5			
											3.6	0.2	247	27.8	7.9	7.9	16.2	16.2	88.7	88.7	6.4	6.4	8.4	8.4	4	4	86	88	<0.2	1.4	1.4	1.5			
Middle	3.6	0.2	252	27.8						7.9	7.9	16.2	16.2	88.7	88.7	6.4	6.4	8.4	8.4	4	4	86	88	<0.2	1.4	1.4	1.5								
	6.2	0.3	221	27.6						7.9	7.9	19.0	19.0	86.5	86.8	6.1	6.1	6.0	6.0	5	5	88	90	<0.2	1.5	1.5	1.6								
	6.2	0.3	222	27.6						7.9	7.9	19.0	19.0	87.1	86.8	6.2	6.2	6.1	6.1	4	4	88	90	<0.2	1.6	1.6	1.6								
IM4	Rainy	Moderate	08:33	7.7						Surface	1.0	0.3	214	28.0	28.0	7.9	7.9	15.4	15.4	88.7	88.8	6.4	6.4	6.6	6.6	6	6	82	85	819736	804596	<0.2	1.5	1.5	1.6
											1.0	0.3	216	28.0	7.9	7.9	15.4	15.4	88.9	88.8	6.4	6.4	6.5	6.5	7	7	83	86	<0.2	1.6	1.6	1.6			
											3.9	0.2	241	28.0	8.0	8.0	14.7	14.7	88.0	88.0	6.4	6.4	7.5	7.5	7	7	87	89	<0.2	1.5	1.5	1.6			
					Middle	3.9	0.2	242	27.9	8.0	8.0	14.7	14.7	87.9	88.0	6.4	6.4	7.4	7.4	7	7	87	89	<0.2	1.9	1.9	1.9								
						6.7	0.1	226	27.4	7.9	7.9	20.0	20.0	81.0	81.2	5.7	5.7	11.4	11.4	7	7	89	91	<0.2	1.5	1.5	1.5								
						6.7	0.1	227	27.4	7.9	7.9	20.0	20.0	81.4	81.4	5.8	5.8	11.3	11.3	6	6	89	91	<0.2	1.4	1.4	1.4								
					IM5	Rainy	Moderate	08:43	6.5	Surface	1.0	0.5	225	28.3	28.3	7.9	7.9	12.4	12.4	92.7	92.7	6.7	6.7	5.8	5.8	4	4	83	86	820744	804875	<0.2	1.6	1.6	1.6
											1.0	0.5	222	28.3	8.0	8.0	12.4	12.4	92.7	92.7	6.7	6.7	5.6	5.6	5	5	84	87	<0.2	1.7	1.7	1.6			
											3.3	0.3	218	28.2	8.0	8.0	12.4	12.4	92.3	92.3	6.7	6.7	6.3	6.3	4	4	87	89	<0.2	1.7	1.7	1.6			
Middle	3.3	0.3	213	28.2						8.0	8.0	12.5	12.4	92.2	92.3	6.7	6.7	6.5	6.5	5	5	87	89	<0.2	1.6	1.6	1.6								
	5.5	0.1	220	28.1						8.0	8.0	13.4	13.4	92.8	93.0	6.7	6.7	5.6	5.6	4	4	89	91	<0.2	1.7	1.7	1.7								
	5.5	0.1	218	28.1						8.0	8.0	13.4	13.4	93.1	93.0	6.8	6.8	5.6	5.6	3	3	90	92	<0.2	1.5	1.5	1.5								
IM6	Rainy	Moderate	08:51	7.8						Surface	1.0	0.6	210	28.3	28.3	7.9	7.9	11.9	11.9	92.8	92.8	6.8	6.8	7.3	7.3	5	5	83	86	821063	805822	<0.2	2.5	2.5	2.0
											1.0	0.6	204	28.3	7.9	7.9	11.9	11.9	92.8	92.8	6.8	6.8	7.3	7.3	4	4	83	86	<0.2	1.9	1.9	2.0			
											3.9	0.6	211	28.3	7.9	7.9	12.2	12.0	92.8	92.8	7.2	7.2	5.0	5.0	5	5	86	88	<0.2	2.0	2.0	2.0			
					Middle	3.9	0.6	215	28.3	7.9	7.9	11.9	12.0	92.8																					

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 11 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Rainy	Moderate	08:57	7.3	Surface	1.0	0.6	188	28.3	28.3	8.1	8.1	11.3	11.3	91.8	91.9	6.7	6.9	9.5	10.0	4	4	85	87	822117	808816	<0.2	2.8	<0.2	2.2			
						1.0	0.6	200	28.3	8.1	8.1	11.3	11.3	92.0	95.0	6.7	6.9	9.4	10.0	3	4	84	87	822117	808816	<0.2	2.2	<0.2	2.2				
						3.7	0.3	189	27.8	8.1	8.1	11.5	11.5	95.0	95.3	7.0	6.9	7.2	10.0	3	4	87	88	822117	808816	<0.2	2.2	<0.2	2.2				
					Middle	3.7	0.4	205	27.8	8.1	8.1	11.5	11.5	95.5	95.3	7.0	6.9	6.9	10.0	3	4	88	89	822117	808816	<0.2	2.2	<0.2	2.2				
						6.3	0.1	210	27.8	8.1	8.1	12.3	12.3	92.1	92.1	6.8	6.8	13.6	13.6	5	6	89	88	822117	808816	<0.2	2.2	<0.2	2.2				
						6.3	0.1	217	27.8	8.1	8.1	12.3	12.3	92.1	92.1	6.8	6.8	13.6	13.6	6	6	88	89	822117	808816	<0.2	2.2	<0.2	2.2				
					Bottom	1.0	0.4	137	28.4	28.5	8.1	8.1	11.8	11.8	91.4	91.4	6.7	6.7	11.1	11.1	6	6	84	85	822369	809774	<0.2	2.2	<0.2	2.2			
						1.0	0.4	143	28.5	28.5	8.1	8.1	11.8	11.8	91.4	91.4	6.7	6.7	11.0	11.0	6	5	85	87	822369	809774	<0.2	2.2	<0.2	2.6			
						3.9	0.3	104	28.6	28.6	8.1	8.1	11.9	11.9	91.7	91.8	6.7	6.7	15.2	15.2	4	4	87	86	822369	809774	<0.2	2.6	<0.2	3.9			
Middle	3.9	0.3	109	28.6	28.6	8.1	8.1	11.9	11.9	91.8	91.8	6.7	6.7	15.2	15.2	4	4	86	89	822369	809774	<0.2	2.6	<0.2	4.0								
	6.7	0.2	167	28.2	28.2	8.1	8.1	12.0	12.0	92.6	92.6	6.8	6.8	14.9	14.9	4	4	89	88	822369	809774	<0.2	4.0	<0.2	4.0								
	6.7	0.2	182	28.2	28.2	8.1	8.1	12.0	12.0	92.6	92.6	6.8	6.8	14.9	14.9	4	4	88	89	822369	809774	<0.2	4.0	<0.2	4.0								
IM10	Rainy	Moderate	08:48	7.7	Surface	1.0	0.4	112	28.5	28.5	8.1	8.1	11.5	11.5	92.9	92.9	6.8	6.8	16.9	14.5	3	3	86	88	822069	811455	<0.2	3.9	<0.2	3.8			
						1.0	0.4	120	28.5	28.5	8.1	8.1	11.6	11.6	92.9	92.9	6.8	6.8	16.9	14.5	3	3	85	87	822069	811455	<0.2	3.9	<0.2	3.9			
						3.8	0.2	80	28.1	28.1	8.1	8.1	12.8	12.8	92.7	92.8	6.8	6.8	13.6	14.0	3	3	87	89	822069	811455	<0.2	3.9	<0.2	3.9			
					Middle	3.8	0.2	85	28.1	28.1	8.1	8.1	12.8	12.8	92.8	92.8	6.8	6.8	14.0	14.0	3	3	89	91	822069	811455	<0.2	4.0	<0.2	4.1			
						6.6	0.0	165	27.9	27.9	8.1	8.1	11.8	11.8	93.2	93.2	6.8	6.8	12.9	12.9	3	3	91	90	822069	811455	<0.2	4.0	<0.2	4.1			
						6.6	0.0	168	27.9	27.9	8.1	8.1	11.8	11.8	93.1	93.1	6.8	6.8	12.9	12.9	3	3	90	89	822069	811455	<0.2	4.0	<0.2	4.1			
					Bottom	1.0	0.3	109	28.4	28.4	8.1	8.1	11.7	11.7	92.5	92.5	6.7	6.7	13.0	13.0	2	2	84	86	821458	812067	<0.2	2.2	<0.2	1.9			
						1.0	0.4	117	28.4	28.4	8.1	8.1	11.7	11.7	92.5	92.5	6.7	6.7	13.0	13.0	2	3	86	88	821458	812067	<0.2	4.0	<0.2	2.8			
						4.1	0.3	91	28.4	28.4	8.1	8.1	11.8	11.8	92.3	92.3	6.7	6.7	12.7	11.8	3	3	88	87	821458	812067	<0.2	3.9	<0.2	2.2			
Middle	4.1	0.3	99	28.4	28.4	8.1	8.1	11.8	11.8	92.2	92.2	6.7	6.7	11.8	12.2	3	3	87	90	821458	812067	<0.2	2.2	<0.2	2.8								
	7.1	0.2	166	28.4	28.4	8.1	8.1	11.7	11.7	92.2	92.2	6.7	6.7	12.2	12.3	2	3	90	89	821458	812067	<0.2	2.2	<0.2	2.8								
	7.1	0.2	171	28.4	28.4	8.1	8.1	11.7	11.7	92.2	92.2	6.7	6.7	12.3	12.3	3	3	90	89	821458	812067	<0.2	2.2	<0.2	2.8								
SR1A	Rainy	Moderate	08:25	4.7	Surface	1.0	-	-	28.3	28.3	8.1	8.1	12.2	12.2	90.5	90.5	6.6	6.6	11.4	13.4	4	4	-	-	819981	812656	-	-	-	-			
						1.0	-	-	28.3	28.3	8.1	8.1	12.2	12.2	90.4	90.4	6.6	6.6	11.0	11.0	4	4	-	-	-	-	819981	812656	-	-	-	-	
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						3.7	-	-	28.3	28.3	8.1	8.1	13.8	13.8	90.3	90.4	6.5	6.5	15.6	15.6	3	3	-	-	-	-	819981	812656	-	-	-	-	
						3.7	-	-	28.3	28.3	8.1	8.1	13.8	13.8	90.4	90.4	6.5	6.5	15.6	15.6	3	3	-	-	-	-	819981	812656	-	-	-	-	
					Bottom	1.0	0.3	93	28.5	28.5	8.1	8.1	12.0	12.0	93.0	92.9	6.8	6.8	12.5	12.1	<2	<2	85	86	821449	814184	<0.2	2.1	<0.2	2.1			
						1.0	0.3	101	28.5	28.5	8.1	8.1	12.0	12.0	92.7	92.7	6.7	6.7	12.1	12.1	<2	<2	86	89	821449	814184	<0.2	2.1	<0.2	2.1			
						3.3	0.2	118	28.5	28.5	8.1	8.1	13.1	13.1	93.0	93.2	6.7	6.7	7.5	7.5	3	4	89	87	821449	814184	<0.2	3.9	<0.2	4.0			
Middle	3.3	0.2	119	28.5	28.5	8.1	8.1	13.1	13.1	93.3	93.2	6.7	6.7	7.5	7.5	3	4	89	87	821449	814184	<0.2	3.9	<0.2	4.0								
	1.0	0.5	165	28.3	28.3	8.1	8.1	11.1	11.1	91.9	92.0	6.7	6.8	9.0	9.0	3	3	-	-	-	-	822159	807553	-	-	-	-						
	1.0	0.5	171	28.3	28.3	8.1	8.1	11.1	11.1	92.1	92.0	6.7	6.8	9.0	9.0	3	3	-	-	-	-	822159	807553	-	-	-	-						
Surface	4.2	0.3	150	28.2	28.2	8.1	8.1	11.2	11.2	92.6	92.7	6.8	6.8	9.1	9.9	3	4	-	-	-	-	822159	807553	-	-	-	-						
	4.2	0.3	165	28.1	28.1	8.1	8.1	11.2	11.2	92.7	92.7	6.8	6.8	9.9	9.9	4	3	-	-	-	-	822159	807553	-	-	-	-						
	7.3	0.4	122	27.7	27.7	8.1	8.1	12.4	12.4	92.0	92.0	6.8	6.8	11.0	11.0	3	3	-	-	-	-	822159	807553	-	-	-	-						
Middle	7.3	0.4	125	27.7	27.7	8.1	8.1	12.4	12.4	92.0	92.0	6.8	6.8	11.0	11.0	3	3	-	-	-	-	822159	807553	-	-	-	-						
	1.0	0.5	58	28.2	28.2	8.0	8.0	13.8	13.8	96.1	96.1	6.9	6.9	4.4	4.4	4	4	-	-	-	-	817210	807831	-	-	-	-						
	1.0	0.5	62	28.2	28.2	8.0	8.0	13.8	13.8	96.1	96.1	6.9	6.9	4.6	4.6	3	3	-	-	-	-	817210	807831	-	-	-	-						
Surface	4.6	0.3	66	28.2	28.2	8.0	8.0	13.9	13.9	96.4	96.5	7.0	7.0	5.3	5.6	3	4	-	-	-	-	817210	807831	-	-	-	-						
	4.6	0.3	70	28.2	28.2	8.0	8.0	13.9	13.9	96.6	96.5	7.0	7.0	5.6	5.6	4	4	-	-	-	-	817210	807831	-	-	-	-						
	8.2	0.3	74	28.1	28.1	8.0	8.0	14.2	14.2	94.2	94.3	6.8	6.8	5.3	5.3	5	4	-	-	-	-	817210	807831	-	-	-	-						
Middle	8.2	0.3	83	28.1	28.1	8.0	8.0	14.2	14.2	94.3	94.3	6.8	6.8	5.3	5.3	4	4	-	-	-	-	817210	807831	-	-	-	-						
	1.0	0.1	74	28.3	28.3	8.0	8.0	14.1	14.1	96.3	96.2	6.9	6.9	5.6	6.1	4	4	-	-	-	-	816586	810698	-	-	-	-						
	1.0	0.1	86	28.3	28.3	8.0	8.0	14.1	14.1	96.3	96.3	6.9	6.9	6.1	6.1	4	4	-	-	-	-	816586	810698	-	-	-	-						
Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816586	810698	-	-	-	-					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816586	810698	-	-	-	-					
	4.5	0.1	79	28.3	28.3	8.0	8.0	14.5	14.5	96.0	96.1	6.9	6.9	6.1	6.0	6	5	-	-	-	-	816586	810698	-	-	-	-						
Middle	4.5	0.1	83	28.3	28.3	8.0	8.0	14.5	14.5	96.1	96.1	6.9	6.9	6.0	6.0	5	5	-	-	-	-	816586	810698	-	-	-	-						
	1.0	0.1	141	28.6	28.6	7.8	7.8	13.8	13.8	97.1	97.1	7.0	7.0	3.6	3.5	3	4	-	-	-	-	817896	814643	-	-	-	-						
	1.0	0.1	147	28.5	28.6	7.8	7.8	13.8	13.8	97.1	97.1	7.0	7.0	3.5	3.5	3	4	-	-														

**Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring**

**Water Quality Monitoring Results on 11 June 19 during Mid-Flood Tide**

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
C1	Rainy	Moderate	12:59	8.3	Surface	1.0	0.5	74	28.3	7.9	7.9	13.4	13.4	92.8	92.7	6.7	6.7	8.6	8.6	3	3	84	84	<0.2	<0.2	1.6	1.6						
						1.0	0.5	77	28.2	7.9	7.9	13.4	13.4	92.5	92.6	6.7	6.7	8.6	8.6	3	3	84	84	<0.2	<0.2	1.5	1.5						
						4.2	0.5	67	28.2	7.9	7.9	13.8	13.8	92.5	92.6	6.7	6.7	7.3	7.3	4	4	87	87	<0.2	<0.2	1.6	1.6						
					Middle	4.2	0.5	72	28.2	7.9	7.9	13.8	13.8	92.6	92.6	6.7	6.7	7.3	7.3	4	4	87	87	<0.2	<0.2	1.6	1.6						
						7.3	0.4	72	28.0	8.0	8.0	14.0	14.0	94.0	94.2	6.8	6.8	7.6	7.6	4	4	89	89	<0.2	<0.2	1.5	1.5						
						7.3	0.4	74	27.8	8.0	8.0	14.0	14.0	94.4	94.4	6.9	6.9	7.4	7.4	4	4	89	89	<0.2	<0.2	1.5	1.5						
C2	Rainy	Moderate	11:58	11.7	Surface	1.0	0.3	17	28.2	8.0	8.0	10.2	10.2	88.7	88.6	6.5	6.5	9.7	9.7	3	3	84	84	<0.2	<0.2	3.6	3.6						
						1.0	0.4	18	28.2	8.0	8.0	10.2	10.2	88.5	88.5	6.5	6.5	9.5	9.5	3	3	85	85	<0.2	<0.2	3.8	3.8						
						5.9	0.2	30	28.0	8.0	8.0	10.3	10.3	88.3	88.3	6.5	6.5	10.3	10.3	3	3	88	88	<0.2	<0.2	3.9	3.9						
					Middle	5.9	0.2	33	28.0	8.0	8.0	10.3	10.3	88.3	88.3	6.5	6.5	10.3	10.3	3	3	86	86	<0.2	<0.2	3.8	3.8						
						10.7	0.1	31	28.0	8.0	8.0	15.5	15.5	88.3	88.4	6.4	6.4	9.6	9.6	4	4	90	90	<0.2	<0.2	3.8	3.8						
						10.7	0.1	33	28.0	8.0	8.0	15.5	15.5	88.5	88.5	6.4	6.4	9.6	9.6	4	4	90	90	<0.2	<0.2	3.9	3.9						
C3	Rainy	Moderate	13:39	12.1	Surface	1.0	0.2	264	28.6	8.2	8.2	13.3	13.3	96.4	96.4	6.9	6.9	9.9	9.9	2	2	85	85	<0.2	<0.2	3.8	3.8						
						1.0	0.2	276	28.6	8.2	8.2	13.3	13.3	96.4	96.4	6.9	6.9	9.9	9.9	2	2	85	85	<0.2	<0.2	3.7	3.7						
						6.1	0.4	260	28.3	8.2	8.2	13.5	13.5	96.4	96.4	7.0	7.0	10.2	10.2	3	3	87	87	<0.2	<0.2	2.7	2.7						
					Middle	6.1	0.4	275	28.3	8.2	8.2	13.5	13.5	96.4	96.4	7.0	7.0	10.2	10.2	3	3	86	86	<0.2	<0.2	2.6	2.6						
						11.1	0.4	299	27.5	8.1	8.1	19.1	19.1	90.7	90.9	6.4	6.4	10.1	10.1	3	3	89	89	<0.2	<0.2	2.2	2.2						
						11.1	0.4	325	27.5	8.1	8.1	19.1	19.1	91.1	91.1	6.5	6.5	10.1	10.1	3	3	88	88	<0.2	<0.2	2.2	2.2						
IM1	Rainy	Moderate	12:46	5.5	Surface	1.0	0.5	28	28.2	8.0	8.0	13.2	13.2	95.7	95.5	6.9	6.9	7.3	7.3	4	4	83	83	<0.2	<0.2	1.7	1.7						
						1.0	0.5	28	28.2	8.0	8.0	13.2	13.2	95.3	95.3	6.9	6.9	7.4	7.4	3	3	83	83	<0.2	<0.2	1.8	1.8						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						4.5	0.2	355	28.2	8.0	8.0	14.2	14.2	94.3	94.4	6.8	6.8	6.0	6.0	4	4	86	86	<0.2	<0.2	1.7	1.7						
						4.5	0.2	327	28.2	8.0	8.0	14.2	14.2	94.4	94.4	6.8	6.8	6.1	6.1	4	4	86	86	<0.2	<0.2	1.7	1.7						
IM2	Rainy	Moderate	12:40	8.0	Surface	1.0	0.5	14	28.2	8.0	8.0	13.6	13.6	96.4	96.3	7.0	7.0	7.7	7.7	4	4	82	82	<0.2	<0.2	1.7	1.7						
						1.0	0.5	14	28.2	8.0	8.0	13.6	13.6	96.1	96.3	7.0	7.0	7.5	7.5	4	4	83	83	<0.2	<0.2	1.7	1.7						
						4.0	0.2	343	28.2	8.0	8.0	14.1	14.1	94.1	94.0	6.8	6.8	8.8	8.8	3	3	86	86	<0.2	<0.2	1.7	1.7						
					Middle	4.0	0.2	316	28.2	8.0	8.0	14.1	14.1	93.9	94.0	6.8	6.8	8.3	8.3	4	4	86	86	<0.2	<0.2	1.7	1.7						
						7.0	0.2	342	28.1	8.0	8.0	14.9	14.9	93.4	93.4	6.7	6.7	4.2	4.2	3	3	88	88	<0.2	<0.2	1.6	1.6						
						7.0	0.2	350	28.1	8.0	8.0	14.9	14.9	93.6	93.5	6.7	6.7	4.3	4.3	4	4	88	88	<0.2	<0.2	1.7	1.7						
IM3	Rainy	Moderate	12:34	7.5	Surface	1.0	0.4	0	28.1	8.0	8.0	14.7	14.7	96.6	96.6	7.0	7.0	5.6	5.6	3	3	83	83	<0.2	<0.2	1.7	1.7						
						1.0	0.4	0	28.1	8.0	8.0	14.7	14.7	96.6	96.6	7.0	7.0	5.7	5.7	2	2	83	83	<0.2	<0.2	1.7	1.7						
						3.8	0.3	350	28.1	8.0	8.0	15.3	15.3	96.1	96.4	6.9	6.9	5.5	5.5	4	4	86	86	<0.2	<0.2	1.8	1.8						
					Middle	3.8	0.3	356	28.0	8.0	8.0	15.3	15.3	96.7	96.4	7.0	7.0	5.9	5.9	4	4	87	87	<0.2	<0.2	1.7	1.7						
						6.5	0.2	341	27.9	8.0	8.0	16.8	16.8	91.1	91.2	6.5	6.5	7.6	7.6	3	3	88	88	<0.2	<0.2	1.7	1.7						
						6.5	0.2	343	27.9	8.0	8.0	16.8	16.8	91.3	91.2	6.5	6.5	7.6	7.6	3	3	88	88	<0.2	<0.2	1.7	1.7						
IM4	Rainy	Moderate	12:24	7.8	Surface	1.0	0.5	334	28.1	7.9	7.9	14.7	14.7	90.6	90.5	6.5	6.5	6.0	6.0	5	5	82	82	<0.2	<0.2	1.7	1.7						
						1.0	0.5	336	28.1	7.9	7.9	14.7	14.7	90.4	90.5	6.5	6.5	6.2	6.2	5	5	82	82	<0.2	<0.2	1.7	1.7						
						3.9	0.2	335	28.1	7.9	7.9	15.3	15.3	90.0	90.0	6.5	6.5	7.0	7.0	6	6	87	87	<0.2	<0.2	1.7	1.7						
					Middle	3.9	0.2	357	28.1	7.9	7.9	15.3	15.3	90.0	90.0	6.5	6.5	7.1	7.1	6	6	88	88	<0.2	<0.2	1.5	1.5						
						6.8	0.3	344	27.9	7.9	7.9	16.6	16.6	88.5	88.5	6.3	6.3	6.4	6.4	6	6	89	89	<0.2	<0.2	1.6	1.6						
						6.8	0.3	359	27.9	7.9	7.9	16.6	16.6	88.6	88.6	6.3	6.3	6.5	6.5	7	7	89	89	<0.2	<0.2	1.6	1.6						
IM5	Rainy	Moderate	12:17	7.3	Surface	1.0	0.4	269	28.4	7.9	7.9	11.8	11.8	92.7	92.6	6.8	6.8	7.1	7.1	4	4	83	83	<0.2	<0.2	2.2	2.2						
						1.0	0.4	294	28.4	7.9	7.9	11.8	11.8	92.5	92.5	6.7	6.7	7.2	7.2	4	4	84	84	<0.2	<0.2	2.3	2.3						
						3.7	0.2	340	28.2	7.9	7.9	13.1	13.1	90.0	89.9	6.5	6.5	7.8	7.8	5	5	87	87	<0.2	<0.2	2.4	2.4						
					Middle	3.7	0.2	313	28.2	7.9	7.9	13.1	13.1	89.7	89.9	6.5	6.5	8.0	8.0	5	5	87	87	<0.2	<0.2	2.4	2.4						
						6.3	0.3	343	28.1	7.9	7.9	15.4	15.4	90.9	91.1	6.5	6.5	9.3	9.3	6	6	89	89	<0.2	<0.2	2.2	2.2						
						6.3	0.3	352	28.1	7.9	7.9	15.4	15.4	91.3	91.1	6.5	6.5	9.3	9.3	6	6	89	89	<0.2	<0.2	2.2	2.2						
IM6	Rainy	Moderate	12:10	7.0	Surface	1.0	0.7	279	28.4	7.9	7.9	11.7	11.7	93.5	93.5	6.8	6.8	6.0	6.0	4	4	83	83	<0.2	<0.2	2.2	2.2						
						1.0	0.7	295	28.4	7.9	7.9	11.7	11.7	93.4	93.4	6.8	6.8	6.4	6.4	4	4	83	83	<0.2	<0.2	2.2	2.2						
						3.5	0.5	284	28.4	7.9	7.9	11.7	11.7	92.9	93.0	6.8	6.8	7.7	7.7	5	5	86	86	<0.2	<0.2	2.1	2.1						
					Middle	3.5	0.6	285	28.4	7.9	7.9	11.7	11.7	93.0	93.0	6.8	6.8	7.7	7.7	5	5	87	87	<0.2	<0.2	2.0	2.0						
						6.0	0.2	19	28.3	7.9	7.9	11.7	11.7	94.1	94.2	6.9	6.9	5.4	5.4	4	4	89	89	<0.2	<0.2	2.1	2.1						
						6.0	0.2	19	28.3	7.9	7.9	11.7	11.7	94.3	94.2	6.9	6.9	5.1	5.1	5	5	89	89	<0.2	<0.2	2.0	2.0						
IM7	Rainy	Moderate	12:02	7.3	Surface	1.0	0.5	232	28.4	7.9	7.9	11.8	11.8	91.7	91.7	6.7	6.5	5	5	83	83	<0.2	<0.2	2.0	2.0								
						1.0	0.5	235	28.4	7.9	7.9	11.8	11.8	91.7	91.7	6.7	6.5	5	5	84	84	<0.2	<0.2	2.0	2.0								
						3.7	0.5	249	28.4	7.9	7.9	11.8	11.8	91.9	91.9	6.7	6.4	5	5	87	87	<0.2	<0.2	2.2	2.2								
					Middle	3.7	0.6	256	28.4	7.9	7.9	11.8	11.8	91.9	91.9	6.7	6.4	5	5	87	87	<0.2	<0.2	2.0	2.0								
						6.3	0.2	216	28.4	7.9	7.9	11.8	11.8	91.9	91.9	6.7	4.9	5	5	88	88	<0.2	<0.2	2.0	2.0								

**Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring**

**Water Quality Monitoring Results on 11 June 19 during Mid-Flood Tide**

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
IM9	Rainy	Moderate	12:21	7.6	Surface	1.0	0.2	246	28.4	28.4	8.1	8.1	11.8	11.8	91.3	91.3	6.6	6.7	9.8	3	83	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2			
						1.0	0.2	246	28.4	8.1	8.1	11.8	11.8	91.3	91.3	6.6	6.7	9.8	4	85	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2				
						3.8	0.2	242	28.3	8.1	8.1	11.8	11.8	91.6	91.6	6.7	6.7	10.4	4	88	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2				
					Middle	3.8	0.2	248	28.3	8.1	8.1	11.8	11.8	91.6	91.6	6.7	6.7	10.3	4	89	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2				
						6.6	0.2	244	28.3	8.1	8.1	11.7	11.7	92.3	92.4	6.7	6.8	10.5	3	90	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2				
						6.6	0.3	253	28.3	8.1	8.1	11.7	11.7	92.5	92.5	6.7	6.8	10.2	4	90	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2				
					Bottom	6.6	0.2	244	28.3	8.1	8.1	11.7	11.7	92.3	92.4	6.7	6.8	10.5	3	90	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2				
						6.6	0.3	253	28.3	8.1	8.1	11.7	11.7	92.5	92.5	6.7	6.8	10.2	4	90	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2				
						8.1	8.1	11.7	11.7	92.5	92.5	6.7	6.8	10.2	4	90	88	88	88	822073	808795	<0.2	2.1	<0.2	2.2								
IM10	Rainy	Moderate	12:29	7.8	Surface	1.0	0.1	206	28.5	28.5	8.1	8.1	12.4	12.4	92.1	92.1	6.7	6.7	16.3	4	84	85	87	87	822395	809770	<0.2	2.1	<0.2	2.1			
						1.0	0.1	224	28.5	8.1	8.1	12.4	12.4	92.1	92.1	6.7	6.7	16.4	3	85	87	87	87	822395	809770	<0.2	2.1	<0.2	2.1				
						3.9	0.1	192	28.3	8.1	8.1	12.4	12.4	92.4	92.5	6.7	6.7	11.0	3	87	88	88	88	822395	809770	<0.2	1.9	<0.2	2.2				
					Middle	3.9	0.1	201	28.3	8.1	8.1	12.4	12.4	92.5	92.5	6.7	6.7	11.3	3	86	88	88	88	822395	809770	<0.2	2.2	<0.2	2.2				
						6.8	0.3	309	28.3	8.1	8.1	12.8	12.8	91.8	91.9	6.7	6.7	11.0	3	90	88	88	88	822395	809770	<0.2	2.2	<0.2	2.2				
						6.8	0.3	332	28.4	8.1	8.1	12.8	12.8	92.0	92.0	6.7	6.7	10.6	4	88	88	88	88	822395	809770	<0.2	2.4	<0.2	2.4				
					Bottom	6.8	0.3	309	28.3	8.1	8.1	12.8	12.8	91.8	91.9	6.7	6.7	11.0	3	90	88	88	88	822395	809770	<0.2	2.2	<0.2	2.2				
						6.8	0.3	332	28.4	8.1	8.1	12.8	12.8	92.0	92.0	6.7	6.7	10.6	4	88	88	88	88	822395	809770	<0.2	2.4	<0.2	2.4				
						8.1	8.1	12.8	12.8	92.0	92.0	6.7	6.7	10.6	4	88	88	88	88	822395	809770	<0.2	2.4	<0.2	2.4								
IM11	Rainy	Moderate	12:39	7.7	Surface	1.0	0.3	355	28.5	28.5	8.1	8.1	12.2	12.2	93.8	93.8	6.8	6.8	8.0	3	84	85	87	87	822045	811468	<0.2	2.3	<0.2	2.3			
						1.0	0.3	327	28.5	8.1	8.1	12.2	12.2	93.8	93.8	6.8	6.8	8.0	3	85	87	87	87	822045	811468	<0.2	2.3	<0.2	2.3				
						3.9	0.3	329	28.5	8.1	8.1	12.2	12.2	93.5	93.5	6.8	6.8	12.3	2	87	88	88	88	822045	811468	<0.2	2.3	<0.2	2.3				
					Middle	3.9	0.3	343	28.5	8.1	8.1	12.2	12.2	93.4	93.5	6.8	6.8	12.3	3	88	88	88	88	822045	811468	<0.2	2.2	<0.2	2.2				
						6.7	0.3	300	28.3	8.1	8.1	13.6	13.6	91.8	91.9	6.6	6.6	11.5	5	89	88	88	88	822045	811468	<0.2	2.2	<0.2	2.2				
						6.7	0.3	320	28.3	8.1	8.1	13.6	13.6	91.9	91.9	6.6	6.6	11.7	4	90	88	88	88	822045	811468	<0.2	2.3	<0.2	2.3				
					Bottom	6.7	0.3	300	28.3	8.1	8.1	13.6	13.6	91.8	91.9	6.6	6.6	11.5	5	89	88	88	88	822045	811468	<0.2	2.2	<0.2	2.2				
						6.7	0.3	320	28.3	8.1	8.1	13.6	13.6	91.9	91.9	6.6	6.6	11.7	4	90	88	88	88	822045	811468	<0.2	2.3	<0.2	2.3				
						8.1	8.1	13.6	13.6	91.9	91.9	6.6	6.6	11.7	4	90	88	88	88	822045	811468	<0.2	2.3	<0.2	2.3								
IM12	Rainy	Moderate	12:48	8.4	Surface	1.0	0.3	276	28.6	28.6	8.1	8.1	11.9	11.9	95.5	95.5	6.9	6.9	10.5	4	85	84	83	83	821477	812062	<0.2	2.1	<0.2	2.2			
						1.0	0.3	290	28.6	8.1	8.1	11.9	11.9	95.5	95.5	6.9	6.9	10.5	5	84	83	88	88	821477	812062	<0.2	2.2	<0.2	2.3				
						4.2	0.5	283	28.4	8.1	8.1	12.0	12.0	92.9	92.8	6.8	6.8	10.1	4	83	88	88	88	821477	812062	<0.2	2.3	<0.2	2.2				
					Middle	4.2	0.5	305	28.3	8.1	8.1	12.0	12.0	92.6	92.6	6.7	6.7	10.1	2	88	90	90	90	821477	812062	<0.2	2.2	<0.2	2.2				
						7.4	0.0	326	28.0	8.1	8.1	16.8	16.8	91.2	91.3	6.5	6.5	9.9	4	90	88	88	88	821477	812062	<0.2	2.2	<0.2	2.2				
						7.4	0.0	326	28.0	8.1	8.1	16.8	16.8	91.4	91.4	6.5	6.5	8.8	4	90	88	88	88	821477	812062	<0.2	2.2	<0.2	2.2				
					Bottom	7.4	0.0	326	28.0	8.1	8.1	16.8	16.8	91.2	91.3	6.5	6.5	9.9	4	90	88	88	88	821477	812062	<0.2	2.2	<0.2	2.2				
						7.4	0.0	326	28.0	8.1	8.1	16.8	16.8	91.4	91.4	6.5	6.5	8.8	4	90	88	88	88	821477	812062	<0.2	2.2	<0.2	2.2				
						8.1	8.1	12.0	12.0	92.6	92.6	6.7	6.7	10.1	2	88	90	90	90	821477	812062	<0.2	2.2	<0.2	2.2								
SR1A	Rainy	Moderate	13:04	4.9	Surface	1.0	-	-	28.3	28.3	8.1	8.1	12.5	12.4	97.4	97.5	7.1	7.1	7.4	2	-	-	-	-	819978	812658	-	-	-	-			
						1.0	-	-	28.3	28.3	8.1	8.1	12.4	12.4	97.5	97.5	7.1	7.1	7.4	2	-	-	-	-	819978	812658	-	-	-	-			
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819978	812658	-	-	-	-
						3.9	-	-	28.0	28.0	8.2	8.2	13.1	13.1	97.6	97.7	7.1	7.1	9.4	5	-	-	-	-	-	-	-	819978	812658	-	-	-	-
						3.9	-	-	27.9	28.0	8.2	8.2	13.1	13.1	97.8	97.8	7.1	7.1	9.4	4	-	-	-	-	-	-	-	819978	812658	-	-	-	-
					Bottom	3.9	-	-	28.0	28.0	8.2	8.2	13.1	13.1	97.6	97.7	7.1	7.1	9.4	5	-	-	-	-	-	-	-	819978	812658	-	-	-	-
						3.9	-	-	27.9	28.0	8.2	8.2	13.1	13.1	97.8	97.8	7.1	7.1	9.4	4	-	-	-	-	-	-	-	819978	812658	-	-	-	-
						8.1	8.1	12.5	12.4	97.4	97.5	7.1	7.1	7.4	2	-	-	-	-	-	-	-	-	-	-	-	-	819978	812658	-	-	-	-
SR2	Rainy	Moderate	13:16	4.6	Surface	1.0	0.7	303	28.3	28.3	8.2	8.2	14.2	14.2	96.5	96.5	7.0	7.0	7.6	4	85	85	85	85	821464	814181	<0.2	2.3	<0.2	2.3			
						1.0	0.8	327	28.3	8.2	8.2	14.2	14.2	96.4	96.5	6.9	6.9	7.6	4	85	85	85	85	821464	814181	<0.2	2.3	<0.2	2.3				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821464	814181	<0.2	2.3	<0.2	2.3
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821464	814181	<0.2	2.3	<0.2	2.3
						3.6	0.4																										

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 13 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	
C1	Rainy	Moderate	15:51	8.5	Surface	1.0	0.4	33	28.2	28.2	7.8	7.8	12.1	12.1	91.6	91.6	6.7	6.7	3.2	3.2	5	5	86	86			<0.2	2.1			
						1.0	0.5	0	28.2	28.2	7.8	7.8	12.1	12.1	91.5	91.5	6.7	6.7	3.2	3.2	5	5	86	86			<0.2	2.0			
						4.3	0.4	31	28.2	28.2	7.8	7.8	12.4	12.4	90.7	90.7	6.6	6.6	3.2	3.1	4	4	88	88			<0.2	2.1			
					Middle	4.3	0.4	33	28.2	28.2	7.8	7.8	12.4	12.4	90.7	90.7	6.6	6.6	3.1	3.1	6	6	89	89			<0.2	2.1			
						7.5	0.3	18	28.2	28.2	7.7	7.7	12.8	12.8	89.1	89.1	6.5	6.5	3.7	3.7	6	6	90	90			<0.2	2.1			
						7.5	0.3	18	28.2	28.2	7.7	7.7	12.8	12.8	89.1	89.1	6.5	6.5	3.7	3.7	6	6	90	90			<0.2	2.1			
C2	Rainy	Rough	14:38	11.8	Surface	1.0	1.1	69	28.0	28.0	7.6	7.6	11.1	11.1	63.8	63.8	4.7	4.7	12.1	12.1	11	11	80	80			<0.2	3.4			
						1.0	1.1	75	28.0	28.0	7.6	7.6	11.1	11.1	63.8	63.8	4.7	4.7	12.1	12.1	11	11	82	82			<0.2	2.9			
						5.9	0.7	69	27.3	27.3	7.7	7.7	21.5	21.5	57.2	57.2	4.0	4.0	11.5	11.5	11	11	85	85			<0.2	3.0			
					Middle	5.9	0.7	74	27.3	27.3	7.7	7.7	23.3	23.3	57.2	57.2	4.0	4.0	11.5	11.5	12	12	86	86			<0.2	3.2			
						10.8	0.1	65	27.3	27.3	7.7	7.7	23.3	23.3	58.8	58.8	4.1	4.1	12.9	12.9	11	11	88	88			<0.2	3.2			
						10.8	0.1	69	27.3	27.3	7.7	7.7	23.3	23.3	58.8	58.8	4.1	4.1	12.9	12.9	12	12	89	89			<0.2	3.3			
C3	Rainy	Rough	16:21	12.4	Surface	1.0	0.6	264	27.9	27.9	7.8	7.8	16.7	16.7	66.0	66.0	4.7	4.7	9.2	9.2	6	6	86	86			<0.2	3.1			
						1.0	0.7	279	27.9	27.9	7.8	7.8	16.7	16.7	66.0	66.0	4.7	4.7	9.2	9.2	7	7	87	87			<0.2	3.2			
						6.2	0.0	256	27.1	27.1	7.8	7.8	22.7	22.7	61.2	61.2	4.3	4.3	9.5	9.5	7	7	89	89			<0.2	3.0			
					Middle	6.2	0.0	268	27.1	27.1	7.8	7.8	22.7	22.7	61.2	61.2	4.3	4.3	9.5	9.5	6	6	88	88			<0.2	3.4			
						11.4	0.2	264	27.2	27.2	7.7	7.7	25.5	25.5	69.7	69.7	4.8	4.8	9.5	9.5	7	7	90	90			<0.2	3.4			
						11.4	0.2	288	27.2	27.2	7.7	7.7	25.5	25.5	69.7	69.7	4.8	4.8	9.5	9.5	6	6	91	91			<0.2	3.4			
IM1	Rainy	Moderate	15:25	5.7	Surface	1.0	0.5	15	28.3	28.3	7.8	7.8	12.9	12.9	93.2	93.1	6.8	6.8	4.7	4.7	4	4	84	84			<0.2	2.1			
						1.0	0.5	16	28.3	28.3	7.8	7.8	12.9	12.9	92.9	92.9	6.7	6.7	4.7	4.7	4	4	84	84			<0.2	2.1			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	4.7	0.1	87	28.3	28.3	7.8	7.8	13.7	13.7	91.9	91.9	6.6	6.6	3.2	3.2	4	4	88	88			<0.2	2.1			
						4.7	0.1	94	28.3	28.3	7.8	7.8	13.7	13.7	91.9	91.9	6.6	6.6	3.2	3.2	4	4	89	89			<0.2	2.1			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IM2	Rainy	Moderate	15:20	6.8	Surface	1.0	0.2	354	28.3	28.3	7.8	7.8	14.6	14.6	92.1	92.0	6.6	6.6	5.5	5.5	4	4	84	84			<0.2	2.4			
						1.0	0.3	326	28.3	28.3	7.8	7.8	14.6	14.6	91.9	91.9	6.6	6.6	5.4	5.4	4	4	84	84			<0.2	2.5			
						3.4	0.3	343	28.2	28.2	7.8	7.8	15.0	15.0	91.1	91.1	6.5	6.5	2.9	2.9	4	4	85	85			<0.2	3.1			
					Middle	3.4	0.3	316	28.2	28.2	7.8	7.8	15.0	15.0	91.1	91.1	6.5	6.5	2.9	2.9	4	4	86	86			<0.2	2.4			
						5.8	0.3	334	28.2	28.2	7.7	7.7	15.5	15.5	90.5	90.5	6.5	6.5	2.7	2.7	4	4	87	87			<0.2	2.4			
						5.8	0.3	352	28.2	28.2	7.7	7.7	15.5	15.5	90.5	90.5	6.5	6.5	2.7	2.7	4	4	88	88			<0.2	2.4			
IM3	Rainy	Rough	15:12	6.9	Surface	1.0	0.3	300	28.1	28.1	7.8	7.8	15.2	15.2	89.8	89.8	6.5	6.5	7.1	7.1	7	7	82	82			<0.2	2.4			
						1.0	0.3	318	28.1	28.1	7.8	7.8	15.2	15.2	89.8	89.8	6.5	6.5	7.1	7.1	7	7	83	83			<0.2	2.4			
						3.5	0.3	319	28.1	28.1	7.8	7.8	15.7	15.7	88.8	88.8	6.4	6.4	5.7	5.7	7	7	85	85			<0.2	2.4			
					Middle	3.5	0.3	349	28.1	28.1	7.8	7.8	15.7	15.7	88.8	88.8	6.4	6.4	5.7	5.7	7	7	86	86			<0.2	2.2			
						5.9	0.2	328	28.1	28.1	7.7	7.7	15.8	15.8	89.0	89.0	6.4	6.4	5.8	5.8	8	8	88	88			<0.2	2.4			
						5.9	0.2	338	28.1	28.1	7.7	7.7	15.8	15.8	89.0	89.0	6.4	6.4	5.8	5.8	9	9	88	88			<0.2	2.4			
IM4	Rainy	Rough	15:04	7.3	Surface	1.0	0.1	21	28.1	28.1	7.8	7.8	16.2	16.2	86.7	86.7	6.3	6.3	5.7	5.7	6	6	84	84			<0.2	2.3			
						1.0	0.1	21	28.1	28.1	7.8	7.8	16.2	16.2	86.8	86.8	6.3	6.3	5.7	5.7	7	7	85	85			<0.2	2.4			
						3.7	0.1	22	28.0	28.0	7.8	7.8	16.7	16.7	86.1	86.1	6.2	6.2	8.0	8.0	6	6	85	85			<0.2	2.4			
					Middle	3.7	0.2	22	28.0	28.0	7.8	7.8	16.7	16.7	86.2	86.2	6.2	6.2	8.0	8.0	6	6	85	85			<0.2	2.5			
						6.3	0.3	338	27.8	27.8	7.8	7.8	18.6	18.6	81.0	81.0	5.7	5.7	6.1	6.1	6	6	88	88			<0.2	2.4			
						6.3	0.3	311	27.8	27.8	7.7	7.7	18.6	18.6	81.2	81.1	5.8	5.8	6.3	6.3	7	7	89	89			<0.2	2.3			
IM5	Rainy	Rough	14:57	7.2	Surface	1.0	0.9	28	28.1	28.1	7.8	7.8	15.4	15.4	87.6	87.5	6.3	6.3	5.6	5.6	6	6	81	81			<0.2	2.3			
						1.0	0.9	27	28.1	28.1	7.8	7.8	15.4	15.4	87.4	87.4	6.3	6.3	5.7	5.7	6	6	82	82			<0.2	2.3			
						3.6	0.8	27	28.1	28.1	7.7	7.7	16.3	16.3	84.4	84.3	6.0	6.0	6.5	6.5	7	7	84	84			<0.2	2.3			
					Middle	3.6	0.8	26	28.0	28.0	7.7	7.7	16.3	16.3	84.1	84.3	6.0	6.0	6.5	6.5	8	8	85	85			<0.2	2.2			
						6.2	0.5	23	28.0	28.0	7.7	7.7	17.2	17.2	83.2	83.3	5.9	5.9	7.6	7.6	8	8	87	87			<0.2	2.2			
						6.2	0.5	25	28.0	28.0	7.7	7.7	17.2	17.2	83.3	83.3	5.9	5.9	8.3	8.3	9	9	88	88			<0.2	2.3			
IM6	Rainy	Rough	14:50	6.6	Surface	1.0	0.9	29	28.2	28.2	7.7	7.7	10.8	10.8	84.9	85.1	6.2	6.2	5.6	5.6	7	7	81	81			<0.2	2.2			
						1.0	0.9	27	28.2	28.2	7.7	7.7	10.8	10.8	85.2	85.2	6.3	6.3	5.8	5.8	6	6	81	81			<0.2	2.2			
						3.3	0.8	26	28.2	28.2	7.7	7.7	12.2	12.2	85.2	85.2	6.2	6.2	5.8	5.8	7	7	85	85			<0.2	2.2			
					Middle	3.3	0.8	26	28.2	28.2	7.7	7.7	12.2	12.2	85.2	85.2	6.2	6.2	5.8	5.8	6	6	85	85			<0.2	2.2			
						5.6	0.5	24	28.3	28.3	7.7	7.7	12.6	12.6	84.8	84.8	6.2	6.2	6.3	6.3	6	6	86	86							

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring  
 Water Quality Monitoring Results on 13 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Rainy	Rough	15:03	6.9	Surface	1.0	0.3	258	28.1	28.1	7.4	7.4	8.5	8.5	73.0	73.0	5.4	5.4	12.3	12.3	9	85	88	88	822106	808802	<0.2	3.0						
						1.0	0.3	261	28.1	28.1	7.4	7.4	8.5	8.5	73.0	73.0	5.4	5.4	12.3	12.3	9	84	88	88			<0.2	3.0						
					Middle	3.5	0.1	291	28.1	28.1	7.4	7.4	9.8	9.8	73.4	73.5	5.4	11.6	11.8	9	88	88	88	88			<0.2	3.0						
						3.5	0.1	285	28.1	28.1	7.4	7.4	9.8	9.8	73.5	73.5	5.5	11.6	11.8	9	89	88	88	88			<0.2	3.2						
					Bottom	5.9	0.1	298	28.1	28.1	7.4	7.4	11.1	11.1	75.2	75.2	5.5	11.5	11.5	10	90	88	88	88			<0.2	3.0						
						5.9	0.1	300	28.1	28.1	7.4	7.4	11.1	11.1	75.2	75.2	5.5	11.5	11.5	9	89	88	88	88			<0.2	3.0						
IM10	Rainy	Rough	15:10	7.4	Surface	1.0	0.3	241	28.2	28.2	7.5	7.5	9.0	9.0	74.0	74.0	5.5	5.5	11.0	11.0	7	86	88	88	822382	809774	<0.2	3.0						
						1.0	0.3	245	28.2	28.2	7.5	7.5	9.0	9.0	74.0	74.0	5.5	11.0	11.0	8	84	88	88	<0.2			3.1							
					Middle	3.7	0.1	264	28.1	28.1	7.5	7.5	12.1	12.1	74.2	74.2	5.4	10.7	10.7	8	89	88	88	88			<0.2	3.0						
						3.7	0.1	259	28.1	28.1	7.5	7.5	12.1	12.1	74.2	74.2	5.4	10.7	10.7	8	88	88	88	88			<0.2	2.9						
					Bottom	6.4	0.2	229	28.1	28.1	7.4	7.4	13.4	13.4	77.1	77.1	5.6	10.9	10.9	7	90	88	88	88			<0.2	2.9						
						6.4	0.2	239	28.1	28.1	7.4	7.4	13.4	13.4	77.1	77.1	5.6	10.9	10.9	8	90	88	88	88			<0.2	3.0						
IM11	Rainy	Rough	15:19	7.4	Surface	1.0	0.4	244	28.2	28.2	7.6	7.6	10.4	10.4	71.7	71.7	5.3	5.3	11.1	11.1	8	85	88	88	822040	811447	<0.2	3.1						
						1.0	0.4	243	28.2	28.2	7.6	7.6	10.4	10.4	71.7	71.7	5.3	11.1	11.1	8	84	88	88	<0.2			3.1							
					Middle	3.7	0.2	229	27.9	27.9	7.7	7.7	16.8	16.8	64.1	64.1	4.6	10.8	10.8	8	89	88	88	88			<0.2	3.0						
						3.7	0.2	232	27.9	27.9	7.7	7.7	16.8	16.8	64.1	64.1	4.6	10.8	10.8	8	88	88	88	88			<0.2	3.0						
					Bottom	6.4	0.1	270	27.6	27.6	7.7	7.7	21.4	21.4	64.0	64.0	4.5	12.3	12.3	9	90	88	88	88			<0.2	3.0						
						6.4	0.1	277	27.6	27.6	7.7	7.7	21.4	21.4	64.0	64.0	4.5	12.3	12.3	9	90	88	88	88			<0.2	3.1						
IM12	Rainy	Rough	15:26	8.1	Surface	1.0	0.2	286	28.2	28.2	7.5	7.5	8.9	8.9	70.5	70.5	5.2	5.2	11.6	11.6	6	85	88	88	821441	812028	<0.2	3.2						
						1.0	0.2	288	28.2	28.2	7.5	7.5	8.9	8.9	70.5	70.5	5.2	11.6	11.6	6	86	88	88	<0.2			2.9							
					Middle	4.1	0.2	204	27.8	27.8	7.5	7.5	15.0	15.0	64.2	64.2	4.6	12.8	12.8	7	89	88	88	88			<0.2	2.9						
						4.1	0.2	225	27.8	27.8	7.5	7.5	15.0	15.0	64.2	64.2	4.6	12.8	12.8	6	88	88	88	88			<0.2	3.1						
					Bottom	7.1	0.2	217	27.5	27.5	7.5	7.5	21.0	21.0	65.3	65.3	4.6	16.5	16.5	7	90	88	88	88			<0.2	3.2						
						7.1	0.3	234	27.5	27.5	7.5	7.5	21.0	21.0	65.3	65.3	4.6	16.5	16.5	6	90	88	88	88			<0.2	2.9						
SR1A	Rainy	Moderate	15:41	4.7	Surface	1.0	-	-	28.2	28.2	7.5	7.5	9.9	9.9	72.3	72.3	5.3	5.3	10.9	10.9	6	-	-	-	819981	812659	-	-						
						1.0	-	-	28.2	28.2	7.5	7.5	9.9	9.9	72.3	72.3	5.3	10.9	10.9	6	-	-	-	-			-	-						
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
					Bottom	3.7	-	-	28.0	28.0	7.5	7.5	14.5	14.5	71.9	71.9	5.2	10.6	10.6	6	-	-	-	-			-	-	-	-	-	-	-	
						3.7	-	-	28.0	28.0	7.5	7.5	14.5	14.5	71.9	71.9	5.2	10.6	10.6	6	-	-	-	-			-	-	-	-	-	-		
SR2	Rainy	Rough	15:58	4.5	Surface	1.0	0.1	236	28.1	28.1	7.7	7.7	10.7	10.7	74.0	74.0	5.5	5.5	10.2	10.2	5	86	88	88	821439	814158	<0.2	2.9						
						1.0	0.1	260	28.1	28.1	7.7	7.7	10.7	10.7	74.0	74.0	5.5	10.2	10.2	5	87	88	88	<0.2			2.9							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-		
					Bottom	3.5	0.2	227	28.0	28.0	7.6	7.6	14.8	14.8	76.4	76.4	5.5	16.6	16.6	5	90	88	88	88			<0.2	3.0						
						3.5	0.2	241	28.0	28.0	7.6	7.6	14.8	14.8	76.4	76.4	5.5	16.6	16.6	6	90	88	88	88			<0.2	2.9						
SR3	Rainy	Rough	14:51	8.6	Surface	1.0	0.8	18	28.1	28.1	7.5	7.5	8.1	8.1	72.1	72.1	5.4	5.4	13.1	13.1	7	-	-	-	822164	807552	-	-						
						1.0	0.9	19	28.1	28.1	7.5	7.5	8.1	8.1	72.1	72.1	5.4	13.1	13.1	7	-	-	-	-			-	-						
					Middle	4.3	0.3	20	27.9	27.9	7.7	7.7	15.6	15.6	67.9	67.9	4.9	10.4	10.4	6	-	-	-	-			-	-	-	-	-			
						4.3	0.4	21	27.9	27.9	7.7	7.7	15.6	15.6	67.8	67.8	4.9	10.4	10.4	7	-	-	-	-			-	-	-	-				
					Bottom	7.6	0.4	25	27.9	27.9	7.5	7.5	16.8	16.8	75.1	75.1	5.4	10.4	10.4	7	-	-	-	-			-	-	-	-	-			
						7.6	0.4	25	27.9	27.9	7.5	7.5	16.8	16.8	75.1	75.1	5.4	10.4	10.4	8	-	-	-	-			-	-	-	-	-			
SR4A	Rainy	Calm	16:11	8.7	Surface	1.0	0.3	257	28.1	28.1	7.8	7.8	16.1	16.1	90.4	90.4	6.5	6.5	7.4	7.4	7	-	-	-	817181	807833	-	-						
						1.0	0.3	279	28.1	28.1	7.8	7.8	16.1	16.1	90.3	90.3	6.4	7.6	7.6	8	-	-	-	-			-	-						
					Middle	4.4	0.5	270	28.1	28.1	7.8	7.8	16.3	16.3	89.4	89.4	6.4	8.2	8.2	8	-	-	-	-			-	-	-	-				
						4.4	0.5	292	28.1	28.1	7.8	7.8	16.3	16.3	89.4	89.4	6.4	8.2	8.2	8	-	-	-	-			-	-	-					
					Bottom	7.7	0.3	276	28.0	28.0	7.7	7.7	17.2	17.2	85.9	86.0	6.1	7.3	7.3	8	-	-	-	-			-	-	-	-				
						7.7	0.3	285	28.0	28.0	7.7	7.7	17.2	17.2	86.0	86.0	6.1	7.3	7.3	9	-	-	-	-			-	-	-	-				
SR5A	Rainy	Calm	16:28	5.4	Surface	1.0	0.1	271	28.3	28.3	7.8	7.8	16.5	16.5	91.7	91.7	6.5	6.5	6.7	6.7	7	-	-	-	816591	810676	-	-						
						1.0	0.1	287	28.3	28.3	7.8	7.8	16.5	16.5	91.6	91.6	6.5	7.1	7.1	8	-	-	-	-			-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-				
					Bottom	4.4	0.1	319	28.2	28.2	7.7	7.7	17.1	17.1	89.8	89.8	6.4	7.9	7.9	8	-	-	-	-			-	-	-	-				
						4.4	0.2	336	28.2	28.2	7.7	7.7	17.1	17.1	89.8	89.8	6.4	8.1	8.1	9	-	-	-	-			-	-	-	-				
SR6	Rainy	Moderate	16:55	4.3	Surface	1.0	0.0	250	28.2	28.2	7.8	7.8	15.4	15.4	92.0	92.0																		

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 15 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
								Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
C1	Sunny	Moderate	11:50	8.1	Surface	1.0	0.4	175	28.3	28.3	7.8	7.8	17.4	17.4	80.8	80.8	5.7	5.7	10.5	4	84	86	86	815618	804264	<0.2	1.7	1.8	1.8				
						1.0	0.4	178	28.2	27.5	7.9	7.7	17.5	17.4	80.7	80.7	5.7	5.7	10.2	4	84	86	86	815618	804264	<0.2	1.8	1.8	1.8				
						4.1	0.4	183	27.5	27.5	7.7	7.7	23.8	23.8	72.6	72.5	5.0	5.4	6.8	6	86	86	86	815618	804264	<0.2	1.8	1.8	1.8				
					Middle	4.1	0.4	196	27.5	27.5	7.7	7.7	23.8	23.8	72.4	72.5	5.0	5.4	6.8	6	86	86	86	815618	804264	<0.2	1.8	1.8	1.8				
						7.1	0.2	179	27.4	27.4	7.7	7.7	25.3	25.3	74.4	74.6	5.1	5.1	6.2	8	88	88	88	815618	804264	<0.2	1.9	1.9	1.9				
						7.1	0.2	185	27.4	27.4	7.7	7.7	25.3	25.3	74.7	74.7	5.1	5.1	6.0	7	88	88	88	815618	804264	<0.2	1.8	1.8	1.8				
					Bottom	7.1	0.2	185	27.4	27.4	7.7	7.7	25.3	25.3	74.7	74.7	5.1	5.1	6.0	7	88	88	88	815618	804264	<0.2	1.8	1.8	1.8				
						7.1	0.2	185	27.4	27.4	7.7	7.7	25.3	25.3	74.7	74.7	5.1	5.1	6.0	7	88	88	88	815618	804264	<0.2	1.8	1.8	1.8				
						7.1	0.2	185	27.4	27.4	7.7	7.7	25.3	25.3	74.7	74.7	5.1	5.1	6.0	7	88	88	88	815618	804264	<0.2	1.8	1.8	1.8				
C2	Sunny	Moderate	12:47	10.8	Surface	1.0	0.8	183	27.9	27.9	7.2	7.2	11.1	11.1	59.2	59.2	4.4	4.4	11.2	5	83	83	83	825705	806943	<0.2	3.1	3.1	3.0				
						1.0	0.8	198	27.9	27.9	7.2	7.2	11.1	11.1	59.2	59.2	4.4	4.4	11.3	6	83	88	88	825705	806943	<0.2	3.1	3.1	3.0				
						5.4	0.3	209	27.3	27.3	7.5	7.5	22.5	22.5	54.9	54.9	3.8	4.1	10.3	6	88	88	88	825705	806943	<0.2	3.1	3.1	3.0				
					Middle	5.4	0.4	222	27.3	27.3	7.5	7.5	22.5	22.5	54.8	54.9	3.8	4.1	10.3	6	87	88	88	825705	806943	<0.2	2.8	2.8	2.8				
						9.8	0.3	262	26.9	26.9	7.5	7.5	25.4	25.4	52.0	52.0	3.6	3.6	12.0	6	91	91	91	825705	806943	<0.2	2.9	2.9	2.9				
						9.8	0.3	277	26.9	26.9	7.5	7.5	25.4	25.4	52.0	52.0	3.6	3.6	12.0	6	91	91	91	825705	806943	<0.2	2.9	2.9	2.9				
					Bottom	9.8	0.3	262	26.9	26.9	7.5	7.5	25.4	25.4	52.0	52.0	3.6	3.6	12.0	6	91	91	91	825705	806943	<0.2	2.9	2.9	2.9				
						9.8	0.3	277	26.9	26.9	7.5	7.5	25.4	25.4	52.0	52.0	3.6	3.6	12.0	6	91	91	91	825705	806943	<0.2	2.9	2.9	2.9				
						9.8	0.3	277	26.9	26.9	7.5	7.5	25.4	25.4	52.0	52.0	3.6	3.6	12.0	6	91	91	91	825705	806943	<0.2	2.9	2.9	2.9				
C3	Sunny	Moderate	10:43	12.3	Surface	1.0	0.6	47	27.7	27.7	7.8	7.8	20.1	20.1	69.0	69.1	4.9	4.9	8.9	3	83	84	84	822103	817823	<0.2	1.7	1.7	1.8				
						1.0	0.6	47	27.7	27.7	7.8	7.8	20.1	20.1	69.1	69.1	4.9	4.9	8.9	4	84	87	88	822103	817823	<0.2	1.7	1.7	1.8				
						6.2	0.3	26	27.3	27.3	7.8	7.8	22.1	22.1	63.9	63.9	4.5	4.7	9.2	3	87	88	88	822103	817823	<0.2	1.8	1.8	1.8				
					Middle	6.2	0.3	27	27.3	27.3	7.8	7.8	22.1	22.1	63.8	63.9	4.5	4.7	9.2	4	88	88	88	822103	817823	<0.2	1.8	1.8	1.8				
						11.3	0.4	47	26.6	26.6	7.9	7.9	26.3	26.3	59.2	59.3	4.1	4.1	8.1	5	92	91	91	822103	817823	<0.2	1.8	1.8	1.8				
						11.3	0.5	50	26.6	26.6	7.9	7.9	26.2	26.3	59.3	59.3	4.1	4.1	8.0	4	91	91	91	822103	817823	<0.2	1.7	1.7	1.7				
					Bottom	11.3	0.4	47	26.6	26.6	7.9	7.9	26.3	26.3	59.2	59.3	4.1	4.1	8.1	5	92	91	91	822103	817823	<0.2	1.8	1.8	1.8				
						11.3	0.5	50	26.6	26.6	7.9	7.9	26.2	26.3	59.3	59.3	4.1	4.1	8.0	4	91	91	91	822103	817823	<0.2	1.7	1.7	1.7				
						11.3	0.5	50	26.6	26.6	7.9	7.9	26.2	26.3	59.3	59.3	4.1	4.1	8.0	4	91	91	91	822103	817823	<0.2	1.7	1.7	1.7				
IM1	Sunny	Moderate	12:00	5.0	Surface	1.0	0.2	255	28.1	28.1	7.8	7.8	19.9	19.9	76.2	76.2	5.3	5.3	3.9	5	81	81	81	817950	807110	<0.2	1.9	2.0	2.0				
						1.0	0.2	279	28.0	28.0	7.8	7.8	20.0	20.0	76.1	76.1	5.3	5.3	4.0	4	81	81	81	817950	807110	<0.2	2.0	2.0	2.0				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	817950	807110	<0.2	-	-	2.0
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	817950	807110	<0.2	-	-	2.0
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	817950	807110	<0.2	-	-	2.0
					Bottom	4.0	0.1	188	27.9	27.9	7.8	7.8	22.3	22.3	70.7	70.8	4.9	4.9	4.8	5	84	85	85	817950	807110	<0.2	2.0	2.0	2.0				
						4.0	0.1	200	27.9	27.9	7.8	7.8	22.3	22.3	70.9	70.9	4.9	4.9	5.0	5	85	85	85	817950	807110	<0.2	2.0	2.0	2.0				
						4.0	0.1	200	27.9	27.9	7.8	7.8	22.3	22.3	70.9	70.9	4.9	4.9	5.0	5	85	85	85	817950	807110	<0.2	2.0	2.0	2.0				
IM2	Sunny	Moderate	12:05	7.2	Surface	1.0	0.4	183	28.2	28.2	7.8	7.8	18.6	18.6	77.0	76.9	5.4	5.4	12.9	7	85	85	85	818156	806160	<0.2	1.6	1.7	1.7				
						1.0	0.5	190	28.1	28.1	7.8	7.8	18.6	18.6	76.8	76.8	5.4	5.4	13.1	7	85	88	88	818156	806160	<0.2	1.6	1.6	1.7				
						3.6	0.4	178	27.7	27.7	7.8	7.8	22.0	22.0	75.1	75.1	5.2	5.3	6.7	8	88	89	89	818156	806160	<0.2	1.6	1.6	1.7				
					Middle	3.6	0.4	194	27.7	27.7	7.8	7.8	22.0	22.0	75.0	75.0	5.2	5.3	6.4	9	88	89	89	818156	806160	<0.2	1.6	1.6	1.7				
						6.2	0.2	181	28.0	28.0	7.8	7.8	22.1	22.1	78.0	78.6	5.4	5.5	12.0	8	90	90	90	818156	806160	<0.2	1.9	1.9	1.8				
						6.2	0.2	193	28.0	28.0	7.8	7.8	22.1	22.1	79.2	78.6	5.5	5.5	11.9	9	90	90	90	818156	806160	<0.2	1.8	1.8	1.8				
					Bottom	6.2	0.2	181	28.0	28.0	7.8	7.8	22.1	22.1	78.0	78.6	5.4	5.5	12.0	8	90	90	90	818156	806160	<0.2	1.9	1.9	1.8				
						6.2	0.2	193	28.0	28.0	7.8	7.8	22.1	22.1	79.2	78.6	5.5	5.5	11.9	9	90	90	90	818156	806160	<0.2	1.8	1.8	1.8				
						6.2	0.2	193	28.0	28.0	7.8	7.8	22.1	22.1	79.2	78.6	5.5	5.5	11.9	9	90	90	90	818156	806160	<0.2	1.8	1.8	1.8				
IM3	Sunny	Moderate	12:12	7.5	Surface	1.0	0.5	218	28.8	28.8	7.8	7.8	20.1	20.1	78.3	78.3	5.4	5.4	7.3	7	84	85	85	818181	805593	<0.2	1.8	1.9	1.8				
						1.0	0.5	226	28.8	28.8	7.8	7.8	20.1	20.1	78.2	78.3	5.4	5.4	7.6	6	85	87	88	818181	805593	<0.2	1.8	1.8	1.8				
						3.8	0.4	197	27.4	27.4	7.8	7.8	22.6	22.6	70.9	70.9	4.9	5.2	6.0	8	87	88	88	818181	805593	<0.2	1.7	1.7					

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 15 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
								IM9	Sunny	Moderate	12:15	7.1	Surface	1.0	0.8	119	28.3	7.4	7.4	14.0	14.0	74.0	74.0	5.3	9.8	3	83	88	822079	808821	<0.2	2.8	2.9
					Middle	1.0	0.8	122	28.3	7.4	7.4	14.0	14.0	74.0	74.0	5.3	9.7	4	84	88			<0.2	2.9	2.9	2.9							
						3.6	0.9	122	28.2	7.4	7.4	14.5	14.5	68.8	68.8	5.0	10.7	4	87	88			<0.2	3.1	2.9	2.9							
						3.6	0.9	129	28.2	7.4	7.4	14.5	14.5	68.7	68.7	5.0	10.7	3	88	88			<0.2	2.9	2.9	2.9							
					Bottom	6.1	0.6	99	27.2	7.4	7.4	21.6	21.6	48.8	48.8	3.5	17.4	3	92	88			<0.2	2.9	2.9	2.9							
						6.1	0.6	100	27.2	7.4	7.4	21.6	21.6	48.7	48.7	3.5	17.6	4	91	88			<0.2	2.8	2.9	2.9							
IM10	Sunny	Moderate	12:06	8.3	Surface	1.0	0.9	107	28.2	7.4	7.4	14.3	14.3	70.1	70.0	5.1	9.6	3	83	88	822366	809781	<0.2	2.8	2.9	2.9							
						1.0	1.0	107	28.2	7.4	7.4	14.3	14.3	69.9	69.9	5.0	9.6	4	84	88			<0.2	2.9	2.9	2.9							
					Middle	4.2	0.8	109	27.5	7.4	7.4	18.9	18.9	56.2	56.2	4.0	10.5	5	88	88			<0.2	2.9	2.9	2.9							
						4.2	0.8	109	27.5	7.4	7.4	18.9	18.9	56.1	56.1	4.0	10.5	4	88	88			<0.2	2.9	2.9	2.9							
					Bottom	7.3	0.4	106	27.3	7.4	7.4	21.0	21.0	52.0	52.0	3.7	11.3	4	91	88			<0.2	2.8	2.9	2.9							
						7.3	0.4	108	27.3	7.4	7.4	21.0	21.0	52.0	52.0	3.7	11.3	5	92	88			<0.2	2.8	2.9	2.9							
IM11	Sunny	Moderate	11:49	7.6	Surface	1.0	0.7	101	28.1	7.3	7.3	15.2	15.2	68.2	68.2	4.9	9.6	3	83	88	822049	811451	<0.2	2.9	2.9	2.9							
						1.0	0.7	109	28.1	7.3	7.3	15.2	15.2	68.2	68.2	4.9	9.5	3	83	88			<0.2	3.0	2.9	2.9							
					Middle	3.8	0.5	110	27.5	7.4	7.4	19.8	19.8	55.1	55.0	3.9	12.2	3	88	88			<0.2	2.9	2.9	2.9							
						3.8	0.6	110	27.5	7.4	7.4	19.8	19.8	54.9	54.9	3.9	12.2	3	88	88			<0.2	2.9	2.9	2.9							
					Bottom	6.6	0.4	119	27.0	7.4	7.4	23.8	23.8	50.2	50.3	3.5	17.1	3	92	88			<0.2	2.9	2.9	2.9							
						6.6	0.4	129	27.0	7.4	7.4	23.8	23.8	50.4	50.4	3.5	17.1	4	92	88			<0.2	2.8	2.9	2.9							
IM12	Sunny	Moderate	11:41	9.7	Surface	1.0	0.5	105	28.4	7.3	7.3	14.2	14.2	72.5	72.5	5.2	9.5	3	83	88	821471	812065	<0.2	3.4	2.9	3.1							
						1.0	0.5	114	28.4	7.4	7.4	14.2	14.2	72.5	72.5	5.2	9.5	3	87	88			<0.2	2.9	3.1	3.1							
					Middle	4.9	0.6	115	27.2	7.3	7.3	22.1	22.1	50.6	50.7	3.6	13.8	3	88	88			<0.2	3.0	3.1	3.1							
						4.9	0.7	121	27.2	7.3	7.3	22.1	22.1	50.7	50.7	3.6	13.9	3	87	88			<0.2	3.0	3.1	3.1							
					Bottom	8.7	0.4	149	27.0	7.4	7.4	23.3	23.3	51.3	51.4	3.6	25.8	3	92	88			<0.2	3.0	3.0	3.2							
						8.7	0.5	153	27.0	7.4	7.4	23.3	23.3	51.4	51.4	3.6	26.0	4	91	88			<0.2	3.2	3.0	3.2							
SR1A	Sunny	Moderate	11:22	5.5	Surface	1.0	-	-	28.5	7.3	7.3	14.1	14.1	74.2	74.2	5.3	9.6	3	-	-	819973	812656	-	-	-	-							
						1.0	-	-	28.5	7.3	7.3	14.1	14.1	74.1	74.1	5.3	9.6	4	-	-			-	-	-	-							
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-						
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-							
					Bottom	4.5	-	-	27.2	7.3	7.3	21.6	21.6	58.3	58.4	4.1	11.6	5	-	-	-			-	-	-	-						
						4.5	-	-	27.2	7.3	7.3	21.6	21.6	58.4	58.4	4.1	11.6	4	-	-	-			-	-	-	-						
SR2	Sunny	Moderate	11:08	4.8	Surface	1.0	0.2	68	28.6	7.1	7.1	12.6	12.6	70.7	70.8	5.1	10.3	4	83	85	821440	814182	<0.2	2.5	2.5	2.4							
						1.0	0.2	70	28.6	7.2	7.1	12.6	12.6	70.8	70.8	5.1	10.3	4	83	85			<0.2	2.5	2.5	2.5							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			<0.2	2.4	2.4	2.4						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			<0.2	2.4	2.4							
					Bottom	3.8	0.3	46	27.6	7.3	7.3	18.2	18.1	66.3	66.4	4.7	11.2	4	88	85			<0.2	2.3	2.3	2.3							
						3.8	0.3	47	27.6	7.3	7.3	18.2	18.1	66.5	66.5	4.7	11.2	4	87	85			<0.2	2.3	2.3	2.3							
SR3	Sunny	Moderate	12:28	8.4	Surface	1.0	0.2	190	28.4	7.5	7.5	14.8	14.8	70.7	70.7	5.1	9.9	4	-	-	822145	807555	-	-	-	-							
						1.0	0.3	192	28.4	7.5	7.5	14.8	14.8	70.6	70.7	5.1	9.9	4	-	-			-	-	-	-							
					Middle	4.2	0.2	202	27.3	7.4	7.4	21.0	20.9	50.2	50.2	3.5	11.2	4	-	-	-			-	-	-							
						4.2	0.2	207	27.3	7.4	7.4	20.9	20.9	50.2	50.2	3.5	11.2	4	-	-	-			-	-	-							
					Bottom	7.4	0.3	215	27.2	7.5	7.5	21.9	21.9	49.9	49.9	3.5	11.7	4	-	-	-			-	-	-							
						7.4	0.3	218	27.2	7.5	7.5	21.9	21.9	49.9	49.9	3.5	11.7	5	-	-	-			-	-	-							
SR4A	Sunny	Calm	11:25	8.8	Surface	1.0	0.1	253	27.6	7.7	7.7	21.7	21.7	73.2	73.3	5.1	5.3	6	-	-	817184	807787	-	-	-	-							
						1.0	0.1	261	27.6	7.7	7.7	21.7	21.7	73.4	73.4	5.1	5.2	7	-	-			-	-	-	-							
					Middle	4.4	0.0	144	27.8	7.8	7.8	18.2	18.2	79.1	79.0	5.6	4.8	8	-	-	-			-	-	-							
						4.4	0.0	148	27.8	7.8	7.8	18.2	18.2	78.9	79.0	5.6	4.9	8	-	-	-			-	-	-							
					Bottom	7.8	0.1	58	27.3	7.7	7.7	25.7	25.7	69.3	69.4	4.8	12.7	12	-	-	-			-	-	-							
						7.8	0.1	58	27.3	7.7	7.7	25.7	25.7	69.5	69.5	4.8	12.7	12	-	-	-			-	-	-							
SR5A	Sunny	Calm	11:09	5.4	Surface	1.0	0.1	50	29.5	7.9	7.9	14.9	14.9	93.3	93.3	6.6	3.9	5	-	-	816586	810707	-	-	-	-							
						1.0	0.1	51	29.5	7.9	7.9	14.9	14.9	93.2	93.3	6.6	4.0	5	-	-			-	-	-	-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-							
					Bottom	4.4	0.1	285	29.3	7.8	7.8	15.7	15.7	90.9	90.9	6.4	6.7	5	-	-	-			-	-	-							
						4.4	0.1	306	29.3	7.8	7.8	15.7	15.7	90.9	90.9	6.4	6.6	6	-	-	-			-	-	-							
SR6	Sunny	Calm	10:44	5.0	Surface	1.0	0.1	10	28.2	7.8	7.8	15.0	15.0	85.9	85.9	6.2																	



Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring

Water Quality Monitoring Results on **15 June 19** during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
						Speed (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA				
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA		
C1	Sunny	Moderate	17:47	8.2	Surface	1.0	0.4	58	28.2	28.2	7.8	7.8	19.6	19.6	81.4	81.4	5.7	5.7	4.1	4.1	5	5	85	85			<0.2	<0.2	1.8	1.8					
						1.0	0.4	64	28.2	28.2	7.8	7.8	19.6	19.6	81.4	81.4	5.7	5.7	4.1	4.1	4	4	85	85			<0.2	<0.2	1.8	1.8					
					Middle	4.1	0.4	43	28.3	28.3	7.8	7.8	20.1	20.1	82.3	82.3	5.7	5.7	6.7	6.7	6	6	89	89			<0.2	<0.2	1.8	1.8					
						4.1	0.4	46	28.3	28.3	7.8	7.8	20.1	20.1	82.3	82.3	5.7	5.7	6.5	6.5	6	6	89	89			<0.2	<0.2	1.7	1.7					
					Bottom	7.2	0.1	18	28.3	28.3	7.8	7.8	20.2	20.2	84.2	84.2	5.9	5.9	11.2	11.2	5	5	90	90			<0.2	<0.2	1.8	1.8					
						7.2	0.1	19	28.3	28.3	7.8	7.8	20.2	20.2	84.3	84.3	5.9	5.9	11.0	11.0	6	6	90	90			<0.2	<0.2	1.7	1.7					
C2	Sunny	Moderate	16:52	8.5	Surface	1.0	1.2	58	27.8	27.8	7.2	7.2	11.9	11.9	78.3	78.3	5.4	5.4	11.3	11.3	6	6	85	85			<0.2	<0.2	2.9	2.9					
						1.0	1.3	54	27.8	27.8	7.2	7.2	11.9	11.9	78.2	78.2	5.4	5.4	11.2	11.2	5	5	86	86			<0.2	<0.2	3.0	3.0					
					Middle	4.3	0.5	57	27.4	27.4	7.4	7.4	20.5	20.5	70.9	70.9	4.9	4.9	10.1	10.1	6	6	89	89			<0.2	<0.2	3.1	3.1					
						4.3	0.6	59	27.4	27.4	7.4	7.4	20.5	20.5	70.9	70.9	4.9	4.9	10.2	10.2	6	6	89	89			<0.2	<0.2	3.0	3.0					
					Bottom	7.5	0.1	55	27.3	27.3	7.5	7.5	21.4	21.4	58.9	58.9	4.1	4.1	10.6	10.6	6	6	93	93			<0.2	<0.2	3.0	3.0					
						7.5	0.1	55	27.3	27.3	7.5	7.5	21.4	21.4	58.9	58.9	4.1	4.1	10.5	10.5	5	5	94	94			<0.2	<0.2	3.0	3.0					
C3	Sunny	Moderate	18:34	10.8	Surface	1.0	0.4	242	28.0	28.0	7.5	7.5	19.0	19.0	67.4	67.4	4.8	4.8	9.8	9.8	4	4	86	86			<0.2	<0.2	2.5	2.5					
						1.0	0.4	262	28.0	28.0	7.5	7.5	19.0	19.0	67.4	67.4	4.8	4.8	9.8	9.8	4	4	86	86			<0.2	<0.2	2.3	2.3					
					Middle	5.4	0.4	236	27.3	27.3	7.5	7.5	22.9	22.9	58.8	58.8	4.1	4.1	9.6	9.6	4	4	89	89			<0.2	<0.2	2.5	2.5					
						5.4	0.4	245	27.3	27.3	7.5	7.5	22.9	22.9	58.9	58.9	4.1	4.1	9.6	9.6	5	5	89	89			<0.2	<0.2	2.3	2.3					
					Bottom	9.8	0.1	157	26.4	26.4	7.5	7.5	27.9	27.9	50.9	50.9	3.5	3.5	10.6	10.6	5	5	93	93			<0.2	<0.2	2.5	2.5					
						9.8	0.2	161	26.4	26.4	7.5	7.5	27.9	27.9	51.0	51.0	3.5	3.5	10.5	10.5	6	6	92	92			<0.2	<0.2	2.2	2.2					
IM1	Sunny	Moderate	17:27	5.4	Surface	1.0	0.1	57	28.3	28.3	7.8	7.8	20.9	20.9	82.8	82.8	5.8	5.8	6.7	6.7	6	6	84	84			<0.2	<0.2	1.7	1.7					
						1.0	0.1	56	28.2	28.2	7.8	7.8	20.9	20.9	82.7	82.7	5.7	5.7	6.2	6.2	5	5	84	84			<0.2	<0.2	1.7	1.7					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	4.4	0.0	62	28.0	28.0	7.8	7.8	23.2	23.2	80.0	80.0	5.5	5.5	7.2	7.2	7	7	88	88			<0.2	<0.2	1.8	1.8					
						4.4	0.0	69	28.0	28.0	7.8	7.8	23.2	23.2	80.3	80.3	5.5	5.5	7.5	7.5	7	7	88	88			<0.2	<0.2	1.8	1.8					
IM2	Sunny	Moderate	17:23	6.9	Surface	1.0	0.4	62	28.3	28.3	7.8	7.8	18.5	18.5	79.9	79.9	5.6	5.6	10.3	10.3	8	8	85	85			<0.2	<0.2	2.0	2.0					
						1.0	0.4	62	28.3	28.3	7.8	7.8	18.5	18.5	79.9	79.9	5.6	5.6	9.9	9.9	8	8	85	85			<0.2	<0.2	1.9	1.9					
					Middle	3.5	0.1	65	27.9	27.9	7.8	7.8	21.1	21.1	73.9	73.9	5.2	5.2	13.1	13.1	9	9	88	88			<0.2	<0.2	2.0	2.0					
						3.5	0.2	68	27.9	27.9	7.8	7.8	21.1	21.1	73.7	73.7	5.1	5.1	13.2	13.2	9	9	88	88			<0.2	<0.2	1.9	1.9					
					Bottom	5.9	0.1	75	27.9	27.9	7.8	7.8	22.1	22.1	72.8	72.8	5.1	5.1	7.1	7.1	10	10	90	90			<0.2	<0.2	1.9	1.9					
						5.9	0.1	76	27.9	27.9	7.8	7.8	22.1	22.1	73.1	73.0	5.1	5.1	7.1	7.1	11	11	90	90			<0.2	<0.2	2.0	2.0					
IM3	Sunny	Moderate	17:16	7.0	Surface	1.0	0.9	52	28.5	28.5	7.8	7.8	16.6	16.6	81.3	81.3	5.8	5.8	7.1	7.1	8	8	85	85			<0.2	<0.2	2.4	2.4					
						1.0	0.9	56	28.4	28.4	7.8	7.8	16.6	16.6	81.2	81.2	5.8	5.8	7.1	7.1	7	7	85	85			<0.2	<0.2	1.6	1.6					
					Middle	3.5	0.4	59	28.3	28.3	7.8	7.8	17.8	17.8	82.2	82.2	5.8	5.8	11.9	11.9	12	12	88	88			<0.2	<0.2	1.7	1.7					
						3.5	0.4	62	28.3	28.3	7.8	7.8	17.8	17.8	82.1	82.1	5.8	5.8	11.9	11.9	11	11	88	88			<0.2	<0.2	1.7	1.7					
					Bottom	6.0	0.1	71	28.3	28.3	7.8	7.8	19.2	19.2	81.7	81.7	5.7	5.7	16.0	16.0	13	13	90	90			<0.2	<0.2	1.9	1.9					
						6.0	0.1	75	28.2	28.2	7.8	7.8	19.2	19.2	81.9	81.8	5.7	5.7	16.1	16.1	13	13	90	90			<0.2	<0.2	1.8	1.8					
IM4	Sunny	Moderate	17:08	7.4	Surface	1.0	1.5	48	28.8	28.8	7.8	7.8	13.7	13.7	87.1	87.1	6.2	6.2	3.4	3.4	4	4	85	85			<0.2	<0.2	1.7	1.7					
						1.0	1.6	48	28.8	28.8	7.8	7.8	13.7	13.7	87.1	87.1	6.2	6.2	3.4	3.4	4	4	86	86			<0.2	<0.2	1.9	1.9					
					Middle	3.7	1.4	52	28.8	28.8	7.8	7.8	13.7	13.7	87.3	87.3	6.2	6.2	3.1	3.1	5	5	87	87			<0.2	<0.2	1.8	1.8					
						3.7	1.5	46	28.8	28.8	7.8	7.8	13.7	13.7	87.3	87.3	6.2	6.2	3.1	3.1	4	4	88	88			<0.2	<0.2	1.8	1.8					
					Bottom	6.4	0.9	65	28.7	28.7	7.9	7.9	14.6	14.6	87.4	87.4	6.2	6.2	6.0	6.0	5	5	89	89			<0.2	<0.2	1.8	1.8					
						6.4	1.0	63	28.7	28.7	7.9	7.9	14.6	14.6	87.4	87.4	6.2	6.2	6.0	6.0	4	4	90	90			<0.2	<0.2	1.8	1.8					
IM5	Sunny	Moderate	17:03	6.7	Surface	1.0	1.2	24	28.4	28.4	7.8	7.8	14.7	14.7	79.9	79.9	5.7	5.7	9.5	9.5	4	4	84	84			<0.2	<0.2	1.8	1.8					
						1.0	1.2	25	28.4	28.4	7.8	7.8	14.7	14.7	79.8	79.8	5.7	5.7	9.5	9.5	4	4	85	85			<0.2	<0.2	1.9	1.9					
					Middle	3.4	1.1	24	28.3	28.3	7.8	7.8	14.7	14.7	79.3	79.3	5.7	5.7	7.5	7.5	5	5	87	87			<0.2	<0.2	1.8	1.8					
						3.4	1.1	24	28.3	28.3	7.8	7.8	14.7	14.7	79.3	79.3	5.7	5.7	7.8	7.8	5	5	88	88			<0.2	<0.2	2.4	2.4					
					Bottom	5.7	0.8	24	28.3	28.3	7.9	7.8	16.3	16.3	80.8	81.0	5.8	5.8	5.9	5.9	6	6	89	89			<0.2	<0.2	2.4	2.4					
						5.7	0.8	25	28.3	28.3	7.8	7.8	16.3	16.3	81.2	81.2	5.8	5.8	5.9	5.9	6	6	89	89			<0.2	<0.2	2.4	2.4					
IM6	Sunny	Moderate	16:58	6.9	Surface	1.0	1.1	23	28.2	28.2	7.8	7.8	15.4	15.4	82.0	82.1	5.9	5.9	8.1	8.1	5	5	84	84			<0.2	<0.2	2.5	2.5					
						1.0	1.1	25	28.2	28.2	7.8	7.8	15.4	15.4	82.0	82.1	5.9	5.9	8.2	8.2	4	4	85	85			<0.2	<0.2	2.2	2.2					
					Middle	3.5	1.0	23	28.3	28.3	7.8	7.8	15.6	15.6	82.0	82.0	5.9	5.9	12.8	12.8	4	4	88	88			<0.2	<0.2	2.3	2.3					
						3.5	1.1	24	28.3	28.3	7.8	7.8	15.6	15.6	81.9	81.9	5.9	5.9	13.2	13.2	5	5	88	88			<0.2	<0.2	2.4	2.4					
					Bottom	5.9	0.7	22	28.2	28.2	7.8	7.8	17.4	17.4	78.7	79.0	5.6	5.6	7.5	7.5	6	6	89	89			<0.2	<0.2	2.7	2.7					
						5.9	0.7	22	28.1	28.1	7.8	7.8	17.4	17																					

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 15 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
IM9	Sunny	Moderate	17:17	7.3	Surface	1.0	0.5	311	28.3	28.3	7.4	7.4	13.0	13.0	69.0	69.0	5.0	10.4	4	86	90	822076	808833	<0.2	2.8	<0.2	2.8				
						1.0	0.5	319	28.3	7.4	7.4	13.0	13.0	68.9	67.5	5.0	10.4	5	86	90	86	89	93	93	<0.2			2.8			
						3.7	0.5	285	28.1	7.4	7.4	14.5	14.5	67.4	67.5	4.9	10.6	6	89	90	93	93	<0.2	2.6							
					Middle	3.7	0.5	298	28.1	7.4	7.4	14.5	14.5	67.5	67.5	4.9	10.6	5	90	90	93	93	<0.2	2.6							
						6.3	0.3	293	28.1	7.4	7.4	14.9	14.9	68.5	68.6	4.9	11.8	6	93	93	93	93	<0.2	2.8							
						6.3	0.3	299	28.1	7.4	7.4	14.9	14.9	68.7	68.7	4.9	11.8	5	93	93	93	93	<0.2	2.8							
					Bottom	6.3	0.3	293	28.1	7.4	7.4	14.9	14.9	68.5	68.6	4.9	11.8	6	93	93	93	93	<0.2	2.6							
						6.3	0.3	299	28.1	7.4	7.4	14.9	14.9	68.7	68.7	4.9	11.8	5	93	93	93	93	<0.2	2.8							
						6.3	0.3	299	28.1	7.4	7.4	14.9	14.9	68.7	68.7	4.9	11.8	5	93	93	93	93	<0.2	2.8							
IM10	Sunny	Moderate	17:25	7.5	Surface	1.0	0.4	294	28.6	28.6	7.5	7.5	13.1	13.1	74.8	74.8	5.4	9.8	4	85	90	822380	809784	<0.2	2.3	<0.2	2.3				
						1.0	0.4	285	28.6	7.5	7.5	13.1	13.1	74.7	74.7	5.4	9.8	3	86	90	90	90	<0.2	2.3							
						3.8	0.3	242	27.5	7.5	7.5	19.7	19.7	55.6	55.6	3.9	10.4	3	90	90	93	93	<0.2	2.4							
					Middle	3.8	0.3	245	27.5	7.5	7.5	19.7	19.7	55.6	55.6	3.9	10.4	4	89	90	93	93	<0.2	2.3							
						6.5	0.2	292	27.4	7.5	7.5	20.4	20.4	55.5	55.5	3.9	11.0	3	93	93	93	93	<0.2	2.3							
						6.5	0.2	293	27.4	7.5	7.5	20.4	20.4	55.6	55.6	3.9	11.1	3	94	94	94	94	<0.2	2.2							
					Bottom	6.5	0.2	292	27.4	7.5	7.5	20.4	20.4	55.5	55.5	3.9	11.0	3	93	93	93	93	<0.2	2.3							
						6.5	0.2	293	27.4	7.5	7.5	20.4	20.4	55.6	55.6	3.9	11.1	3	94	94	94	94	<0.2	2.2							
						6.5	0.2	293	27.4	7.5	7.5	20.4	20.4	55.6	55.6	3.9	11.1	3	94	94	94	94	<0.2	2.2							
IM11	Sunny	Moderate	17:35	8.3	Surface	1.0	1.1	280	28.5	28.5	7.5	7.5	14.3	14.3	73.1	73.1	5.2	10.0	4	85	90	822038	811447	<0.2	2.4	<0.2	2.3				
						1.0	1.1	283	28.5	7.5	7.5	14.3	14.3	73.1	73.1	5.2	10.0	4	86	90	90	90	<0.2	2.3							
						4.2	0.9	242	27.6	7.4	7.4	18.8	18.8	56.8	56.9	4.0	10.9	4	90	90	93	93	<0.2	2.3							
					Middle	4.2	0.9	244	27.6	7.4	7.4	18.8	18.8	56.9	56.9	4.0	10.9	4	90	90	93	93	<0.2	2.3							
						7.3	0.6	286	27.4	7.5	7.5	21.1	21.1	55.1	55.2	3.9	14.2	4	93	93	93	93	<0.2	2.4							
						7.3	0.6	270	27.4	7.5	7.5	21.1	21.1	55.2	55.2	3.9	14.2	5	94	94	94	94	<0.2	2.3							
					Bottom	7.3	0.6	286	27.4	7.5	7.5	21.1	21.1	55.1	55.2	3.9	14.2	4	93	93	93	93	<0.2	2.4							
						7.3	0.6	270	27.4	7.5	7.5	21.1	21.1	55.2	55.2	3.9	14.2	5	94	94	94	94	<0.2	2.3							
						7.3	0.6	270	27.4	7.5	7.5	21.1	21.1	55.2	55.2	3.9	14.2	5	94	94	94	94	<0.2	2.3							
IM12	Sunny	Moderate	17:40	7.8	Surface	1.0	0.9	277	28.1	28.1	7.5	7.5	15.9	15.9	69.3	69.4	4.8	10.5	4	85	90	821474	812049	<0.2	1.8	<0.2	1.8				
						1.0	1.0	267	28.1	7.5	7.5	15.9	15.9	69.5	69.5	4.8	10.5	4	86	90	90	90	<0.2	1.7							
						3.9	0.8	231	27.6	7.5	7.5	19.2	19.2	61.0	61.1	4.4	13.0	4	90	90	93	93	<0.2	1.9							
					Middle	3.9	0.8	226	27.6	7.5	7.5	19.2	19.2	61.2	61.1	4.4	13.0	4	90	90	93	93	<0.2	1.7							
						6.8	0.4	265	27.4	7.5	7.5	20.4	20.4	55.0	55.1	3.9	15.8	4	93	93	93	93	<0.2	1.7							
						6.8	0.4	250	27.4	7.5	7.5	20.4	20.4	55.2	55.2	3.9	15.8	4	94	94	94	94	<0.2	1.7							
					Bottom	6.8	0.4	265	27.4	7.5	7.5	20.4	20.4	55.0	55.1	3.9	15.8	4	93	93	93	93	<0.2	1.7							
						6.8	0.4	250	27.4	7.5	7.5	20.4	20.4	55.2	55.2	3.9	15.8	4	94	94	94	94	<0.2	1.7							
						6.8	0.4	250	27.4	7.5	7.5	20.4	20.4	55.2	55.2	3.9	15.8	4	94	94	94	94	<0.2	1.7							
SR1A	Sunny	Moderate	17:59	5.6	Surface	1.0	-	-	28.4	28.4	7.5	7.5	16.0	16.0	68.7	68.7	4.9	10.0	4	-	-	819981	812661	-	-	-	-				
						1.0	-	-	28.4	28.4	7.5	7.5	16.0	16.0	68.7	68.7	4.9	10.0	4	-	-	-	-	-	-						
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-			
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
						4.6	-	-	27.7	27.7	7.5	7.5	18.7	18.7	61.9	61.9	4.4	11.1	4	-	-	-	-	-	-			-	-	-	
						4.6	-	-	27.7	27.7	7.5	7.5	18.7	18.7	61.9	61.9	4.4	11.2	5	-	-	-	-	-	-			-	-	-	
					Bottom	4.6	-	-	27.7	27.7	7.5	7.5	18.7	18.7	61.9	61.9	4.4	11.1	4	-	-	-	-	-	-			-	-	-	-
						4.6	-	-	27.7	27.7	7.5	7.5	18.7	18.7	61.9	61.9	4.4	11.2	5	-	-	-	-	-	-			-	-	-	-
						4.6	-	-	27.7	27.7	7.5	7.5	18.7	18.7	61.9	61.9	4.4	11.2	5	-	-	-	-	-	-			-	-	-	-
SR2	Sunny	Moderate	18:11	5.0	Surface	1.0	0.8	246	28.4	28.4	7.5	7.5	15.9	15.9	68.0	67.9	4.8	10.2	4	86	90	821471	814181	<0.2	1.6	<0.2	1.7				
						1.0	0.9	252	28.4	7.5	7.5	15.9	15.9	67.8	67.8	4.8	10.2	3	85	90	90	90	<0.2	1.7							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	
						4.0	0.2	277	27.7	7.5	7.5	18.8	18.8	61.0	61.1	4.3	11.1	4	89	90	93	93	<0.2	1.8							
						4.0	0.2	281	27.7	7.5	7.5	18.8	18.8	61.2	61.1	4.3	11.0	4	89	90	93	93	<0.2	1.8							
					Bottom	4.0	0.2	277	27.7	7.5	7.5	18.8	18.8	61.0	61.1	4.3	11.1	4	89	90	93	93	<0.2	1.8							
						4.0	0.2	281	27.7	7.5	7.5	18.8	18.8	61.2	61.1	4.3	11.0	4	89	90	93	93	<0.2	1.8							
						4.0	0.2	281	27.7	7.5	7.5	18.8	18.8	61.2	61.1	4.3	11.0	4	89	90	93	93	<0.2	1.8							
SR3	Sunny	Moderate	17:06	8.8	Surface	1.0	1.1	57	28.3	28.3	7.3	7.3	10.9	10.9	67.8	67.8	5.0	10.8	4	-	-	822145	807580	-	-	-	-				
						1.0	1.1	59	28.3	7.3	7.3	10.9	10.9	67.7	67.7	5.0	10.7	4	-	-	-	-									
						4.4	0.5	66	27.7	7.4	7.4	17.9	17.9	57.8	57.8	4.1	10.7	5	-	-	-	-									
					Middle	4.4	0.6	72	27.7	7.4	7.4	17.9	17.9	57.8	57.8	4.1	10.7	5	-	-	-	-									
						7.8	0.2	39	27.4	7.4	7.4	20.3	20.3	55.3	55.4	3.9	11.1	5	-	-	-	-									
						7.8	0.2	41	27.4	7.4	7.4	20.3	20.3	55.4	55.4	3.9	11.1	6	-	-	-	-									
					Bottom	7.8	0.2	39	27.4	7.4	7.4	20.3	20.3	55.3	55.4	3.9	11.1	5	-	-	-	-									
						7.8	0.2	41	27.4</																						

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring

Water Quality Monitoring Results on 18 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA				
C1	Rainy	Moderate	13:00	8.6	Surface	1.0	0.4	188	28.2	28.2	7.9	7.9	16.2	16.2	89.8	89.8	6.4	6.4	5.3	5	86	88	815610	804257	<0.2	1.6	<0.2	1.7							
						1.0	0.5	196	28.2	7.9	7.9	16.2	16.2	89.7	89.7	6.4	6.4	5.2	4	86	86														
						4.3	0.3	172	28.1	8.0	8.0	16.8	16.8	88.9	88.9	6.3	6.4	5	89	89															
					Middle	4.3	0.3	181	28.1	8.0	8.0	16.8	16.8	88.8	88.8	6.3	6.7	4	89	89															
						7.6	0.2	151	27.8	7.9	7.9	20.5	20.5	85.0	85.1	6.0	6.7	7	90	90															
						7.6	0.2	164	27.8	8.0	8.0	20.5	20.5	85.2	85.2	6.0	6.6	6	90	90															
					C2	Cloudy	Moderate	11:58	11.8	Surface	1.0	0.5	177	27.8	27.8	7.7	7.7	9.4	9.4	91.8	91.8	6.8	6.8	4.6	4	85			87	825681	806926	<0.2	2.0	<0.2	2.0
											1.0	0.5	192	27.8	7.7	7.7	9.4	9.4	91.7	91.7	6.8	4.6	5	84	84										
											5.9	0.5	162	28.3	7.7	7.7	10.4	10.4	91.4	91.4	6.7	5.0	4	87	87										
Middle	5.9	0.5	178	28.3						7.7	7.7	10.4	10.4	91.3	91.3	6.7	5.0	5	89	89															
	10.8	0.5	144	27.6						7.7	7.7	15.2	15.2	82.8	82.8	6.0	7.3	9	89	89															
	10.8	0.5	151	27.6						7.7	7.7	15.2	15.2	82.8	82.8	6.0	7.3	8	89	89															
C3	Rainy	Moderate	13:43	12.3						Surface	1.0	0.5	97	27.2	27.2	7.9	7.9	16.9	16.9	89.2	89.1	6.4	6.0	10	85	88	822123	817788	<0.2	2.0	<0.2	2.0			
											1.0	0.5	101	27.2	7.9	7.9	16.9	16.9	88.9	88.9	6.4	6.0	11	85	85										
											6.2	0.2	64	27.2	7.8	7.8	18.7	18.7	88.1	88.1	6.3	3.1	11	87	87										
					Middle	6.2	0.2	67	27.2	7.8	7.8	18.7	18.7	88.1	88.1	6.3	3.1	10	89	89															
						11.3	0.2	81	27.0	7.8	7.8	20.3	20.2	87.1	87.2	6.2	8.1	11	90	90															
						11.3	0.2	86	27.0	7.8	7.8	20.1	20.2	87.3	87.3	6.2	8.3	12	92	92															
					IM1	Cloudy	Moderate	12:34	5.7	Surface	1.0	0.3	204	27.9	27.9	7.9	7.9	17.9	17.9	87.5	87.4	6.2	8.8	6	82	86	817971	807119	<0.2	1.6			<0.2	1.6	
											1.0	0.3	210	27.9	7.9	7.9	17.9	17.9	87.3	87.3	6.2	8.6	5	83	83										
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	4.7	0.1	173	27.8						7.9	7.9	19.7	19.7	87.7	87.8	6.2	7.1	7	89	89															
	4.7	0.2	187	27.8						7.9	7.9	19.7	19.7	87.9	87.9	6.2	7.4	8	90	90															
IM2	Cloudy	Moderate	12:29	7.8						Surface	1.0	0.4	214	28.0	28.0	7.9	7.9	17.0	17.0	86.4	86.1	6.2	11.9	7	87	89	818169	806187	<0.2	1.6	<0.2	1.6			
											1.0	0.4	227	27.9	7.9	7.9	17.0	17.0	85.8	86.1	6.1	11.1	6	88	88										
											3.9	0.3	198	27.8	7.9	7.9	18.9	18.9	83.0	82.9	5.9	10.1	8	89	89										
					Middle	3.9	0.3	204	27.7	7.9	7.9	18.9	18.9	82.8	82.8	5.9	10.4	9	89	89															
						6.8	0.2	142	27.6	7.9	7.9	21.2	21.1	83.2	83.4	5.8	7.9	9	90	90															
						6.8	0.2	143	27.6	7.9	7.9	21.1	21.1	83.5	83.5	5.9	7.9	8	90	90															
					IM3	Cloudy	Moderate	12:24	7.9	Surface	1.0	0.4	230	28.0	28.0	7.9	7.9	19.0	19.0	85.7	85.7	6.0	8.8	10	86	88	818796	805600	<0.2	1.5			<0.2	1.5	
											1.0	0.4	241	28.0	7.9	7.9	19.0	19.0	85.7	85.7	6.0	8.9	9	86	86										
											4.0	0.4	185	27.8	7.9	7.9	19.9	19.9	83.1	83.0	5.9	15.1	11	88	88										
Middle	4.0	0.4	202	27.8						7.9	7.9	19.9	19.9	82.9	83.0	5.8	14.8	10	88	88															
	6.9	0.4	156	27.7						7.9	7.9	21.3	21.3	81.9	82.0	5.7	10.8	14	90	90															
	6.9	0.4	161	27.7						7.9	7.9	21.3	21.3	82.0	82.0	5.7	10.8	13	90	90															
IM4	Cloudy	Moderate	12:18	8.6						Surface	1.0	0.6	179	27.7	27.7	7.9	7.9	22.0	22.0	80.0	79.9	5.6	12.0	12	84	87	819723	804600	<0.2	1.4	<0.2	1.4			
											1.0	0.6	192	27.7	7.9	7.9	22.0	22.0	79.8	79.8	5.6	12.4	12	85	85										
											4.3	0.5	171	27.7	7.9	7.9	22.1	22.1	78.7	78.7	5.5	12.8	12	87	87										
					Middle	4.3	0.6	186	27.7	7.9	7.9	22.1	22.1	78.7	78.7	5.5	12.8	12	88	88															
						7.6	0.3	146	27.8	7.9	7.8	23.0	23.0	78.8	78.9	5.5	14.0	16	90	90															
						7.6	0.3	156	27.8	7.8	7.8	23.0	23.0	78.9	78.9	5.5	14.0	17	90	90															
					IM5	Cloudy	Moderate	12:11	8.3	Surface	1.0	0.8	243	28.2	28.2	7.9	7.9	15.4	15.4	89.7	89.6	6.4	3.3	3	84	88	820724	804875	<0.2	1.9			<0.2	1.9	
											1.0	0.8	250	28.2	7.9	7.9	15.4	15.4	89.4	89.4	6.4	3.5	4	84	84										
											4.2	0.5	209	28.0	7.9	7.9	17.0	17.0	87.4	87.3	6.2	4.5	6	88	88										
Middle	4.2	0.6	225	28.0						7.9	7.9	17.0	17.0	87.2	87.3	6.2	4.5	6	88	88															
	7.3	0.4	208	27.8						7.9	7.9	19.5	19.5	84.2	84.4	5.9	8.6	8	90	90															
	7.3	0.4	220	27.8						7.9	7.9	19.5	19.5	84.6	84.6	6.0	8.6	7	90	90															
IM6	Cloudy	Moderate	12:05	8.0						Surface	1.0	0.6	257	28.1	28.1	7.9	7.9	15.2	15.2	88.6	88.5	6.4	7.4	6	85	89	821065	805820	<0.2	1.8	<0.2	1.8			
											1.0	0.6	263	28.0	7.9	7.9	15.2	15.2	88.3	88.3	6.4	7.7	5	85	85										
											4.0	0.6	255	27.7	7.9	7.9	17.7	17.7	85.5	85.5	6.1	8.1	6	89	89										
					Middle	4.0	0.6	258	27.7	7.9	7.9	17.7	17.7	85.4	85.5	6.1	8.5	5	89	89															
						7.0	0.4	209	27.7	7.9	7.9	19.2	19.2	80.3	80.4	5.7	6.8	7	90	90															
						7.0	0.4	216	27.7	7.9	7.9	19.2	19.2	80.4	80.4	5.7	6.8	8	90	90															
					IM7	Cloudy	Moderate	11:59	8.6	Surface	1.0	0.3	273	28.7	28.7	7.9	7.9	15.6	15.6	89.1	89.1	6.3	9.8	4	85	88	821357	806831	<0.2	1.7			<0.2	1.7	
											1.0	0.4	290	28.7	7.9	7.9	15.6	15.6	89.0	89.1	6.3	9.9	4	86	86										
											4.3	0.3	232	28.7	7.9	7.9	16.3	16.3	88.3	88.3	6.2	9.6	4	88	88										
Middle	4.3	0.4	237	28.7						7.9	7.9	16.3	16.3	88.2	88.3	6.2	9.7	6	88	88															
	7.6	0.2	184	28.6						8.0	8.0	18.0	18.0	83.9	84.0	5.9	7.5	7	89	89															
	7.6	0.2	197	28.6						8.0	8.0	18.0	18.0	84.1	84.0	5.9	7.5	7	90	90															
IM8	Cloudy	Moderate	12:28	7.8						Surface	1.0	0.1	275	28.1	28.1	7.8	7.8	12.4	12.4	91.7	91.7	6.7	4.2	4	85	88	821852	808161	<0.2	1.9	<0.2	1.9			
											1.0	0.1	299	28.0	7.8	7.8	12.4	12.4	91.6	91.6	6.7	4.2	4	85	85										
											3.9	0.1	246	27.4	7.8	7.8	16.0	16.0	85.2	85.1	6.2	4.4	5	88	88										
					Middle	3.9	0.1	260	27.4	7.8	7.8	16.0	16.0	84.9	84.9	6.2	4.4	5	87	87															
						6.8	0.0	99	27.2	7.8	7.8	18.5	18.5	82.4	82.6	5.9	6.1	7	90	90															
						6.8	0.0	100	27.2	7.8	7.8	18.5	18.5	82.7	82.7	5.9	6.1	6	89	89															

DA: Depth-Averaged  
 Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher  
 Value exceeding Action Level is underlined; Value exceeding Limit Level is **bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring

Water Quality Monitoring Results on 18 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)										
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA							
IM9	Rainy	Moderate	12:35	7.2	Surface	1.0	0.2	107	27.7	27.7	7.8	7.8	11.9	11.9	92.2	92.2	6.8	6.8	4.8	4	4	84	87	87	822099	808834	<0.2	2.0	<0.2	1.9								
						1.0	0.3	110	27.7	27.7	7.8	7.8	11.9	11.9	92.1	91.6	6.8	6.7	4.8	4	4	85	87				<0.2	2.0	<0.2	1.8								
						3.6	0.4	112	27.7	27.7	7.8	7.8	12.5	12.5	91.6	91.5	6.7	6.7	8.9	4	4	87	89				<0.2	2.0	<0.2	2.4								
					3.6	0.5	121	27.7	27.7	7.8	7.8	12.5	12.5	91.5	91.6	6.7	6.7	8.9	4	4	87	89	<0.2				2.0	<0.2	1.8									
					6.2	0.3	94	27.3	27.3	7.8	7.8	16.5	16.5	85.6	85.7	6.2	6.2	5.2	5	5	89	90	<0.2				1.8	<0.2	1.8									
					6.2	0.3	101	27.3	27.3	7.8	7.8	16.5	16.5	85.8	85.7	6.2	6.2	5.2	5	5	89	90	<0.2				1.8	<0.2	1.8									
					IM10	Rainy	Moderate	12:42	7.6	Surface	1.0	0.8	110	27.5	27.5	7.8	7.8	11.6	11.6	90.5	90.5	6.7	6.7				4.0	4	4	85	87	87	822387	809776	<0.2	1.9	<0.2	2.0
											1.0	0.9	110	27.5	27.5	7.8	7.8	11.6	11.6	90.5	90.5	6.7	6.7				4.0	4	4	83	87				<0.2	1.9	<0.2	2.1
											3.8	0.9	107	27.5	27.5	7.8	7.8	12.2	12.2	88.8	88.8	6.6	6.6				3.8	4	4	87	89				<0.2	2.1	<0.2	1.9
3.8	0.9	109	27.5	27.5						7.8	7.8	12.2	12.2	88.7	88.7	6.6	6.6	3.8	4	4	89	90	<0.2	2.4	<0.2	1.9												
6.6	0.7	102	27.3	27.3						7.8	7.8	16.0	16.0	83.4	83.5	6.0	6.0	4.8	5	5	90	88	<0.2	1.9	<0.2	2.2												
6.6	0.7	104	27.3	27.3						7.8	7.8	16.0	16.0	83.5	83.5	6.0	6.0	4.8	5	5	88	88	<0.2	2.2	<0.2	2.2												
IM11	Rainy	Moderate	12:51	7.4						Surface	1.0	0.9	117	27.8	27.8	7.8	7.8	14.1	14.1	90.8	90.8	6.6	6.6	3.8	4	4	85	89	88	822053	811481				<0.2	1.9	<0.2	2.2
											1.0	1.0	121	27.8	27.8	7.8	7.8	14.1	14.1	90.8	90.5	6.6	6.7	3.8	4	4	85	89							<0.2	2.0	<0.2	2.3
											3.7	0.6	110	27.6	27.6	7.8	7.8	12.6	12.6	88.5	88.4	6.5	6.5	3.8	4	4	89	90							<0.2	2.3	<0.2	2.4
					3.7	0.6	110	27.6	27.6	7.8	7.8	12.6	12.6	88.2	88.2	6.5	6.5	3.8	4	4	90	88	<0.2	2.3	<0.2	2.3												
					6.4	0.5	122	27.3	27.3	7.8	7.8	16.1	16.1	84.5	84.5	6.1	6.1	5.9	7	6	90	88	<0.2	2.3	<0.2	2.3												
					6.4	0.6	129	27.2	27.2	7.8	7.8	16.1	16.1	84.5	84.5	6.1	6.1	5.9	6	6	88	88	<0.2	2.3	<0.2	2.3												
					IM12	Rainy	Moderate	12:58	8.2	Surface	1.0	0.7	109	27.4	27.4	7.8	7.8	13.6	13.6	89.4	89.5	6.6	6.6	4.4	4	4	85	84				88	821440	812045	<0.2	2.3	<0.2	2.2
											1.0	0.7	109	27.4	27.4	7.8	7.8	13.6	13.6	89.5	89.5	6.6	6.6	4.5	4	4	84	87							<0.2	2.2	<0.2	1.8
											4.1	0.5	98	27.5	27.5	7.8	7.8	14.1	14.1	89.9	89.9	6.6	6.6	5.4	4	5	87	91							<0.2	2.3	<0.2	2.3
4.1	0.5	99	27.5	27.5						7.8	7.8	14.1	14.1	89.8	89.8	6.6	6.6	5.4	4	4	91	90	<0.2	2.3	<0.2	2.2												
7.2	0.4	96	27.3	27.3						7.8	7.8	16.0	16.0	84.0	83.9	6.1	6.1	7.8	7	6	90	88	<0.2	2.2	<0.2	2.2												
7.2	0.4	100	27.2	27.2						7.8	7.8	16.0	16.0	83.8	83.8	6.1	6.1	7.9	6	6	90	88	<0.2	2.2	<0.2	2.2												
SR1A	Rainy	Moderate	13:12	4.8						Surface	1.0	-	-	27.5	27.5	7.9	7.9	16.9	17.0	90.9	90.7	6.5	6.5	4.1	4	5	-	-	-	819978	812658				-	-	-	-
											1.0	-	-	27.4	27.4	7.9	7.9	17.0	17.0	90.5	90.5	6.5	6.5	4.2	5	5	-	-							-	-		
											2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
					2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-					
					3.8	-	-	27.3	27.3	7.9	7.9	19.1	19.1	87.1	87.5	6.2	6.3	7.8	4	4	-	-	-	-	-	-	-	-										
					3.8	-	-	27.3	27.3	7.9	7.9	19.1	19.1	87.8	87.5	6.2	6.3	7.8	5	5	-	-	-	-	-	-	-	-				-						
					SR2	Rainy	Moderate	13:24	4.5	Surface	1.0	0.8	111	27.5	27.5	7.8	7.8	12.3	12.3	93.1	93.1	6.9	6.9	4.7	5	4	85	85				87	821471	814189	<0.2	2.2	<0.2	2.3
											1.0	0.9	113	27.5	27.5	7.8	7.8	12.3	12.3	93.1	93.1	6.9	6.9	4.7	4	4	85	85							<0.2	2.3	<0.2	2.2
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
-	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3.5	0.5	122	27.6	27.6						7.8	7.8	12.6	12.6	93.7	93.8	6.9	6.9	3.9	4	4	90	88	<0.2	2.2	<0.2	2.2												
3.5	0.5	128	27.6	27.6						7.8	7.8	12.6	12.6	93.8	93.8	6.9	6.9	3.9	4	4	88	88	<0.2	2.2	<0.2	2.2												
SR3	Cloudy	Moderate	12:23	8.8						Surface	1.0	0.1	198	27.7	27.7	7.8	7.8	14.8	14.8	90.2	90.2	6.5	6.5	3.9	4	4	-	-	-	822153	807586				-	-	-	-
											1.0	0.1	209	27.6	27.6	7.8	7.8	14.8	14.8	90.1	90.2	6.5	6.5	3.9	4	4	-	-							-	-		
											4.4	0.1	159	27.6	27.6	7.8	7.8	15.0	15.0	87.8	87.6	6.4	6.4	4.1	4	4	-	-							-	-		
					4.4	0.1	165	27.6	27.6	7.8	7.8	15.0	15.0	87.4	87.4	6.3	6.3	4.1	4	4	-	-	-	-	-	-	-											
					7.8	0.1	231	27.7	27.7	7.8	7.8	15.7	15.7	86.3	86.4	6.2	6.2	4.3	5	5	-	-	-	-	-	-												
					7.8	0.1	239	27.7	27.7	7.8	7.8	15.7	15.7	86.4	86.4	6.2	6.2	4.3	5	5	-	-	-	-	-	-												
					SR4A	Rainy	Moderate	13:23	8.9	Surface	1.0	0.0	171	28.4	28.4	7.9	7.9	13.0	13.0	93.2	93.1	6.7	6.7	6.4	5	5	-	-				-	817178	807786	-	-	-	-
											1.0	0.0	185	28.4	28.4	7.9	7.9	13.0	13.0	93.0	93.1	6.7	6.7	6.7	4	4	-	-							-	-		
											4.5	0.2	81	28.2	28.2	7.9	7.9	14.5	14.5	90.6	90.3	6.5	6.5	12.7	5	5	-	-							-	-		
4.5	0.2	84	28.2	28.2						7.9	7.9	14.5	14.5	89.9	89.9	6.5	6.5	12.7	5	5	-	-	-	-	-	-												
7.9	0.1	122	27.9	27.9						7.9	7.9	17.6	17.6	87.5	87.6	6.2	6.2	7.8	7	6	-	-	-	-	-	-												
7.9	0.1	133	27.9	27.9						7.9	7.9	17.6	17.6	87.6	87.6	6.2	6.2	7.7	6	6	-	-	-	-	-	-												
SR5A	Rainy	Moderate	13:37	5.6						Surface	1.0	0.1	81	28.3	28.3	8.0	8.0	15.0	15.0	103.3	103.3	7.4	7.4	5.3	5	5	-	-	-	816589	810719				-	-	-	-
											1.0	0.1	83	28.2	28.2	8.0	8.0	15.0	15.0	103.3	103.3	7.4	7.4	5.8	5	5	-	-							-	-		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
					4.6	0.1	33	28.2	28.2	7.9	7.9	16.1	16.1	103.1	103.1	7.4	7.4	5.6	6	6	-	-	-	-	-	-												
					4.6	0.1	33	28.2	28.2	7.9	7.9	16.1	16.1	103.1	103.1	7.4	7.4	5.6	6	6	-	-	-	-	-	-												
					SR6	Rainy	Moderate	14:12	4.4	Surface	1.0	0.1	119	28.1	28.1	8.0	8.0	17.7	17.7	100.5	10																	

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 18 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
								Value		Value		Value		Value		Value		Value		Value		Value				Value		Value		Value	
C1	Cloudy	Moderate	06:32	8.3	Surface	1.0	0.2	208	27.7	7.9	7.9	13.1	13.1	88.8	88.7	6.5	6.1	4	81	85	815625	804263	<0.2	1.5	<0.2	1.6					
						1.0	0.3	209	27.7	7.9	7.9	13.1	13.1	88.6	6.5	6.0	4	82	<0.2				1.5								
						4.2	0.1	72	27.6	8.0	8.0	13.9	13.9	86.9	6.3	12.0	4	85	<0.2				1.5								
					4.2	0.1	77	27.6	8.0	8.0	13.9	13.9	86.8	6.3	11.7	5	85	<0.2	1.6												
					7.3	0.1	61	27.4	7.9	7.9	21.2	21.2	83.8	5.9	7.8	7	87	<0.2	1.6												
					7.3	0.1	62	27.4	7.9	7.9	21.2	21.2	84.1	5.9	7.9	8	88	<0.2	1.6												
C2	Cloudy	Moderate	07:28	11.6	Surface	1.0	0.6	60	27.6	7.8	7.8	9.8	9.8	89.1	89.1	6.6	4.9	5	84	87	825662	806926	<0.2	1.8	<0.2	1.8					
						1.0	0.6	67	27.7	7.8	7.8	9.8	9.8	89.1	6.6	4.9	4	84	<0.2				1.8								
						5.8	0.2	72	27.8	7.8	7.8	10.7	10.7	88.9	6.6	5.2	5	88	<0.2				1.8								
					5.8	0.2	73	27.8	7.8	7.8	10.7	10.7	88.7	6.6	5.2	5	87	<0.2	1.7												
					10.6	0.2	27	27.7	7.8	7.8	15.8	15.8	81.9	5.9	7.1	6	89	<0.2	1.8												
					10.6	0.2	25	27.7	7.8	7.8	15.8	15.8	82.0	5.9	7.1	6	90	<0.2	1.8												
C3	Cloudy	Moderate	05:30	12.4	Surface	1.0	0.6	244	26.9	7.9	7.9	23.2	23.2	85.5	85.6	6.0	2.7	4	85	87	822114	817789	<0.2	1.8	<0.2	1.8					
						1.0	0.7	252	26.9	7.9	7.9	23.2	23.2	85.4	6.0	2.7	5	85	<0.2				1.7								
						6.2	0.7	259	26.9	7.9	7.9	23.5	23.5	85.4	6.0	3.0	4	88	<0.2				1.8								
					6.2	0.8	275	26.9	7.9	7.9	23.5	23.5	85.4	6.0	3.0	5	89	<0.2	1.9												
					11.4	0.4	279	27.5	7.9	7.9	24.4	24.4	85.7	5.9	3.1	6	89	<0.2	1.8												
					11.4	0.4	283	27.5	7.9	7.9	24.4	24.4	85.7	5.9	3.1	6	88	<0.2	2.0												
IM1	Cloudy	Moderate	06:53	5.6	Surface	1.0	0.2	79	27.9	7.9	7.9	14.3	14.3	89.8	89.8	6.5	4.4	7	84	86	817957	807119	<0.2	1.7	<0.2	1.6					
						1.0	0.3	80	27.9	7.9	7.9	14.3	14.3	89.7	6.5	4.8	6	84	<0.2				1.6								
						-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-				
					4.6	0.2	35	27.8	7.9	7.9	18.5	18.5	84.9	6.0	7.6	9	88	<0.2	1.5												
					4.6	0.2	38	27.8	7.9	7.9	18.5	18.5	84.9	6.0	7.6	10	88	<0.2	1.6												
					7.9	0.2	38	27.8	7.9	7.9	18.5	18.5	84.9	6.0	7.6	10	88	<0.2	1.6												
IM2	Cloudy	Moderate	06:57	8.1	Surface	1.0	0.4	64	27.9	7.9	7.9	13.4	13.4	85.8	85.7	6.3	10.1	4	84	86	818186	806150	<0.2	1.6	<0.2	1.7					
						1.0	0.4	67	27.8	7.9	7.9	13.4	13.4	85.6	6.2	10.1	5	84	<0.2				1.7								
						4.1	0.2	45	27.7	7.9	7.9	15.5	15.5	84.3	6.1	12.3	5	86	<0.2				1.6								
					4.1	0.2	46	27.6	7.9	7.9	15.5	15.5	84.0	6.1	12.3	5	87	<0.2	1.7												
					7.1	0.1	88	27.6	7.8	7.8	18.8	18.8	84.8	6.0	7.8	7	87	<0.2	1.7												
					7.1	0.1	91	27.6	7.8	7.8	18.8	18.8	84.9	6.0	7.6	6	88	<0.2	1.7												
IM3	Cloudy	Moderate	07:03	8.3	Surface	1.0	0.1	54	27.6	7.9	7.9	12.4	12.4	86.2	86.1	6.3	6.6	4	85	88	818763	805611	<0.2	1.5	<0.2	1.6					
						1.0	0.1	50	27.6	7.9	7.9	12.4	12.4	85.9	6.3	6.9	3	85	<0.2				1.6								
						4.2	0.1	65	27.6	7.9	7.9	16.0	16.0	84.8	6.1	6.8	4	89	<0.2				1.4								
					4.2	0.1	69	27.6	7.9	7.9	16.0	16.0	84.8	6.1	7.3	4	89	<0.2	1.6												
					7.3	0.1	77	27.5	7.8	7.8	19.2	19.2	84.8	6.0	8.3	5	90	<0.2	1.5												
					7.3	0.1	78	27.5	7.8	7.8	19.2	19.2	84.9	6.0	7.8	5	90	<0.2	1.5												
IM4	Cloudy	Moderate	07:11	8.5	Surface	1.0	0.0	55	27.6	8.0	8.0	11.9	11.9	86.3	86.2	6.4	6.0	3	84	87	819735	804628	<0.2	1.5	<0.2	1.5					
						1.0	0.0	66	27.6	8.0	8.0	11.9	11.9	86.0	6.4	6.2	3	85	<0.2				1.5								
						4.3	0.3	60	27.5	7.9	7.9	16.1	16.1	85.0	6.1	4.6	4	87	<0.2				1.5								
					4.3	0.3	66	27.5	7.9	7.9	16.1	16.1	84.9	6.1	4.5	5	88	<0.2	1.5												
					7.5	0.2	44	27.4	7.8	7.8	20.8	20.8	82.8	5.8	5.8	5	88	<0.2	1.5												
					7.5	0.2	45	27.4	7.8	7.8	20.8	20.8	82.9	5.8	5.8	4	89	<0.2	1.4												
IM5	Cloudy	Moderate	07:18	8.2	Surface	1.0	0.3	48	27.7	7.9	7.9	16.0	16.0	83.3	83.3	6.0	5.4	6	85	88	820750	804870	<0.2	1.6	<0.2	1.6					
						1.0	0.3	46	27.7	7.9	7.9	16.0	16.0	83.3	6.0	5.5	6	85	<0.2				1.5								
						4.1	0.3	59	27.5	7.8	7.8	19.3	19.3	80.8	5.7	11.1	9	88	<0.2				1.7								
					4.1	0.3	69	27.5	7.8	7.8	19.3	19.3	80.4	5.7	11.2	8	88	<0.2	1.7												
					7.2	0.2	64	27.5	7.7	7.7	21.6	21.6	82.3	5.8	10.1	11	89	<0.2	1.6												
					7.2	0.2	67	27.5	7.7	7.7	21.6	21.6	82.7	5.8	10.3	12	90	<0.2	1.6												
IM6	Cloudy	Moderate	07:27	8.6	Surface	1.0	0.4	35	28.0	7.8	7.8	14.4	14.4	90.2	90.2	6.5	3.8	4	84	87	821082	805823	<0.2	1.6	<0.2	1.6					
						1.0	0.4	37	28.0	7.8	7.8	14.4	14.4	90.1	6.5	3.8	3	84	<0.2				1.5								
						4.3	0.2	36	28.0	7.9	7.9	14.6	14.6	89.9	6.5	4.3	4	88	<0.2				1.6								
					4.3	0.2	40	28.0	7.9	7.9	14.6	14.6	90.0	6.5	4.5	4	88	<0.2	1.6												
					7.6	0.3	71	27.6	7.8	7.8	18.7	18.7	84.0	6.0	8.6	8	90	<0.2	1.6												
					7.6	0.3	78	27.6	7.8	7.8	18.7	18.7	84.5	6.0	8.7	7	89	<0.2	1.5												
IM7	Cloudy	Moderate	07:34	8.7	Surface	1.0	0.4	26	27.9	7.8	7.8	15.4	15.4	91.1	91.0	6.6	6.5	4	84	88	821338	806818	<0.2	1.6	<0.2	1.6					
						1.0	0.4	26	27.9	7.8	7.8	15.4	15.4	90.9	6.5	6.6	4	85	<0.2				1.5								
						4.4	0.1	27	27.8	7.8	7.8	15.8	15.8	86.1	6.2	5.9	4	88	<0.2				1.6								
					4.4	0.1	25	27.8	7.8	7.8	15.8	15.8	86.0	6.2	5.9	5	88	<0.2	1.7												
					7.7	0.1	45	27.7	7.8	7.8	17.7	17.7	84.9	6.1	7.4	6	90	<0.2	1.6												
					7.7	0.1	48	27.7	7.8	7.8	17.7	17.7	85.2	6.1	7.5	6	90	<0.2	1.6												
IM8	Cloudy	Moderate	06:56	7.8	Surface	1.0	0.5	352	27.3	7.7	7.7	14.0	14.0	86.6	86.6	6.4	5.1	4	86	87	821834	808138	<0.2	2.3	<0.2	2.2					
						1.0	0.5	355	27.3	7.7	7.7	14.0	14.0	86.6	6.3	5.0	4	84	<0.2				2.4								
						3.9	0.4	306	27.5	7.8	7.8	13.6	13.6	85.6	6.3	4.9	4	87	<0.2				2.2								
					3.9	0.4	312	27.5	7.8	7.8	13.6	13.6	85.4	6.3	4.3	4	86	<0.2	2.2												
					6.8	0.4	9	27.6	7.7	7.7	15.5	15.5	83.5	6.0	5.9	6	89	<0.2	2.2												
					6.8	0.5	8	27.6	7.7	7.7	15.5	15.5	83.5	6.0	6.0	6	90	<0.2	1.8												

DA: Depth-Averaged  
 Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher  
 Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined



Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 20 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)										
						Value	Average		Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA							
						Value	Average		Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA					
C1	Fine	Moderate	14:25	8.3	Surface	1.0	0.2	103	28.3	28.3	7.9	7.9	15.7	15.7	91.7	91.8	6.6	6.6	4.9	5	85	85	87	87	87	815615	804245	<0.2	1.5	<0.2	1.4								
						1.0	0.2	109	28.3	7.9	7.9	15.7	15.7	91.8	91.8	6.6	6.6	5.0	5	85	85	87	87	<0.2				1.5	<0.2	1.4									
						4.2	0.3	104	28.4	7.9	7.9	15.8	15.8	92.2	92.2	6.6	6.6	4.7	4	87	87	<0.2	1.5	<0.2				1.4											
					Middle	4.2	0.3	104	28.4	7.9	7.9	15.8	15.8	92.2	92.2	6.6	6.6	4.7	5	88	88	<0.2	1.5	<0.2				1.4											
						7.3	0.2	139	28.1	7.8	7.8	16.5	16.5	90.0	90.1	6.4	6.4	7.5	6	89	89	<0.2	1.6	<0.2				1.5											
						7.3	0.3	141	28.1	7.8	7.8	16.5	16.5	90.1	90.1	6.4	6.4	7.4	7	90	90	<0.2	1.5	<0.2				1.5											
					C2	Sunny	Moderate	13:36	11.8	Surface	1.0	0.3	146	27.4	27.4	7.8	7.8	14.0	13.7	70.5	70.4	5.2	5.2	4.0				4	84	85	88	88	88	825701	806959	<0.2	2.0	<0.2	2.1
											1.0	0.4	159	27.4	7.8	7.8	13.4	13.7	70.3	70.4	5.2	5.1	4.1	4				85	88	88	88	<0.2				2.1	<0.2	2.0	
											5.9	0.4	131	27.2	7.8	7.8	17.2	17.2	68.9	69.0	5.0	5.0	5.2	4				88	88	<0.2	2.0	<0.2				2.2			
Middle	5.9	0.4	155	27.2						7.8	7.8	17.2	17.2	69.0	69.0	5.0	5.0	5.3	4	88	88	<0.2	2.2	<0.2	2.0														
	10.8	0.5	108	27.2						7.8	7.8	19.4	19.4	70.3	70.6	5.0	5.1	5.4	4	90	90	<0.2	2.1	<0.2	2.1														
	10.8	0.5	113	27.2						7.8	7.8	19.4	19.4	70.9	70.6	5.1	5.1	5.3	5	90	90	<0.2	2.0	<0.2	2.0														
C3	Sunny	Moderate	14:58	12.6						Surface	1.0	0.3	78	27.5	27.5	8.0	8.0	18.7	18.5	86.4	86.5	6.1	6.1	2.6	4	85	87	88	88	88	822108	817789				<0.2	1.7	<0.2	1.7
											1.0	0.3	83	27.5	8.0	8.0	18.3	18.5	86.5	86.5	6.2	6.2	2.6	5	87	88	88	88	<0.2							1.7	<0.2	1.6	
											6.3	0.3	118	26.8	8.0	8.0	24.7	24.8	71.0	70.9	5.0	5.0	2.8	4	88	87	87	87	<0.2							1.6	<0.2	1.7	
					Middle	6.3	0.3	123	26.7	8.0	8.0	24.9	24.8	70.7	70.9	4.9	4.9	2.8	5	90	88	88	88	<0.2	1.6	<0.2	1.7												
						11.6	0.3	125	26.6	8.0	8.0	25.2	25.6	70.0	69.9	4.9	4.9	2.9	5	88	88	88	88	<0.2	1.6	<0.2	1.6												
						11.6	0.3	122	26.6	8.0	8.0	26.0	25.6	69.7	69.9	4.8	4.8	2.8	5	88	88	88	88	<0.2	1.7	<0.2	1.7												
					IM1	Fine	Moderate	13:59	5.8	Surface	1.0	0.0	153	28.3	28.3	7.9	7.9	13.5	13.5	90.9	90.9	6.6	6.6	4.5	4	83	84	85	85				85	817961	807140	<0.2	1.6	<0.2	1.5
											1.0	0.0	144	28.3	8.0	8.0	13.5	13.5	90.9	90.9	6.6	6.6	4.8	4	84	85	85	85	<0.2							1.5	<0.2	1.5	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-			
	4.8	0.1	155	28.3						8.0	8.0	12.1	12.1	92.1	92.2	6.7	6.7	5.9	4	86	86	86	86	<0.2	1.6	<0.2	1.6												
	4.8	0.1	158	28.2						8.0	8.0	12.1	12.1	92.2	92.2	6.7	6.7	5.8	5	86	86	86	86	<0.2	1.6	<0.2	1.6												
IM2	Fine	Moderate	13:53	8.4						Surface	1.0	0.3	210	28.4	28.4	7.9	7.9	14.3	14.3	91.8	91.8	6.6	6.6	3.4	5	85	85	86	86	86	818178	806172				<0.2	1.3	<0.2	1.3
											1.0	0.3	221	28.4	7.9	7.9	14.3	14.3	91.8	91.8	6.6	6.6	3.4	5	85	86	86	86	<0.2							1.5	<0.2	1.5	
											4.2	0.4	226	28.4	7.9	7.9	14.5	14.5	92.0	92.0	6.6	6.6	4.2	4	86	86	86	86	<0.2							1.5	<0.2	1.5	
					Middle	4.2	0.4	226	28.4	7.9	7.9	14.5	14.5	92.0	92.0	6.6	6.6	4.3	4	86	86	86	86	<0.2	1.5	<0.2	1.5												
						7.4	0.3	244	28.2	7.9	7.9	15.1	15.1	92.3	92.3	6.6	6.6	4.5	5	88	88	88	88	<0.2	1.2	<0.2	1.2												
						7.4	0.4	245	28.2	7.9	7.9	15.1	15.1	92.3	92.3	6.6	6.6	4.6	5	88	88	88	88	<0.2	1.2	<0.2	1.2												
					IM3	Fine	Moderate	13:47	8.3	Surface	1.0	0.3	204	28.4	28.4	7.9	7.9	11.0	11.0	88.9	88.9	6.5	6.5	7.2	6	85	85	86	86				87	818764	805613	<0.2	1.1	<0.2	1.1
											1.0	0.3	200	28.4	7.9	7.9	11.0	11.0	88.9	88.9	6.5	6.5	6.8	5	85	86	86	86	<0.2							1.1	<0.2	1.1	
											4.2	0.4	225	28.3	7.9	7.9	11.2	11.2	89.6	89.7	6.6	6.6	6.6	4	86	87	87	87	<0.2							1.4	<0.2	1.5	
Middle	4.2	0.5	213	28.3						7.9	7.9	11.2	11.2	89.7	89.7	6.6	6.6	6.8	4	87	87	87	87	<0.2	1.5	<0.2	1.5												
	7.3	0.4	220	28.2						8.0	8.0	12.1	12.1	91.0	91.1	6.6	6.6	5.5	4	89	89	89	89	<0.2	1.4	<0.2	1.4												
	7.3	0.4	202	28.2						8.0	8.0	12.1	12.1	91.1	91.1	6.6	6.6	5.4	5	89	89	89	89	<0.2	1.5	<0.2	1.5												
IM4	Fine	Moderate	13:37	8.5						Surface	1.0	0.8	211	28.3	28.3	8.0	8.0	11.8	11.8	88.2	88.2	6.4	6.4	4.8	4	84	84	85	85	86	819745	804588				<0.2	1.8	<0.2	1.7
											1.0	0.8	221	28.3	8.0	8.0	11.8	11.8	88.2	88.2	6.4	6.4	4.8	4	84	85	85	85	<0.2							1.7	<0.2	1.7	
											4.3	0.7	220	28.2	7.9	7.9	14.2	14.2	88.4	88.5	6.4	6.4	7.4	6	85	85	85	85	<0.2							1.7	<0.2	1.7	
					Middle	4.3	0.7	205	28.2	7.9	7.9	14.2	14.2	88.5	88.5	6.4	6.4	7.7	6	85	88	88	88	<0.2	1.7	<0.2	1.8												
						7.5	0.4	196	28.2	7.9	7.9	16.4	16.4	90.0	90.1	6.4	6.4	7.0	6	88	88	88	88	<0.2	1.8	<0.2	1.7												
						7.5	0.5	198	28.2	7.9	7.9	16.4	16.4	90.1	90.1	6.4	6.4	6.9	6	88	88	88	88	<0.2	1.7	<0.2	1.7												
					IM5	Fine	Moderate	13:29	7.4	Surface	1.0	0.9	199	28.1	28.1	7.9	7.9	15.8	15.8	88.2	88.2	6.3	6.3	6.1	5	85	85	86	86				87	820731	804856	<0.2	2.0	<0.2	2.1
											1.0	0.9	203	28.1	7.9	7.9	15.8	15.8	88.1	88.1	6.3	6.3	6.1	4	85	86	86	86	<0.2							1.9	<0.2	1.9	
											3.7	1.0	198	28.1	8.0	8.0	16.0	16.0	87.6	87.6	6.3	6.3	6.4	4	86	87	87	87	<0.2							1.8	<0.2	1.8	
Middle	3.7	1.0	189	28.1						8.0	8.0	16.0	16.0	87.6	87.6	6.3	6.3	6.5	4	87	88	88	88	<0.2	1.9	<0.2	1.9												
	6.4	0.6	191	28.0						8.0	8.0	16.3	16.3	88.6	88.7	6.3	6.3	5.5	5	88	88	88	88	<0.2	2.0	<0.2	2.0												
	6.4	0.7	188	28.0						8.0	8.0	16.3	16.3	88.8	88.8	6.3	6.3	5.5	5	89	89	89	89	<0.2	1.9	<0.2	1.9												
IM6	Fine	Moderate	13:22	8.2						Surface	1.0	0.6	186	28.2	28.2	7.9	7.9	16.7	16.7	89.3	89.4	6.4	6.4	7.2	6	84	84	87	87	87	821069	805804				<0.2	1.8	<0.2	1.7
											1.0	0.6	188	28.2	7.9	7.9	16.7	16.7	89.5	89.4	6.4	6.4	7.3	6	84	87	87	87	<0.2							1.9	<0.2	1.7	
											4.1	0.4	192	28.1	7.9	7.9	16.7	16.7	89.6	89.6	6.4	6.4	9.1	7	87	87	87	87	<0.2							1.7	<0.2	1.7	
					Middle	4.1																																	





Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 20 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)										
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA									
								Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA									
C1	Fine	Moderate	08:45	8.6	Surface	1.0	0.3	54	28.2	8.0	8.0	15.5	15.5	90.4	90.3	6.5	6.5	4.0	6	85	87	81	81	87	815642	804251	<0.2	2.0	<0.2	2.1								
						1.0	0.3	58	28.1	8.0	8.0	15.2	15.2	90.1	90.3	6.5	6.5	4.1	6	85	87	81	81				<0.2	2.3	<0.2	2.2								
						4.3	0.3	49	28.1	8.0	8.0	15.2	15.2	88.7	88.7	6.4	6.4	7.1	6	86	87	81	81				<0.2	2.2	<0.2	2.2								
					Middle	4.3	0.3	49	28.1	8.0	8.0	15.2	15.2	88.6	88.6	6.4	6.4	7.3	5	87	87	81	81				<0.2	2.2	<0.2	2.2								
						7.6	0.2	40	28.1	8.0	8.0	16.6	16.6	88.5	88.6	6.3	6.3	10.2	5	88	88	81	81				<0.2	2.2	<0.2	2.1								
						7.6	0.3	41	28.1	8.0	8.0	16.6	16.6	88.6	88.6	6.3	6.3	10.1	6	88	88	81	81				<0.2	2.1	<0.2	2.1								
					C2	Fine	Moderate	09:39	11.6	Surface	1.0	0.4	349	27.4	7.7	7.7	13.0	13.0	69.5	69.5	5.1	5.1	4.1				4	84	84	81	81	88	825698	806966	<0.2	2.2	<0.2	2.3
											1.0	0.4	353	27.4	7.7	7.7	12.9	12.9	69.5	69.5	5.1	5.1	4.2				5	85	85	81	81				<0.2	2.0	<0.2	2.3
											5.8	0.4	321	27.2	7.8	7.8	18.7	18.7	66.9	66.7	4.8	4.8	7.4				4	89	89	81	81				<0.2	2.0	<0.2	2.0
Middle	5.8	0.4	322	27.1						7.8	7.8	18.8	18.8	66.5	66.7	4.8	4.8	7.4	4	87	87	81	81	<0.2	2.0	<0.2	2.0											
	10.6	0.2	338	27.1						7.8	7.8	21.1	21.1	66.2	66.4	4.7	4.7	8.2	4	90	90	81	81	<0.2	2.0	<0.2	2.0											
	10.6	0.2	358	27.1						7.8	7.8	21.1	21.1	66.6	66.6	4.7	4.7	8.2	4	90	90	81	81	<0.2	1.9	<0.2	1.9											
C3	Fine	Moderate	08:17	12.2						Surface	1.0	0.5	256	27.4	7.8	7.8	15.2	15.2	74.2	74.2	5.4	5.4	4.0	4	86	86	81	81	88	822125	817779				<0.2	1.5	<0.2	1.6
											1.0	0.5	276	27.4	7.8	7.8	15.2	15.2	74.1	74.1	5.4	5.4	4.0	3	89	89	81	81							<0.2	1.4	<0.2	1.4
											6.1	0.6	260	26.8	7.9	7.9	25.0	25.0	67.2	67.4	4.7	4.7	3.2	3	89	89	81	81							<0.2	1.5	<0.2	1.6
					Middle	6.1	0.7	277	26.8	7.9	7.9	26.0	26.0	67.6	67.6	4.7	4.7	3.2	3	89	89	81	81	<0.2	1.6	<0.2	1.6											
						11.2	0.5	291	26.5	7.9	7.9	27.7	27.7	63.3	63.4	4.4	4.4	14.0	4	90	90	81	81	<0.2	1.6	<0.2	1.6											
						11.2	0.5	308	26.5	7.9	7.9	27.7	27.7	63.4	63.4	4.4	4.4	13.1	4	90	90	81	81	<0.2	1.6	<0.2	1.6											
					IM1	Fine	Moderate	09:04	5.6	Surface	1.0	0.5	50	28.2	8.0	8.0	12.7	12.7	90.1	90.2	6.6	6.6	5.7	5	81	81	81	81				83	817943	807150	<0.2	1.5	<0.2	1.4
											1.0	0.5	52	28.2	8.0	8.0	12.7	12.7	90.2	90.2	6.6	6.6	5.8	6	81	81	81	81							<0.2	1.4	<0.2	1.4
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
Middle	4.6	0.3	21	28.3						8.0	8.0	13.1	13.1	90.5	90.6	6.6	6.6	9.4	5	85	85	81	81	<0.2	1.4	<0.2	1.5											
	4.6	0.3	22	28.3						8.0	8.0	13.1	13.1	90.6	90.6	6.6	6.6	8.9	5	85	85	81	81	<0.2	1.5	<0.2	1.5											
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-			
IM2	Fine	Moderate	09:10	8.1						Surface	1.0	0.3	13	28.0	7.9	7.9	11.6	11.6	87.8	87.8	6.4	6.4	5.9	5	82	82	81	81	86	818168	806174				<0.2	1.4	<0.2	1.4
											1.0	0.3	13	28.0	7.9	7.9	11.6	11.6	87.8	87.8	6.4	6.4	5.8	5	83	83	81	81							<0.2	1.4	<0.2	1.4
											4.1	0.5	6	28.1	7.9	7.9	11.9	11.9	87.9	88.0	6.4	6.4	4.2	3	86	86	81	81							<0.2	1.4	<0.2	1.4
					Middle	4.1	0.5	6	28.0	7.9	7.9	11.9	11.9	88.0	88.0	6.4	6.4	4.3	4	86	86	81	81	<0.2	1.4	<0.2	1.4											
						7.1	0.4	351	27.9	7.8	7.8	15.0	15.0	86.7	86.8	6.3	6.3	8.8	4	88	88	81	81	<0.2	1.3	<0.2	1.3											
						7.1	0.4	323	28.0	7.8	7.8	15.0	15.0	86.9	86.8	6.3	6.3	8.6	5	89	89	81	81	<0.2	1.4	<0.2	1.4											
					IM3	Fine	Moderate	09:15	8.5	Surface	1.0	0.3	349	28.0	7.9	7.9	8.5	8.5	88.1	88.1	6.6	6.6	4.8	4	84	84	81	81				86	818773	805608	<0.2	1.4	<0.2	1.3
											1.0	0.3	321	28.0	8.0	8.0	8.5	8.5	88.1	88.1	6.6	6.6	4.9	5	84	84	81	81							<0.2	1.3	<0.2	1.3
											4.3	0.5	348	28.1	8.0	8.0	8.7	8.7	87.8	87.8	6.5	6.5	3.7	3	85	85	81	81							<0.2	1.3	<0.2	1.3
Middle	4.3	0.5	352	28.1						8.0	8.0	8.7	8.7	87.8	87.8	6.5	6.5	3.7	4	85	85	81	81	<0.2	1.3	<0.2	1.3											
	7.5	0.3	345	27.8						7.8	7.8	16.6	16.6	85.3	85.4	6.1	6.1	7.7	5	88	88	81	81	<0.2	1.4	<0.2	1.4											
	7.5	0.3	351	27.8						7.8	7.8	16.6	16.6	85.5	85.4	6.1	6.1	7.6	6	89	89	81	81	<0.2	1.4	<0.2	1.4											
IM4	Fine	Moderate	09:23	8.7						Surface	1.0	0.8	354	27.9	7.9	7.9	13.5	13.5	82.6	82.6	6.0	6.0	4.4	4	84	84	81	81	86	819718	804591				<0.2	1.0	<0.2	1.1
											1.0	0.8	354	27.9	7.9	7.9	13.5	13.5	82.5	82.5	6.0	6.0	4.4	4	85	85	81	81							<0.2	1.1	<0.2	1.1
											4.4	0.8	352	27.9	7.9	7.9	15.4	15.4	82.3	82.3	5.9	5.9	6.4	5	86	86	81	81							<0.2	0.9	<0.2	0.8
					Middle	4.4	0.8	324	27.9	7.9	7.9	15.4	15.4	82.3	82.3	5.9	5.9	6.5	4	86	86	81	81	<0.2	1.0	<0.2	0.9											
						7.7	0.6	358	27.8	7.9	7.9	17.8	17.8	82.6	82.6	5.9	5.9	12.2	6	88	88	81	81	<0.2	1.3	<0.2	1.3											
						7.7	0.7	329	27.8	7.9	7.9	17.8	17.8	82.6	82.6	5.9	5.9	12.3	5	88	88	81	81	<0.2	1.3	<0.2	1.3											
					IM5	Fine	Moderate	09:28	7.9	Surface	1.0	0.9	27	28.1	7.9	7.9	14.4	14.4	84.6	84.7	6.1	6.1	9.3	3	82	82	81	81				84	820713	804878	<0.2	1.0	<0.2	1.2
											1.0	1.0	28	28.1	7.9	7.9	14.4	14.4	84.7	84.7	6.1	6.1	9.3	3	82	82	81	81							<0.2	1.2	<0.2	1.2
											4.0	0.8	32	28.1	7.9	7.8	15.2	15.2	84.5	84.6	6.1	6.1	7.8	4	84	84	81	81							<0.2	1.3	<0.2	1.3
Middle	4.0	0.9	35	28.1						7.8	7.8	15.2	15.2	84.6	84.6	6.1	6.1	8.5	4	85	85	81	81	<0.2	1.5	<0.2	1.5											
	6.9	0.6	40	28.1						7.9	7.9	16.4	16.4	85.9	86.1	6.1	6.1	10.0	4	86	86	81	81	<0.2	1.4	<0.2	1.4											
	6.9	0.7	42	28.2						7.9	7.9	16.3	16.4	86.2	86.1	6.1	6.1	9.7	4	87	87	81	81	<0.2	1.4	<0.2	1.4											
IM6	Fine	Moderate	09:33	8.4						Surface	1.0	0.6	3	28.3	7.9	7.9	15.9	15.9	87.3	87.3	6.2	6.2	5.6	5	83	83	81	81	85	821071	805818				<0.2	1.4	<0.2	1.5
											1.0	0.6	3	28.3	7.9	7.9	15.9	15.9	87.3	87.3	6.2	6.2	5.7	6	83	83	81	81							<0.2	1.5	<0.2	1.5
											4.2	0.6	358	28.3	7.9	7.9	16.3	16.3	87.6	87.7	6.2	6.2	7.1	3	85	85	81	81							<0.2	1.5	<0.2	1.5
					Middle	4.2	0.6	329	28.3	7.9	7.9	16.3	16.3	87.7																								

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 20 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA						
IM9	Fine	Moderate	09:21	7.4	Surface	1.0	0.2	244	27.5	7.7	7.7	12.3	12.3	74.2	74.2	5.5	5.5	4.8	4	85	88	88	822113	808787	<0.2	1.7	<0.2	1.6							
						1.0	0.2	263	27.5	7.7	7.7	12.3	12.3	74.1	74.1	5.5	5.0	5.0	5	86	86	88			<0.2	1.7	<0.2	1.6							
						3.7	0.0	29	27.4	7.8	7.8	14.8	14.7	73.1	73.0	5.3	6.7	7.0	4	88	89	90			<0.2	1.7	<0.2	1.9							
					Middle	3.7	0.0	30	27.4	7.8	7.8	14.7	14.7	72.9	72.5	5.3	5.2	9.0	4	91	91	91			<0.2	1.8	<0.2	1.8							
						6.4	0.2	81	27.4	7.8	7.8	16.9	17.0	72.4	72.5	5.2	5.2	9.3	4	91	91	91			<0.2	1.8	<0.2	1.8							
						6.4	0.2	87	27.4	7.8	7.8	17.0	17.0	72.5	72.5	5.2	5.2	9.3	4	91	91	91			<0.2	1.8	<0.2	1.8							
					IM10	Fine	Moderate	09:15	7.4	Surface	1.0	0.7	310	27.5	7.8	7.8	14.5	14.5	79.3	79.3	5.8	5.3	6	84	85	87	822382	809805	<0.2	1.5	<0.2	1.5	<0.2	1.4	
											1.0	0.7	323	27.5	7.8	7.8	14.5	14.5	79.3	79.3	5.8	5.2	6	85	87	88			<0.2	1.5	<0.2	1.4	<0.2	1.4	
											3.7	0.8	298	27.4	7.8	7.8	16.2	16.1	74.1	74.1	5.4	7.5	7.5	5	87	88	90			<0.2	1.5	<0.2	1.4	<0.2	1.3
Middle	3.7	0.8	313	27.3						7.8	7.8	16.1	16.1	74.0	69.4	5.4	7.5	7.5	4	88	90	90			<0.2	1.5	<0.2	1.4	<0.2	1.5					
	6.4	0.5	279	27.2						7.8	7.8	18.8	18.9	69.2	69.4	4.9	10.8	10.8	5	90	90	90			<0.2	1.5	<0.2	1.5	<0.2	1.5					
	6.4	0.6	302	27.2						7.8	7.8	18.9	18.9	69.6	69.4	5.0	10.8	10.8	4	90	90	90			<0.2	1.5	<0.2	1.5	<0.2	1.5					
IM11	Fine	Moderate	09:09	7.7						Surface	1.0	0.8	294	27.4	7.8	7.8	15.4	15.4	74.1	74.0	5.4	3.8	4	85	86	87	822053	811451	<0.2	1.6	<0.2	1.6	<0.2	1.6	
											1.0	0.9	315	27.4	7.8	7.8	15.4	15.4	73.9	74.0	5.4	3.8	4	86	87	89			<0.2	1.6	<0.2	1.7	<0.2	1.7	
											3.9	0.5	281	27.0	7.8	7.8	21.3	21.2	63.5	63.5	4.5	9.3	9.3	3	87	89	90			<0.2	1.6	<0.2	1.6	<0.2	1.8
					Middle	3.9	0.5	293	27.0	7.8	7.8	21.0	21.2	63.5	63.5	4.5	9.3	9.3	4	87	89	90			<0.2	1.6	<0.2	1.7	<0.2	1.8					
						6.7	0.3	303	26.9	7.8	7.8	22.5	22.5	61.1	61.1	4.3	13.6	13.7	4	90	90	90			<0.2	1.6	<0.2	1.8	<0.2	1.8					
						6.7	0.3	330	26.9	7.8	7.8	22.5	22.5	61.1	61.1	4.3	13.7	13.7	3	90	90	90			<0.2	1.6	<0.2	1.8	<0.2	1.8					
					IM12	Fine	Moderate	09:04	8.1	Surface	1.0	0.8	291	27.7	7.8	7.8	14.5	14.5	77.6	77.6	5.6	5.6	4	86	84	87	821479	812024	<0.2	1.7	<0.2	1.6	<0.2	1.6	
											1.0	0.8	307	27.7	7.8	7.8	14.5	14.5	77.5	77.6	5.6	5.5	4	84	87	89			<0.2	1.7	<0.2	1.6	<0.2	1.7	
											4.1	0.5	277	27.1	7.8	7.8	19.8	19.8	64.6	64.4	4.6	10.1	10.1	4	87	89	90			<0.2	1.6	<0.2	1.5	<0.2	1.4
Middle	4.1	0.5	301	27.1						7.8	7.8	19.8	19.8	64.2	64.4	4.6	10.1	10.1	3	87	89	90			<0.2	1.6	<0.2	1.5	<0.2	1.4					
	7.1	0.3	290	26.9						7.8	7.8	22.8	22.8	62.9	63.1	4.4	12.3	12.3	3	90	90	91			<0.2	1.7	<0.2	1.7	<0.2	1.7					
	7.1	0.3	303	26.9						7.8	7.8	22.8	22.8	63.3	63.3	4.5	12.3	12.3	4	91	91	91			<0.2	1.7	<0.2	1.7	<0.2	1.7					
SR1A	Fine	Moderate	08:46	5.2						Surface	1.0	-	-	27.6	7.8	7.8	13.2	13.2	80.4	80.3	5.9	3.9	2	-	-	-	819981	812662	-	-	-	-	-	-	
											1.0	-	-	27.6	7.8	7.8	13.2	13.2	80.1	80.3	5.9	4.0	3	-	-	-	-	-	-	-	-	-	-	-	
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						4.2	-	-	27.5	7.8	7.8	15.8	15.8	78.6	78.7	5.7	4.7	4	-	-	-	-	-	-	-	-	-	-	-	-	-				
						4.2	-	-	27.5	7.8	7.8	15.8	15.8	78.7	78.7	5.7	4.6	4	-	-	-	-	-	-	-	-	-	-	-	-	-				
					SR2	Fine	Moderate	08:36	5.1	Surface	1.0	0.3	306	27.3	7.8	7.8	16.6	16.5	71.5	71.6	5.2	6.7	7	86	86	86	821480	814179	<0.2	2.0	<0.2	2.0	<0.2	2.0	
											1.0	0.4	331	27.3	7.8	7.8	16.3	16.5	71.6	71.6	5.2	7.2	7.2	6	86	86	86			<0.2	2.0	<0.2	2.0	<0.2	2.0
											-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	4.1	0.4	291	27.1						7.8	7.8	20.4	20.4	68.2	68.3	4.8	14.0	14.1	4	89	89	90			<0.2	1.8	<0.2	1.8	<0.2	1.8					
	4.1	0.4	304	27.1						7.8	7.8	20.4	20.4	68.3	68.3	4.9	14.1	14.1	3	90	90	90			<0.2	1.8	<0.2	1.8	<0.2	1.8					
SR3	Fine	Moderate	09:32	8.3						Surface	1.0	0.2	302	27.5	7.7	7.7	11.7	11.7	72.0	71.9	5.3	4.0	3	-	-	-	822157	807579	-	-	-	-	-		
											1.0	0.2	314	27.5	7.8	7.8	11.7	11.7	71.8	71.8	5.3	4.0	3	-	-	-	-	-	-	-	-	-	-	-	
											4.2	0.1	323	27.4	7.8	7.8	14.5	14.5	71.5	71.6	5.2	4.5	3	-	-	-	-	-	-	-	-	-	-	-	
					Middle	4.2	0.1	324	27.4	7.8	7.8	14.5	14.5	71.7	71.6	5.2	4.9	3	-	-	-	-	-	-	-	-	-	-	-	-					
						7.3	0.2	52	27.4	7.8	7.8	16.9	16.9	72.4	72.5	5.2	5.5	5	-	-	-	-	-	-	-	-	-	-	-						
						7.3	0.2	57	27.4	7.8	7.8	16.9	16.9	72.5	72.5	5.2	5.4	4	-	-	-	-	-	-	-	-	-	-	-						
					SR4A	Fine	Moderate	08:21	9.7	Surface	1.0	0.2	253	28.5	8.0	8.0	17.0	17.0	94.2	94.2	6.7	5.0	6	-	-	-	817186	807793	-	-	-	-	-		
											1.0	0.2	277	28.5	8.0	8.0	17.0	17.0	94.1	94.1	6.6	5.1	6	-	-	-	-	-	-	-	-	-	-		
											4.9	0.1	284	28.5	8.0	8.0	16.3	16.3	93.0	92.9	6.6	5.7	6	-	-	-	-	-	-	-	-	-			
Middle	4.9	0.1	291	28.4						8.0	8.0	16.3	16.3	92.7	92.9	6.6	5.7	6	-	-	-	-	-	-	-	-	-	-							
	8.7	0.1	238	28.3						7.9	7.9	17.0	17.0	91.9	92.0	6.5	4.2	7	-	-	-	-	-	-	-	-	-								
	8.7	0.1	261	28.3						7.9	7.9	17.0	17.0	92.1	92.0	6.5	4.1	7	-	-	-	-	-	-	-	-	-								
SR5A	Fine	Calm	08:05	5.7						Surface	1.0	0.1	296	28.7	7.9	7.9	16.5	16.5	98.0	98.0	6.9	4.4	6	-	-	-	816593	810712	-	-	-	-	-		
											1.0	0.1	321	28.7	7.9	7.9	16.5	16.5	97.9	98.0	6.9	5.0	5	-	-	-	-	-	-	-	-				
											-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	-	-	-	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
						4.7	0.1	309	28.7	7.9	7.9	15.6	15.5	97.4	97.5	6.9	4.3	5	-	-	-	-	-	-	-	-									
						4.7	0.1	323	28.8																										

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 22 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	15:35	8.8	Surface	1.0	0.2	150	28.4	28.4	7.8	7.8	12.4	12.5	92.2	92.0	6.7	5.5	4.9	8.1	4	5	84	88	815619	804239	<0.2	1.1	<0.2	1.1	
						1.0	0.2	155	28.3	7.8	7.8	12.5	12.5	91.8	92.0	6.7	5.1	5.1	4	85	<0.2	1.1									
						4.4	0.1	142	27.1	7.8	7.8	26.8	26.8	61.6	61.6	4.2	9.0	5	87	<0.2	1.2										
					Middle	4.4	0.1	154	27.1	7.8	7.8	26.8	26.8	61.5	61.5	4.2	9.3	5	87	<0.2	1.1										
						7.8	0.3	144	27.0	7.8	7.8	28.4	28.4	59.9	60.0	4.1	10.1	6	91	<0.2	1.1										
						7.8	0.3	146	27.0	7.8	7.8	28.4	28.4	60.0	60.0	4.1	10.1	5	91	<0.2	1.1										
					Bottom	1.0	0.4	159	29.2	29.2	7.7	7.7	10.4	10.4	90.2	90.2	6.5	9.9	4	87	<0.2	1.7									
						1.0	0.5	138	29.2	29.2	7.7	7.7	10.4	10.4	90.1	90.2	6.5	9.8	3	86	<0.2	1.8									
						5.8	0.5	136	28.4	28.4	7.7	7.7	18.9	18.9	78.6	78.6	5.5	9.7	3	88	<0.2	1.9									
Middle	5.8	0.5	129	28.4	28.4	7.7	7.7	18.9	18.9	78.5	78.5	5.5	9.7	4	88	<0.2	1.7														
	10.5	0.5	144	28.1	28.1	7.7	7.7	21.1	21.1	71.7	71.8	5.0	11.6	4	92	<0.2	1.2														
	10.5	0.5	136	28.1	28.1	7.7	7.7	21.1	21.1	71.8	71.8	5.0	11.4	4	91	<0.2	1.1														
C2	Sunny	Moderate	14:29	11.5	Surface	1.0	0.5	68	29.7	29.7	8.0	8.0	12.5	12.5	124.9	124.8	8.9	7.5	9.8	9.2	3	4	85	87	825659	806927	<0.2	1.4	<0.2	1.4	
						1.0	0.5	68	29.7	29.7	8.0	8.0	12.5	12.5	124.7	124.8	8.9	9.9	4	85	<0.2	1.3									
						5.4	0.2	70	28.3	28.3	7.8	7.8	21.2	21.2	88.3	88.3	6.1	8.8	4	87	<0.2	1.4									
					Middle	5.4	0.2	71	28.3	28.3	7.8	7.8	21.2	21.2	88.2	88.2	6.1	8.7	3	86	<0.2	1.4									
						9.8	0.1	58	27.9	27.9	7.7	7.7	23.5	23.4	80.6	80.7	5.6	9.0	3	89	<0.2	1.3									
						9.8	0.1	52	27.9	27.9	7.7	7.7	23.4	23.4	80.7	80.7	5.6	9.0	4	89	<0.2	1.5									
					Bottom	1.0	0.1	235	28.3	28.3	7.9	7.9	11.8	11.8	108.9	108.9	7.9	4.2	4	83	<0.2	1.1									
						1.0	0.1	237	28.3	28.3	7.9	7.9	11.8	11.8	108.8	108.8	7.9	4.2	2	85	<0.2	1.2									
						-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	<0.2	-									
Middle	4.4	0.2	248	28.3	28.3	7.9	7.9	12.0	12.0	108.0	108.0	7.9	4.3	3	88	<0.2	1.1														
	4.4	0.2	249	28.3	28.3	7.9	7.9	12.1	12.0	108.0	108.0	7.9	4.3	4	90	<0.2	1.2														
	1.0	0.3	241	28.4	28.4	7.9	7.9	12.1	12.1	104.6	104.5	7.6	4.0	2	84	<0.2	1.0														
Surface	1.0	0.3	242	28.3	28.3	7.9	7.9	12.1	12.1	104.3	104.5	7.6	4.1	4	86	<0.2	1.1														
	3.8	0.3	202	28.2	28.2	7.9	7.9	12.4	12.4	100.8	100.7	7.3	5.0	4	87	<0.2	1.1														
	3.8	0.3	202	28.2	28.2	7.9	7.9	12.4	12.4	100.5	100.5	7.3	5.3	4	88	<0.2	1.0														
Middle	6.6	0.1	209	27.9	28.0	7.8	7.8	15.7	16.2	86.7	86.6	6.2	8.1	4	89	<0.2	0.9														
	6.6	0.2	217	28.0	28.0	7.8	7.8	16.6	16.2	86.5	86.6	6.2	8.1	4	90	<0.2	1.0														
	1.0	0.3	214	28.3	28.3	7.8	7.8	11.4	11.4	99.3	99.2	7.3	4.4	3	84	<0.2	1.3														
Surface	1.0	0.4	211	28.3	28.3	7.8	7.8	11.4	11.4	99.0	99.2	7.2	4.6	4	85	<0.2	1.2														
	3.9	0.4	207	28.0	28.0	7.8	7.8	15.8	15.9	85.1	84.9	6.1	7.0	3	90	<0.2	1.2														
	3.9	0.4	228	28.0	28.0	7.8	7.8	15.9	15.9	84.6	84.9	6.1	7.1	4	87	<0.2	1.2														
Middle	6.7	0.2	213	27.7	27.7	7.8	7.8	19.9	19.8	74.9	75.0	5.3	10.0	5	90	<0.2	1.1														
	6.7	0.2	218	27.7	27.7	7.8	7.8	19.8	19.8	75.0	75.0	5.3	10.0	6	90	<0.2	1.1														
	1.0	0.5	228	28.3	28.3	7.8	7.8	10.2	10.2	97.5	97.4	7.2	4.1	3	83	<0.2	1.1														
Surface	1.0	0.5	207	28.2	28.3	7.8	7.8	10.2	10.2	97.3	97.4	7.2	4.1	3	85	<0.2	1.1														
	3.9	0.6	204	28.1	28.1	7.7	7.7	12.7	12.7	90.8	90.8	6.6	4.2	3	89	<0.2	1.3														
	3.9	0.6	198	28.1	28.1	7.8	7.8	12.7	12.7	90.7	90.8	6.6	4.2	2	88	<0.2	1.2														
Middle	6.7	0.4	204	27.7	27.7	7.8	7.8	19.1	19.1	78.0	77.9	5.5	9.4	3	89	<0.2	1.1														
	6.7	0.4	208	27.7	27.7	7.8	7.8	19.1	19.1	77.7	77.9	5.5	9.4	3	89	<0.2	1.1														
	1.0	0.7	209	28.3	28.3	7.8	7.8	10.3	10.3	96.0	96.0	7.1	4.3	3	84	<0.2	1.1														
Surface	1.0	0.8	220	28.3	28.3	7.8	7.8	10.3	10.3	95.9	96.0	7.1	4.3	3	86	<0.2	1.0														
	3.8	0.8	192	28.2	28.2	7.8	7.8	13.5	13.5	94.5	94.4	6.8	4.6	4	89	<0.2	1.4														
	3.8	0.8	199	28.2	28.2	7.8	7.8	13.5	13.5	94.3	94.4	6.8	4.6	3	88	<0.2	1.2														
Middle	6.6	0.7	197	27.7	27.7	7.8	7.8	20.8	20.9	77.2	77.3	5.4	12.8	4	90	<0.2	1.2														
	6.6	0.7	191	27.6	27.7	7.8	7.8	20.9	20.9	77.4	77.3	5.4	12.9	4	90	<0.2	1.1														
	1.0	0.3	192	28.4	28.4	7.9	7.9	12.8	12.9	102.4	102.4	7.4	5.0	4	83	<0.2	1.4														
Surface	1.0	0.4	188	28.3	28.3	7.9	7.9	12.9	12.9	102.3	102.4	7.4	5.0	4	85	<0.2	1.3														
	3.9	0.3	190	28.2	28.2	7.8	7.8	13.5	13.5	97.4	97.2	7.0	5.5	5	86	<0.2	1.3														
	3.9	0.4	187	28.2	28.2	7.8	7.8	13.5	13.5	97.0	97.2	7.0	5.5	4	88	<0.2	1.5														
Middle	6.8	0.3	186	27.7	27.7	7.8	7.8	20.7	20.7	79.7	79.9	5.6	11.4	5	90	<0.2	1.3														
	6.8	0.3	188	27.7	27.7	7.8	7.8	20.7	20.7	80.1	79.9	5.6	11.0	5	91	<0.2	1.2														
	1.0	0.6	184	28.2	28.2	7.8	7.8	10.4	10.4	99.4	99.4	7.3	5.0	4	85	<0.2	1.3														
Surface	1.0	0.6	186	28.2	28.2	7.8	7.8	10.4	10.4	99.3	99.4	7.3	5.0	4	86	<0.2	1.4														
	4.1	0.4	166	28.1	28.1	7.8	7.8	14.5	14.5	92.4	92.2	6.7	7.0	5	87	<0.2	1.4														
	4.1	0.5	168	28.0	28.1	7.8	7.8	14.5	14.5	91.9	92.2	6.6	7.5	4	87	<0.2	1.3														
Middle	7.1	0.3	169	27.8	27.8	7.8	7.8	18.8	18.8	80.3	80.4	5.7	10.7	4	91	<0.2	1.4														
	7.1	0.3	172	27.8	27.8	7.8	7.8	18.8	18.8	80.5	80.4	5.7	10.8	5	91	<0.2	1.3														
	1.0	0.3	174	29.0	29.0	7.8	7.8	10.6	10.5	101.3	101.3	7.4	10.5	3	83	<0.2	1.7														
Surface	1.0	0.3	176	29.0	29.0	7.8	7.8	10.5	10.5	101.2	101.3	7.4	10.5	3	83	<0.2	1.6														
	4.0	0.3	168	28.9	28.9	7.7	7.7	12.8	12.8	94.5	94.5	6.8	10.4	3	85	<0.2	1.6														
	4.0	0.3	170	28.9	28.9	7.7	7.7	12.8	12.8	94.4	94.5	6.8	10.4	3	85	<0.2	1.5														
Middle	7.0	0.2	179	28.8	28.8	7.6	7.6	14.5	14.5	88.3	88.3	6.3	10.8	3	87	<0.2	1.5														
	7.0	0.2	182	28.8	28.8	7.6	7.6	14.5	14.5	88.2	88.2	6.3	10.7	3	87	<0.2	1.6														
	Bottom	7.0	0.2	179	28.8	28.8	7.6	7.6	14.5	14.5	88.3	88.3	6.3	10.8	3	87	<0.2	1.5													
7.0	0.2	182	28.8	28.8	7.6	7.6	14.5	14.5	88.2	88.2	6.3	10.7	3	87	<0.2	1.6															

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 22 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA		
IM9	Sunny	Moderate	15:03	7.6	Surface	1.0	0.5	164	29.2	29.2	7.8	7.8	9.6	9.6	102.4	102.3	7.4	7.4	10.4	10.4	2	3	83	86	822100	808829	<0.2	1.7	<0.2	1.7					
						1.0	0.5	166	29.2	29.2	7.8	7.8	9.6	9.6	102.1	102.1	7.4	7.4	10.4	10.4	3	3	84	86			<0.2	1.7	<0.2	1.7					
						3.8	0.3	153	28.9	28.9	7.7	7.7	13.9	13.9	94.1	94.2	6.7	6.7	11.6	11.6	3	3	85	86			<0.2	2.0	<0.2	1.9					
					Middle	3.8	0.3	155	28.9	28.9	7.7	7.7	13.9	13.9	94.3	94.3	6.7	6.7	11.6	11.6	2	2	87	88			<0.2	1.9	<0.2	1.6					
						6.6	0.2	164	28.6	28.6	7.6	7.6	16.5	16.5	81.7	81.8	5.8	5.8	14.1	14.1	2	2	88	88			<0.2	1.6	<0.2	1.7					
						6.6	0.3	168	28.6	28.6	7.6	7.6	16.5	16.5	81.8	81.8	5.8	5.8	14.1	14.1	3	3	88	88			<0.2	1.7	<0.2	1.7					
					IM10	Sunny	Moderate	15:11	8.4	Surface	1.0	0.5	163	29.4	29.4	7.8	7.8	12.0	12.0	108.8	108.8	7.8	7.8	9.8	9.8	3	4	85	87	822403	809782	<0.2	1.6	<0.2	1.5
											1.0	0.5	166	29.4	29.4	7.8	7.8	12.0	12.0	108.7	108.7	7.8	7.8	9.8	9.8	4	4	85	86			<0.2	1.5	<0.2	1.5
											4.2	0.3	141	29.1	29.1	7.9	7.9	13.2	13.2	111.8	111.8	8.0	8.0	10.9	10.9	4	4	86	87			<0.2	1.5	<0.2	1.5
Middle	4.2	0.3	157	29.1						29.1	7.9	7.9	13.2	13.2	111.8	111.8	8.0	8.0	10.9	10.9	3	3	87	88			<0.2	1.5	<0.2	1.5					
	7.4	0.3	146	28.9						28.9	7.8	7.8	14.9	14.9	98.0	98.0	7.0	7.0	11.7	11.7	3	3	88	88			<0.2	1.5	<0.2	1.5					
	7.4	0.3	128	28.8						28.8	7.8	7.8	14.9	14.9	97.9	97.9	7.0	7.0	11.6	11.6	4	4	88	88			<0.2	1.6	<0.2	1.6					
IM11	Sunny	Moderate	15:23	8.9						Surface	1.0	0.1	171	29.2	29.2	7.7	7.7	13.7	13.7	103.3	103.3	7.3	7.3	9.7	9.7	4	3	83	86	822035	811441	<0.2	2.1	<0.2	2.1
											1.0	0.1	178	29.2	29.2	7.7	7.7	13.7	13.7	103.2	103.2	7.3	7.3	9.7	9.7	3	3	84	85			<0.2	2.1	<0.2	2.1
											4.5	0.1	155	28.8	28.8	7.7	7.7	15.0	14.9	90.2	90.2	6.4	6.4	10.1	10.1	3	4	85	86			<0.2	1.9	<0.2	1.9
					Middle	4.5	0.1	156	28.8	28.8	7.7	7.7	14.9	14.9	90.1	90.1	6.4	6.4	10.1	10.1	4	4	86	88			<0.2	1.9	<0.2	1.9					
						7.9	0.1	173	28.1	28.1	7.6	7.6	21.7	21.7	76.6	76.6	5.3	5.3	12.6	12.6	3	3	88	87			<0.2	1.9	<0.2	1.9					
						7.9	0.2	174	28.1	28.1	7.6	7.6	21.7	21.7	76.6	76.6	5.3	5.3	12.2	12.2	4	4	87	88			<0.2	1.9	<0.2	1.9					
					IM12	Sunny	Moderate	15:31	8.3	Surface	1.0	0.1	150	29.2	29.2	7.8	7.8	13.9	13.8	103.5	103.6	7.4	7.4	10.0	10.0	3	3	83	86	821435	812029	<0.2	1.6	<0.2	1.6
											1.0	0.1	154	29.2	29.2	7.8	7.8	13.8	13.8	103.7	103.7	7.4	7.4	10.0	10.0	3	3	83	85			<0.2	1.6	<0.2	1.6
											4.2	0.0	171	28.4	28.4	7.6	7.6	19.5	19.5	81.6	81.7	5.7	5.7	10.8	10.8	3	3	85	86			<0.2	1.4	<0.2	1.4
Middle	4.2	0.0	175	28.4						28.4	7.6	7.6	19.5	19.5	81.7	81.7	5.7	5.7	10.8	10.8	3	3	86	88			<0.2	1.5	<0.2	1.5					
	7.3	0.2	137	28.3						28.3	7.6	7.6	20.7	20.7	76.9	77.0	5.3	5.3	12.7	12.7	4	4	88	89			<0.2	1.6	<0.2	1.6					
	7.3	0.2	140	28.3						28.3	7.6	7.6	20.7	20.7	77.1	77.1	5.4	5.4	12.6	12.6	4	4	89	89			<0.2	1.6	<0.2	1.6					
SR1A	Sunny	Moderate	15:55	5.6						Surface	1.0	-	-	29.3	29.3	7.8	7.8	13.6	13.6	105.9	105.9	7.5	7.5	9.8	9.8	4	4	-	-	819972	812656	-	-	-	-
											1.0	-	-	29.3	29.3	7.8	7.8	13.5	13.5	105.9	105.9	7.5	7.5	9.8	9.8	4	4	-	-	-	-	-	-	-	-
											2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						4.6	-	-	28.3	28.3	7.6	7.6	20.3	20.3	82.4	82.6	5.7	5.7	11.2	11.2	5	5	-	-	-	-	-	-	-	-	-	-			
						4.6	-	-	28.3	28.3	7.6	7.6	20.3	20.3	82.7	82.7	5.8	5.8	11.2	11.2	5	5	-	-	-	-	-	-	-	-	-	-			
					SR2	Sunny	Moderate	16:04	4.6	Surface	1.0	0.3	144	29.1	29.1	7.8	7.8	14.9	14.9	104.4	104.3	7.4	7.4	10.1	10.1	4	4	83	84	821461	814183	<0.2	1.8	<0.2	1.8
											1.0	0.3	149	29.1	29.1	7.8	7.8	14.9	14.9	104.1	104.1	7.4	7.4	10.1	10.1	4	4	83	84			<0.2	1.8	<0.2	1.8
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	3.6	0.2	127	28.4						28.4	7.7	7.7	20.0	20.0	81.4	81.4	5.7	5.7	10.3	10.3	4	4	84	85			<0.2	1.8	<0.2	1.8					
	3.6	0.2	129	28.4						28.4	7.7	7.7	20.0	20.0	81.3	81.3	5.7	5.7	10.3	10.3	5	5	85	85			<0.2	1.8	<0.2	1.8					
SR3	Sunny	Moderate	14:49	8.8						Surface	1.0	0.4	175	28.8	28.8	7.6	7.6	8.9	8.9	98.5	98.6	7.2	7.2	10.7	10.7	4	5	-	-	822128	807580	-	-	-	-
											1.0	0.5	177	28.8	28.8	7.6	7.6	8.9	8.9	98.6	98.6	7.2	7.2	10.7	10.7	5	5	-	-	-	-	-	-	-	-
											4.4	0.2	176	28.9	28.9	7.7	7.7	13.2	13.2	95.7	95.7	6.9	6.9	10.3	10.3	5	5	-	-	-	-	-	-	-	
					Middle	4.4	0.3	181	28.9	28.9	7.7	7.7	13.2	13.2	95.6	95.6	6.9	6.9	10.3	10.3	5	5	-	-	-	-	-	-	-	-					
						7.8	0.2	163	28.8	28.8	7.7	7.7	14.5	14.5	92.3	92.4	6.6	6.6	10.8	10.8	5	5	-	-	-	-	-	-	-						
						7.8	0.2	168	28.8	28.8	7.7	7.7	14.5	14.5	92.4	92.4	6.6	6.6	10.8	10.8	4	4	-	-	-	-	-	-	-						
					SR4A	Cloudy	Calm	15:49	8.5	Surface	1.0	0.6	89	28.5	28.5	8.0	8.0	11.6	11.6	116.1	116.1	8.4	8.4	4.3	4.3	4	5	-	-	817173	807786	-	-	-	-
											1.0	0.6	95	28.5	28.5	8.0	8.0	11.6	11.6	116.1	116.1	8.4	8.4	4.4	4.4	3	3	-	-	-	-	-	-		
											4.3	0.6	88	28.4	28.4	7.9	7.9	12.1	12.1	104.0	103.9	7.6	7.6	6.3	6.3	5	5	-	-	-	-	-	-		
Middle	4.3	0.6	88	28.4						28.4	7.9	7.9	12.1	12.1	103.7	103.7	7.5	7.5	6.5	6.5	5	5	-	-	-	-	-	-							
	7.5	0.4	82	27.9						27.9	7.8	7.8	15.4	15.4	87.8	86.9	6.3	6.3	9.2	9.2	7	7	-	-	-	-	-	-							
	7.5	0.4	84	27.9						27.9	7.8	7.8	15.4	15.4	86.0	86.0	6.2	6.2	9.3	9.3	6	6	-	-	-	-	-	-							
SR5A	Cloudy	Calm	16:03	4.7						Surface	1.0	0.0	100	28.6	28.6	8.0	8.0	14.9	14.9	118.3	118.3	8.4	8.4	6.5	6.5	5	4	-	-	816595	810672	-	-	-	-
											1.0	0.0	104	28.6	28.6	8.0	8.0	14.9	14.9	118.2	118.2	8.4	8.4	6.6	6.6										

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring

Water Quality Monitoring Results on 22 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)								
						Speed (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA					
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA			
C1	Cloudy	Moderate	09:53	8.8	Surface	1.0	0.4	39	28.1	28.1	7.8	7.8	11.0	11.0	97.9	98.0	7.2	7.2	4.4	4.4	4	4	84	86	87	815600	804256	<0.2	<0.2	1.0	1.0					
						1.0	0.4	41	28.1	28.1	7.8	7.8	11.0	11.0	98.0	98.0	7.2	7.2	4.4	4.4	4	4	86	86	87	815600	804256	<0.2	<0.2	1.0	1.0					
						4.4	0.3	28	28.2	28.2	7.8	7.8	13.0	13.0	97.1	97.1	7.1	7.1	4.5	4.5	4	4	86	86	87	815600	804256	<0.2	<0.2	1.0	1.0					
					Middle	4.4	0.4	30	28.2	28.2	7.8	7.8	13.0	13.0	97.0	97.0	7.0	7.0	4.5	4.5	4	4	86	86	87	815600	804256	<0.2	<0.2	1.0	1.0					
						7.8	0.3	359	28.0	28.0	7.8	7.8	14.6	14.6	88.9	88.6	6.4	6.4	5.6	5.6	4	4	90	89	87	815600	804256	<0.2	<0.2	1.1	1.1					
						7.8	0.3	23	28.0	28.0	7.8	7.8	14.6	14.6	88.3	88.3	6.4	6.4	5.4	5.4	5	5	89	89	87	815600	804256	<0.2	<0.2	1.0	1.0					
					C2	Sunny	Moderate	10:23	11.0	Surface	1.0	0.5	352	29.2	29.2	7.7	7.7	10.4	10.4	90.1	90.1	6.5	6.5	9.6	9.6	2	2	87	87	89	825690	806953	<0.2	<0.2	1.7	1.8
											1.0	0.5	324	29.2	29.2	7.7	7.7	10.4	10.4	90.1	90.1	6.5	6.5	9.6	9.6	3	3	87	87	89	825690	806953	<0.2	<0.2	1.9	1.9
											5.5	0.5	334	28.5	28.5	7.7	7.7	18.7	18.7	77.4	77.4	5.4	5.4	10.4	10.4	4	4	89	89	89	825690	806953	<0.2	<0.2	1.9	1.9
Middle	5.5	0.5	338	28.5						28.5	7.7	7.7	18.8	18.8	77.3	77.3	5.4	5.4	10.4	10.4	2	2	90	90	89	825690	806953	<0.2	<0.2	1.9	1.9					
	10.0	0.4	342	28.0						28.0	7.7	7.7	21.9	21.9	65.6	65.7	4.6	4.6	23.0	23.0	2	2	92	92	89	825690	806953	<0.2	<0.2	1.8	1.8					
	10.0	0.4	345	28.0						28.0	7.7	7.7	21.9	21.9	65.7	65.7	4.6	4.6	22.8	22.8	3	3	91	91	89	825690	806953	<0.2	<0.2	1.6	1.6					
C3	Sunny	Moderate	08:29	10.8						Surface	1.0	0.3	268	29.0	29.0	7.8	7.8	12.8	12.8	93.8	93.8	6.7	6.7	9.8	9.8	3	3	85	85	89	822112	817781	<0.2	<0.2	2.0	1.8
											1.0	0.3	282	29.0	29.0	7.8	7.8	12.8	12.8	93.7	93.7	6.7	6.7	9.8	9.8	4	4	85	85	89	822112	817781	<0.2	<0.2	1.8	1.8
											5.4	0.3	260	28.7	28.7	7.8	7.8	17.6	17.6	86.5	86.5	6.1	6.1	9.3	9.3	3	3	90	90	89	822112	817781	<0.2	<0.2	1.7	1.7
					Middle	5.4	0.3	276	28.7	28.7	7.8	7.8	17.6	17.6	86.4	86.4	6.1	6.1	9.3	9.3	3	3	90	90	89	822112	817781	<0.2	<0.2	1.7	1.7					
						9.8	0.3	285	27.8	27.8	7.9	7.9	25.0	25.0	74.7	74.8	5.1	5.1	8.8	8.8	4	4	90	90	89	822112	817781	<0.2	<0.2	1.8	1.8					
						9.8	0.4	305	27.8	27.8	7.9	7.9	25.0	25.0	74.9	74.9	5.1	5.1	8.8	8.8	3	3	91	91	89	822112	817781	<0.2	<0.2	1.8	1.8					
					IM1	Cloudy	Moderate	10:04	5.8	Surface	1.0	0.3	26	28.0	28.0	7.8	7.8	10.5	10.5	96.3	96.4	7.1	7.1	4.5	4.5	4	4	84	86	87	817966	807120	<0.2	<0.2	1.5	1.4
											1.0	0.3	26	28.0	28.0	7.8	7.8	10.5	10.5	96.5	96.5	7.1	7.1	4.5	4.5	3	3	86	86	87	817966	807120	<0.2	<0.2	1.4	1.4
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	4.8	0.2	349	28.1						28.1	7.8	7.8	11.5	11.5	97.7	97.8	7.2	7.2	4.4	4.4	4	4	90	88	87	817966	807120	<0.2	<0.2	1.4	1.4					
	4.8	0.2	321	28.1						28.1	7.8	7.8	11.5	11.5	97.8	97.8	7.2	7.2	4.4	4.4	4	4	88	88	87	817966	807120	<0.2	<0.2	1.4	1.4					
IM2	Cloudy	Moderate	10:10	7.6						Surface	1.0	0.4	40	28.0	28.0	7.8	7.8	10.4	10.4	94.6	94.7	7.0	7.0	4.6	4.6	2	2	86	84	88	818172	806178	<0.2	<0.2	1.6	1.6
											1.0	0.4	42	28.0	28.0	7.8	7.8	10.4	10.4	94.8	94.8	7.0	7.0	4.6	4.6	3	3	84	84	88	818172	806178	<0.2	<0.2	1.6	1.6
											3.8	0.4	6	28.2	28.2	7.8	7.8	12.7	12.7	97.2	97.1	7.1	7.1	4.5	4.5	3	3	89	88	87	818172	806178	<0.2	<0.2	1.5	1.5
					Middle	3.8	0.4	6	28.2	28.2	7.8	7.8	12.7	12.7	97.0	97.1	7.1	7.1	4.5	4.5	4	4	88	88	87	818172	806178	<0.2	<0.2	1.5	1.5					
						6.6	0.4	333	28.1	28.1	7.8	7.8	14.1	14.1	89.3	89.3	6.5	6.5	7.2	7.2	4	4	90	89	87	818172	806178	<0.2	<0.2	1.5	1.5					
						6.6	0.5	357	28.0	28.1	7.8	7.8	14.2	14.2	89.0	89.2	6.4	6.4	7.2	7.2	4	4	89	89	87	818172	806178	<0.2	<0.2	1.6	1.6					
					IM3	Cloudy	Moderate	10:16	7.8	Surface	1.0	0.3	20	28.1	28.1	7.7	7.7	10.6	10.6	94.3	94.3	7.0	7.0	4.4	4.4	2	2	83	85	87	818790	805576	<0.2	<0.2	1.2	1.3
											1.0	0.3	20	28.1	28.1	7.7	7.7	10.6	10.6	94.3	94.3	7.0	7.0	4.4	4.4	3	3	85	85	87	818790	805576	<0.2	<0.2	1.3	1.3
											3.9	0.5	353	28.2	28.2	7.8	7.8	13.2	13.2	95.1	95.1	6.9	6.9	4.6	4.6	3	3	89	88	87	818790	805576	<0.2	<0.2	1.4	1.4
Middle	3.9	0.6	325	28.2						28.2	7.8	7.8	13.2	13.2	95.0	95.1	6.9	6.9	4.6	4.6	4	4	88	88	87	818790	805576	<0.2	<0.2	1.2	1.2					
	6.8	0.4	321	27.5						27.5	7.8	7.8	23.4	23.5	68.5	68.6	4.8	4.8	14.0	14.0	4	4	90	89	87	818790	805576	<0.2	<0.2	1.2	1.2					
	6.8	0.5	350	27.5						27.5	7.8	7.8	23.5	23.5	68.6	68.6	4.8	4.8	14.0	14.0	3	3	89	89	87	818790	805576	<0.2	<0.2	1.2	1.2					
IM4	Cloudy	Moderate	10:24	7.7						Surface	1.0	0.5	12	28.1	28.1	7.8	7.8	10.0	10.0	92.1	92.0	6.8	6.8	4.4	4.4	3	3	84	86	87	819718	804611	<0.2	<0.2	1.4	1.4
											1.0	0.6	12	28.1	28.1	7.8	7.8	10.0	10.0	91.9	91.9	6.8	6.8	4.4	4.4	3	3	86	86	87	819718	804611	<0.2	<0.2	1.4	1.4
											3.9	0.6	353	28.1	28.1	7.8	7.8	12.4	12.4	89.7	89.6	6.6	6.6	4.5	4.5	3	3	89	87	87	819718	804611	<0.2	<0.2	1.4	1.4
					Middle	3.9	0.6	325	28.0	28.1	7.8	7.8	12.5	12.4	89.4	89.4	6.5	6.5	4.5	4.5	3	3	87	89	87	819718	804611	<0.2	<0.2	1.4	1.4					
						6.7	0.5	336	27.9	27.9	7.8	7.8	17.6	17.5	82.0	81.9	5.8	5.8	15.7	15.6	4	4	89	89	87	819718	804611	<0.2	<0.2	1.3	1.3					
						6.7	0.5	354	27.9	27.9	7.8	7.8	17.5	17.5	81.8	81.8	5.8	5.8	15.6	15.6	3	3	90	89	87	819718	804611	<0.2	<0.2	1.4	1.4					
					IM5	Cloudy	Moderate	10:33	7.8	Surface	1.0	0.7	35	28.3	28.3	7.7	7.7	9.8	9.8	94.0	94.0	6.9	6.9	4.3	4.3	3	3	81	83	87	820711	804862	<0.2	<0.2	1.4	1.4
											1.0	0.7	37	28.3	28.3	7.8	7.8	9.8	9.8	93.9	93.9	6.9	6.9	4.3	4.3	3	3	83	83	87	820711	804862	<0.2	<0.2	1.3	1.3
											3.9	0.7	18	28.1	28.1	7.8	7.8	12.1	12.1	90.3	90.1	6.6	6.6	5.3	5.3	3	3	87	88	87	820711	804862	<0.2	<0.2	1.3	1.3
Middle	3.9	0.8	19	28.1						28.1	7.8	7.8	12.1	12.1	89.9	89.9	6.6	6.6	5.9	5.9	3	3	88	88	87	820711	804862	<0.2	<0.2	1.3	1.3					
	6.8	0.6	28	27.6						27.6	7.8	7.8	21.2	21.2	74.5	74.7	5.2	5.2	12.9	12.9	4	4	88	88	87	820711	804862	<0.2	<0.2	1.3	1.3					
	6.8	0.7	30	27.6						27.6	7.8	7.8	21.1	21.1	74.9	74.9	5.2	5.2	12.9	12.9	3	3	90	89	87	820711	804862	<0.2	<0.2	1.3	1.3					
IM6	Cloudy	Moderate	10:38	7.4						Surface	1.0	0.7	46	28.2	28.2	7.8	7.8	10.4	10.4	96.4	96.3	7.1	7.1	4.7	4.7	3	3	82	84	87	821049	805811	<0.2	<0.2	1.4	1.4
											1.0	0.8</																								

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 22 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
						Speed (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA		
IM9	Sunny	Moderate	09:51	7.5	Surface	1.0	0.2	247	28.9	28.9	7.8	7.8	11.9	11.9	95.1	95.3	6.9	7.2	9.9	3	84	-	-	87	822094	808810	<0.2	2.2	2.0	2.0			
						1.0	0.2	263	28.9	29.1	7.8	7.8	11.9	11.9	95.4	95.4	6.9	7.2	9.9	4	84	-	-	87	-	-	<0.2	2.1	2.0	2.0			
						3.8	0.3	261	29.1	29.1	7.9	7.9	13.3	13.3	104.3	104.2	7.4	7.4	11.6	3	87	-	-	87	-	-	<0.2	2.1	2.0	2.0			
					Middle	3.8	0.3	264	29.1	29.1	7.9	7.9	13.3	13.3	104.0	104.0	7.4	7.4	11.6	3	88	-	-	87	-	-	<0.2	1.9	2.0	2.0			
						6.5	0.1	269	28.8	28.8	7.7	7.7	14.8	14.8	88.0	88.0	6.3	6.3	12.6	4	91	-	-	87	-	-	<0.2	1.8	2.0	2.0			
						6.5	0.1	272	28.8	28.8	7.7	7.7	14.8	14.8	88.0	88.0	6.3	6.3	12.6	3	90	-	-	87	-	-	<0.2	1.8	2.0	2.0			
					Bottom	1.0	0.6	308	29.1	29.1	7.9	7.9	13.0	13.0	100.1	100.1	7.2	7.2	10.3	4	83	-	-	87	-	-	<0.2	2.2	2.0	2.0			
						1.0	0.6	332	29.1	29.1	7.9	7.9	13.0	13.0	100.1	100.1	7.2	7.2	10.4	4	82	-	-	87	-	-	<0.2	2.0	2.0	2.0			
						4.0	0.5	314	28.8	28.8	7.8	7.8	14.7	14.7	86.6	86.6	6.2	6.2	11.1	4	83	-	-	87	-	-	<0.2	2.0	2.0	2.0			
IM10	Sunny	Moderate	09:43	8.0	Surface	1.0	0.6	308	29.1	29.1	7.9	7.9	13.0	13.0	100.1	100.1	7.2	7.2	10.4	4	82	-	-	87	822369	809782	<0.2	2.0	2.0	2.0			
						1.0	0.6	332	29.1	29.1	7.9	7.9	13.0	13.0	100.1	100.1	7.2	7.2	10.4	4	82	-	-	87	-	-	<0.2	2.0	2.0	2.0			
						4.0	0.5	314	28.8	28.8	7.8	7.8	14.7	14.7	86.6	86.6	6.2	6.2	11.1	4	83	-	-	87	-	-	<0.2	2.0	2.0	2.0			
					Middle	4.0	0.6	315	28.8	28.8	7.8	7.8	14.7	14.7	86.6	86.6	6.2	6.2	11.2	4	84	-	-	87	-	-	<0.2	1.9	2.0	2.0			
						7.0	0.3	297	28.4	28.4	7.7	7.7	18.5	18.5	74.7	74.7	5.2	5.2	17.8	5	94	-	-	87	-	-	<0.2	2.0	2.0	2.0			
						7.0	0.4	324	28.4	28.4	7.7	7.7	18.5	18.5	74.7	74.7	5.2	5.2	17.8	5	94	-	-	87	-	-	<0.2	2.1	2.0	2.0			
					Bottom	1.0	0.5	300	29.0	29.0	7.8	7.8	12.4	12.4	94.6	94.6	6.8	6.8	9.9	3	83	-	-	87	-	-	<0.2	1.8	1.7	1.7	1.7		
						1.0	0.5	300	29.0	29.0	7.8	7.8	12.4	12.4	94.6	94.6	6.8	6.8	10.0	4	83	-	-	87	-	-	<0.2	1.8	1.7	1.7	1.7		
						4.4	0.6	290	28.7	28.7	7.7	7.7	15.6	15.6	80.1	80.1	5.7	5.7	11.1	4	88	-	-	87	-	-	<0.2	1.8	1.7	1.7	1.7		
IM11	Sunny	Moderate	09:31	8.8	Surface	1.0	0.6	300	29.0	29.0	7.8	7.8	15.6	15.6	80.1	80.1	5.7	5.7	11.2	4	84	-	-	87	822061	811450	<0.2	1.8	1.7	1.7			
						4.4	0.7	301	28.7	28.7	7.7	7.7	15.6	15.6	80.0	80.0	5.7	5.7	11.2	4	84	-	-	87	-	-	<0.2	1.8	1.7	1.7	1.7		
						7.8	0.2	307	28.0	28.0	7.7	7.7	22.2	22.2	70.3	70.4	4.9	4.9	16.0	5	91	-	-	87	-	-	<0.2	1.6	1.7	1.7	1.7		
					Middle	7.8	0.2	318	28.0	28.0	7.7	7.7	22.2	22.2	70.4	70.4	4.9	4.9	15.9	5	90	-	-	87	-	-	<0.2	1.6	1.7	1.7	1.7		
						1.0	0.4	292	29.0	29.0	7.7	7.7	12.7	12.7	91.7	91.7	6.6	6.6	10.1	4	86	-	-	87	-	-	<0.2	1.8	1.6	1.6	1.6		
						1.0	0.4	308	29.0	29.0	7.7	7.7	12.7	12.7	91.7	91.7	6.6	6.6	10.1	3	86	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6		
					Bottom	4.3	0.6	283	28.9	28.9	7.8	7.8	14.4	14.4	88.3	88.3	6.3	6.3	10.5	3	90	-	-	87	-	-	<0.2	1.7	1.7	1.7	1.7		
						4.3	0.6	293	28.9	28.9	7.8	7.8	14.4	14.4	88.2	88.2	6.3	6.3	10.5	4	91	-	-	87	-	-	<0.2	1.9	1.7	1.7	1.7		
						7.6	0.3	309	28.2	28.2	7.7	7.7	20.7	20.7	78.0	78.0	5.4	5.4	10.5	4	92	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6		
IM12	Sunny	Moderate	09:25	8.6	Surface	1.0	0.4	292	29.0	29.0	7.7	7.7	20.7	20.7	78.0	78.0	5.4	5.4	10.5	4	92	-	-	87	821444	812043	<0.2	1.6	1.6	1.6			
						1.0	0.4	308	29.0	29.0	7.7	7.7	12.7	12.7	91.7	91.7	6.6	6.6	10.1	3	86	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6		
						4.3	0.6	283	28.9	28.9	7.8	7.8	14.4	14.4	88.3	88.3	6.3	6.3	10.5	4	91	-	-	87	-	-	<0.2	1.7	1.7	1.7	1.7		
					Middle	4.3	0.6	293	28.9	28.9	7.8	7.8	14.4	14.4	88.2	88.2	6.3	6.3	10.5	4	91	-	-	87	-	-	<0.2	1.9	1.7	1.7	1.7		
						7.6	0.3	309	28.2	28.2	7.7	7.7	20.7	20.7	78.0	78.0	5.4	5.4	10.5	4	92	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6		
						7.6	0.3	335	28.2	28.2	7.7	7.7	20.7	20.7	78.0	78.0	5.4	5.4	10.5	4	93	-	-	87	-	-	<0.2	1.7	1.6	1.6	1.6		
					Bottom	1.0	-	-	29.1	29.1	7.8	7.8	11.8	11.8	99.0	99.0	7.1	7.1	10.2	3	-	-	-	87	-	-	-	-	-	-	-	-	-
						1.0	-	-	29.1	29.1	7.8	7.8	11.8	11.8	98.9	98.9	7.1	7.1	10.2	2	-	-	-	87	-	-	-	-	-	-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-
SR1A	Sunny	Moderate	09:05	5.1	Surface	1.0	-	-	29.1	29.1	7.8	7.8	11.8	11.8	99.0	99.0	7.1	7.1	10.2	3	-	-	-	87	819976	812665	-	-	-	-			
						1.0	-	-	29.1	29.1	7.8	7.8	11.8	11.8	98.9	98.9	7.1	7.1	10.2	2	-	-	-	87	-	-	-	-	-	-	-	-	
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-
						4.1	-	-	29.0	29.0	7.8	7.8	14.8	14.8	97.4	97.4	6.9	6.9	10.7	4	-	-	-	87	-	-	-	-	-	-	-	-	-
						4.1	-	-	29.0	29.0	7.8	7.8	14.8	14.8	97.4	97.4	6.9	6.9	10.7	4	-	-	-	87	-	-	-	-	-	-	-	-	-
					Bottom	1.0	0.0	181	29.0	29.0	7.7	7.7	11.9	11.9	88.9	88.9	6.4	6.4	10.6	4	86	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6	1.6	1.6
						1.0	0.0	197	29.0	29.0	7.7	7.7	11.9	11.9	88.9	88.9	6.4	6.4	10.7	4	86	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6	1.6	1.6
						3.6	0.2	329	28.5	28.5	7.7	7.7	17.2	17.2	82.7	82.7	5.8	5.8	16.4	5	89	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6	1.6	1.6
SR2	Sunny	Moderate	08:51	4.6	Surface	1.0	0.0	181	29.0	29.0	7.7	7.7	11.9	11.9	88.9	88.9	6.4	6.4	10.6	4	86	-	-	87	821478	814166	<0.2	1.6	1.6	1.6			
						1.0	0.0	197	29.0	29.0	7.7	7.7	11.9	11.9	88.9	88.9	6.4	6.4	10.7	4	86	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6	1.6	1.6
						3.6	0.2	329	28.5	28.5	7.7	7.7	17.2	17.2	82.7	82.7	5.8	5.8	16.4	5	89	-	-	87	-	-	<0.2	1.6	1.6	1.6	1.6	1.6	1.6
					Middle	3.6	0.2	335	28.5	28.5	7.7	7.7	17.2	17.2	82.7	82.7	5.8	5.8	16.4	5	88	-	-	87	-	-	<0.2	1.5	1.6	1.6	1.6	1.6	1.6
						1.0	0.2	40	29.1	29.1	7.8	7.8	11.3	11.3	100.1	100.0	7.2	7.2	10.2	3	-	-	-	87	-	-	-	-	-	-	-	-	-
						1.0	0.2	42	29.1	29.1	7.8	7.8	11.3	11.3	99.9	99.9	7.2	7.2	10.3	3	-	-	-	87	-	-	-	-	-	-	-	-	-
					Bottom	4.6	0.2	323	28.7	28.7	7.7	7.7	13.6	13.6	85.1	85.0	6.1	6.1	10.3	4	-	-	-	87	-	-	-	-	-	-	-	-	-
						4.6	0.2	333	28.7	28.7	7.7	7.7	13.6	13.6	84.8	84.8	6.1	6.1	10.3	4	-	-	-	87	-	-	-	-	-	-	-	-	-
						8.1	0.2	45	28.4	28.4	7.7	7.7	18.7	18.7	80.7	80.8	5.7	5.7	10.2	4	-	-	-	87	-	-	-	-	-	-	-	-	-
SR3	Sunny</																																

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on

25 June 19

during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA		
C1	Rainy	Moderate	17:55	8.8	Surface	1.0	0.2	163	28.2	28.2	7.7	7.7	14.6	14.6	73.7	73.7	5.3	9.9	2	83	88	88	88	88	88	815629	804224	<0.2	1.3	1.3	1.3					
						1.0	0.2	172	28.2	7.7	7.7	14.6	14.6	73.7	73.7	5.3	9.9	3	86	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88		
						4.4	0.1	112	27.4	7.6	7.6	27.6	27.6	40.3	40.3	2.7	10.1	2	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
					Middle	4.4	0.1	113	27.4	7.6	7.6	27.6	27.6	40.3	40.3	2.7	10.2	3	90	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
						7.8	0.0	339	27.1	7.6	7.6	30.4	30.4	42.0	42.0	2.8	7.7	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
						7.8	0.0	312	27.1	7.6	7.6	30.4	30.4	42.0	42.0	2.8	7.7	3	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
C2	Rainy	Moderate	16:45	11.4	Surface	1.0	0.5	168	27.9	27.9	7.7	7.7	11.6	11.6	80.6	80.5	5.9	4.5	6	85	85	85	85	85	85	85	85	85	85	85	85	85				
						1.0	0.5	180	27.9	7.7	7.7	11.5	11.6	80.3	80.5	5.9	4.2	6	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86		
						5.7	0.2	179	27.9	7.7	7.7	14.2	14.2	77.7	78.1	5.6	3.6	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
					Middle	5.7	0.2	186	27.9	7.7	7.7	14.2	14.2	77.7	78.1	5.6	3.6	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
						10.4	0.1	171	27.1	7.7	7.7	24.5	24.5	55.6	55.8	3.9	4.3	6	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
						10.4	0.1	174	27.1	7.7	7.7	24.5	24.5	55.9	55.8	3.9	4.3	5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Bottom	1.0	0.1	240	28.4	7.9	7.9	11.8	11.8	98.0	97.9	7.1	2.6	4	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85						
	1.0	0.1	263	28.4	7.9	7.9	11.9	11.8	97.8	97.9	7.1	2.6	4	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84						
	7.1	0.1	348	26.6	7.7	7.7	26.2	26.2	52.3	52.3	3.6	2.3	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88					
C3	Rainy	Moderate	18:29	14.2	Surface	7.1	0.1	320	26.6	26.6	7.7	7.7	26.3	26.2	52.2	52.3	3.6	2.3	4	88	88	88	88	88	88	88	88	88	88	88	88	88				
						7.1	0.1	320	26.6	7.7	7.7	26.3	26.2	52.2	52.3	3.6	2.3	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88		
						13.2	0.1	223	25.6	7.7	7.7	31.5	31.5	45.4	46.0	3.1	2.1	4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
					Middle	13.2	0.1	236	25.6	7.7	7.7	31.5	31.5	46.6	46.0	3.2	2.2	3	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
						1.0	0.3	227	28.4	7.7	7.7	16.8	16.8	69.7	69.7	4.9	9.7	4	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	
						1.0	0.3	205	28.4	7.7	7.7	16.8	16.8	69.7	69.7	4.9	9.7	3	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	
IM1	Rainy	Moderate	17:33	5.6	Surface	4.6	0.1	219	27.5	27.5	7.6	7.6	28.8	28.8	52.8	52.8	3.6	10.8	4	88	88	88	88	88	88	88	88	88	88	88	88					
						4.6	0.1	237	27.5	7.6	7.6	28.8	28.8	52.8	52.8	3.6	10.8	4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Middle	4.6	0.1	219	27.5	7.6	7.6	28.8	28.8	52.8	52.8	3.6	10.8	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88		
						4.6	0.1	237	27.5	7.6	7.6	28.8	28.8	52.8	52.8	3.6	10.8	4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IM2	Rainy	Moderate	17:25	7.3	Surface	1.0	0.1	255	28.2	28.2	7.7	7.7	15.9	15.9	71.9	71.9	5.1	10.1	5	85	85	85	85	85	85	85	85	85	85	85	85					
						1.0	0.1	270	28.2	7.7	7.7	15.9	15.9	71.9	71.9	5.1	10.1	4	84	84	84	84	84	84	84	84	84	84	84	84	84	84				
						3.7	0.2	228	27.5	7.6	7.6	26.2	26.2	59.8	59.8	4.1	10.5	6	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					Middle	3.7	0.3	204	27.5	7.6	7.6	26.2	26.2	59.8	59.8	4.1	10.5	5	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
						6.3	0.2	203	27.2	7.6	7.6	29.5	29.5	53.3	53.3	3.6	10.6	5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
						6.3	0.2	211	27.2	7.6	7.6	29.5	29.5	53.3	53.3	3.6	10.6	6	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
IM3	Rainy	Moderate	17:16	7.4	Surface	1.0	0.3	210	28.1	28.1	7.7	7.7	18.5	18.5	65.9	66.1	4.7	10.2	4	84	84	84	84	84	84	84	84	84	84	84	84					
						1.0	0.4	225	28.1	7.7	7.7	18.5	18.5	66.2	66.1	4.7	10.2	5	86	86	86	86	86	86	86	86	86	86	86	86	86					
						3.7	0.4	248	27.5	7.6	7.6	26.0	26.0	63.2	63.2	4.3	10.6	4	89	89	89	89	89	89	89	89	89	89	89	89	89					
					Middle	3.7	0.4	220	27.5	7.6	7.6	26.0	26.0	63.2	63.2	4.3	10.6	5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90			
						6.4	0.2	216	27.1	7.6	7.6	30.3	30.3	52.3	52.3	3.5	12.1	4	90	90	90	90	90	90	90	90	90	90	90	90	90	90				
						6.4	0.2	205	27.1	7.6	7.6	30.3	30.3	52.3	52.3	3.5	12.1	5	90	90	90	90	90	90	90	90	90	90	90	90	90					
IM4	Rainy	Moderate	17:07	7.8	Surface	1.0	0.3	229	28.3	28.3	7.7	7.7	12.5	12.5	79.2	79.2	5.8	10.1	4	84	84	84	84	84	84	84	84	84	84	84						
						1.0	0.3	239	28.3	7.7	7.7	12.5	12.5	79.2	79.2	5.8	10.1	5	85	85	85	85	85	85	85	85	85	85	85	85						
						3.9	0.2	214	27.6	7.6	7.6	25.1	25.1	61.6	61.6	4.2	10.7	4	89	89	89	89	89	89	89	89	89	89	89	89						
					Middle	3.9	0.2	216	27.6	7.6	7.6	25.1	25.1	61.6	61.6	4.2	10.7	5	87	87	87	87	87	87	87	87	87	87	87	87	87	87				
						6.8	0.2	218	27.0	7.6	7.6	30.6	30.6	55.5	55.5	3.7	13.2	5	90	90	90	90	90	90	90	90	90	90	90	90						
						6.8	0.2	219	27.0	7.6	7.6	30.6	30.6	55.5	55.5	3.7	13.2																			





Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring  
 Water Quality Monitoring Results on 25 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	12:12	8.8	Surface	1.0	0.4	41	28.5	28.5	7.7	7.7	15.0	15.0	75.6	75.6	5.4	4.6	9.4	3	84	87	815639	804238	<0.2	1.4	1.3	1.3								
						1.0	0.4	44	28.5	7.7	7.7	15.0	15.0	75.6	75.6	5.4	4.6	9.4	3	86	87	<0.2	1.4	1.3	1.3											
						4.4	0.3	22	27.9	27.9	7.7	7.7	22.9	22.9	53.5	53.5	3.7	4.6	9.8	4	86	87	<0.2	1.4	1.3	1.3										
					Middle	4.4	0.4	23	27.9	27.9	7.7	7.7	22.9	22.9	53.5	53.5	3.7	4.6	9.8	3	86	87	<0.2	1.4	1.3	1.3										
						7.8	0.3	340	27.3	27.3	7.6	7.6	26.5	26.5	54.1	54.1	3.7	3.7	12.1	4	90	88	<0.2	1.2	1.2	1.2										
						7.8	0.3	10	27.3	27.3	7.6	7.6	26.5	26.5	54.1	54.1	3.7	3.7	12.1	4	89	88	<0.2	1.2	1.2	1.2										
C2	Cloudy	Moderate	13:27	8.6	Surface	1.0	0.2	281	27.9	27.9	7.6	7.6	10.6	10.7	78.1	78.0	6.0	5.0	5.4	8	84	88	825702	806934	<0.2	1.9	1.8	1.8								
						1.0	0.2	294	27.9	27.9	7.6	7.6	10.6	10.7	77.9	78.0	5.9	5.0	5.5	8	85	88	<0.2	1.9	1.8	1.8										
						4.3	0.2	289	27.4	27.4	7.7	7.7	22.3	22.2	58.2	58.1	4.1	4.6	3.5	10	89	88	<0.2	1.7	1.7	1.7										
					Middle	4.3	0.3	292	27.4	27.4	7.7	7.7	22.3	22.2	57.9	57.9	4.1	4.6	3.5	10	89	88	<0.2	1.7	1.7	1.7										
						7.6	0.2	300	26.7	26.7	7.6	7.6	27.3	27.3	48.9	48.9	3.4	3.4	4.8	11	90	88	<0.2	1.7	1.7	1.7										
						7.6	0.2	313	26.7	26.7	7.6	7.6	27.3	27.3	49.3	49.1	3.4	3.4	4.8	10	90	88	<0.2	1.6	1.6	1.6										
C3	Cloudy	Moderate	11:24	14.4	Surface	1.0	0.2	228	27.6	27.6	7.8	7.8	14.3	14.3	84.8	84.7	6.2	5.8	2.9	4	85	86	822095	817806	<0.2	1.6	1.6	1.6								
						1.0	0.2	245	27.6	27.6	7.8	7.8	14.3	14.3	84.5	84.7	6.1	5.8	2.9	4	85	86	<0.2	1.6	1.6	1.6										
						7.2	0.2	268	27.6	27.6	7.8	7.8	18.0	18.1	75.5	75.3	5.4	4.1	2.4	5	86	86	<0.2	1.5	1.5	1.5										
					Middle	7.2	0.2	278	27.6	27.6	7.7	7.7	18.1	18.1	75.1	75.3	5.4	4.1	2.4	4	86	86	<0.2	1.6	1.6	1.6										
						13.4	0.3	307	26.6	26.6	7.7	7.7	26.7	26.7	59.2	59.6	4.1	4.1	2.1	5	88	88	<0.2	1.7	1.7	1.7										
						13.4	0.3	325	26.7	26.7	7.7	7.7	26.6	26.6	59.9	59.9	4.1	4.1	2.1	4	88	88	<0.2	1.7	1.7	1.7										
IM1	Cloudy	Moderate	12:33	5.6	Surface	1.0	0.0	5	28.5	28.5	7.8	7.8	15.0	15.0	74.0	74.0	5.3	5.3	9.7	5	86	87	817972	807138	<0.2	1.5	1.5	1.5								
						1.0	0.0	5	28.5	28.5	7.8	7.8	15.0	15.0	74.0	74.0	5.3	5.3	9.7	4	84	84	<0.2	1.5	1.5	1.5										
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
					Middle	4.6	0.3	325	27.7	27.7	7.6	7.6	26.2	26.2	54.9	54.9	3.7	3.7	10.3	5	88	88	<0.2	1.4	1.4	1.4										
						4.6	0.3	337	27.7	27.7	7.6	7.6	26.2	26.2	54.9	54.9	3.7	3.7	10.3	4	89	88	<0.2	1.4	1.4	1.4										
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
IM2	Cloudy	Moderate	12:39	7.6	Surface	1.0	0.4	12	28.4	28.4	7.8	7.8	15.1	15.1	80.8	80.8	5.8	4.6	9.6	3	83	87	818185	806157	<0.2	1.3	1.3	1.3								
						1.0	0.4	13	28.4	28.4	7.8	7.8	15.1	15.1	80.8	80.8	5.8	4.6	9.6	4	85	85	<0.2	1.3	1.3	1.3										
						3.8	0.2	32	27.8	27.8	7.7	7.7	24.6	24.6	47.6	47.6	3.3	4.6	10.2	4	89	87	<0.2	1.4	1.4	1.4										
					Middle	3.8	0.2	32	27.8	27.8	7.7	7.7	24.6	24.6	47.6	47.6	3.3	4.6	10.2	4	87	87	<0.2	1.3	1.3	1.3										
						6.6	0.2	325	27.2	27.2	7.6	7.6	29.8	29.8	48.1	48.1	3.2	3.2	13.9	6	90	90	<0.2	1.3	1.3	1.3										
						6.6	0.3	350	27.2	27.2	7.6	7.6	29.8	29.8	48.1	48.1	3.2	3.2	13.9	6	90	90	<0.2	1.3	1.3	1.3										
IM3	Cloudy	Moderate	12:49	7.7	Surface	1.0	0.2	279	28.3	28.3	7.7	7.7	17.6	17.6	68.7	68.7	4.9	4.0	9.9	6	86	88	818795	805570	<0.2	1.3	1.3	1.3								
						1.0	0.2	306	28.3	28.3	7.7	7.7	17.6	17.6	68.7	68.7	4.9	4.0	9.9	5	84	84	<0.2	1.4	1.4	1.4										
						3.9	0.3	348	27.7	27.7	7.6	7.6	26.7	26.7	44.8	44.8	3.0	4.0	10.1	5	90	87	<0.2	1.3	1.3	1.3										
					Middle	3.9	0.3	359	27.7	27.7	7.6	7.6	26.7	26.7	44.8	44.8	3.0	4.0	10.1	6	87	87	<0.2	1.3	1.3	1.3										
						6.7	0.3	315	27.2	27.2	7.6	7.6	29.8	29.8	51.3	51.3	3.5	3.5	12.7	6	90	90	<0.2	1.4	1.4	1.4										
						6.7	0.3	323	27.2	27.2	7.6	7.6	29.8	29.8	51.3	51.3	3.5	3.5	12.7	5	90	90	<0.2	1.5	1.5	1.5										
IM4	Cloudy	Moderate	12:58	7.9	Surface	1.0	0.3	313	28.4	28.4	7.7	7.7	13.5	13.5	76.1	76.1	5.5	4.5	10.5	5	84	87	819704	804609	<0.2	1.3	1.3	1.3								
						1.0	0.3	333	28.4	28.4	7.7	7.7	13.5	13.5	76.1	76.1	5.5	4.5	10.5	5	84	84	<0.2	1.2	1.2	1.2										
						4.0	0.3	352	27.9	27.9	7.6	7.6	22.7	22.7	51.3	51.3	3.5	4.5	10.3	5	89	89	<0.2	1.3	1.3	1.3										
					Middle	4.0	0.3	324	27.9	27.9	7.6	7.6	22.7	22.7	51.3	51.3	3.5	4.5	10.3	6	87	87	<0.2	1.3	1.3	1.3										
						6.9	0.3	22	27.1	27.1	7.6	7.6	30.4	30.4	34.0	34.0	2.3	2.3	11.5	7	90	90	<0.2	1.3	1.3	1.3										
						6.9	0.3	22	27.1	27.1	7.6	7.6	30.4	30.4	34.0	34.0	2.3	2.3	11.5	7	90	90	<0.2	1.3	1.3	1.3										
IM5	Cloudy	Moderate	13:11	7.6	Surface	1.0	0.4	227	28.4	28.4	7.7	7.7	10.7	10.7	82.1	82.0	6.0	5.0	10.6	6	84	88	820742	804859	<0.2	1.5	1.5	1.5								
						1.0	0.5	244	28.4	28.4	7.7	7.7	10.7	10.7	81.9	82.0	6.0	5.0	10.6	6	85	88	<0.2	1.6	1.6	1.6										
						3.8	0.2	272	28.0	28.0	7.7	7.7	17.8	17.8	56.1	56.1	4.0	4.0	10.6	6	88	88	<0.2	1.6	1.6	1.6										
					Middle	3.8	0.2	288	28.0	28.0	7.7	7.7	17.8	17.8	56.1	56.1	4.0	4.0	10.6	7	88	88	<0.2	1.7	1.7	1.7										
						6.6	0.5	355	27.2	27.2	7.6	7.6	29.9	29.9	37.1	37.1	2.5	2.5	15.0	7	90	90	<0.2	1.7	1.7	1.7										
						6.6	0.5	327	27.2	27.2	7.6	7.6	29.9	29.9	37.1	37.1	2.5	2.5	15.0	7	90	90	<0.2	1.7	1.7	1.7										
IM6	Cloudy	Moderate	13:18	7.4	Surface	1.0	0.4	270	28.6	28.6	7.7	7.7	8.7	8.7	81.1	81.1	6.0	5.4	11.7	7	82	87	821068	805812	<0.2	1.5	1.5	1.5								
						1.0	0.4	280	28.6	28.6	7.7	7.7	8.7	8.7	81.1	81.1	6.0	5.4	11.7	7	85	85	<0.2	1.5	1.5	1.5										
						3.7	0.3	277	28.2	28.2	7.7	7.7	15.1	15.1	67.1	67.1	4.8	4.8	14.6	7	88	87	<0.2	1.6	1.6	1.6										
					Middle	3.7	0.4	282	28.2	28.2	7.7	7.7	15.1	15.1	67.1	67.1	4.8	4.8	14.6	6	87	87	<0.2	1.6	1.6	1.6										
						6.4	0.2	73	27.3	27.3	7.6	7.6	29.2	29.2	43.9	43.9	3.0	3.0	15.9	8	90	90	<0.2	1.6	1.6	1.6										
						6.4	0.3	76	27.3	27.3	7.6	7.6	29.2	29.2	43.9	43.9	3.0	3.0																		

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring  
 Water Quality Monitoring Results on 25 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Cloudy	Moderate	12:53	7.3	Surface	1.0	0.2	220	27.9	27.9	7.7	7.7	8.9	8.8	88.5	88.5	6.6	6.5	5.3	8	82	85	85	85	85	822083	808815	<0.2	1.9					
						1.0	0.2	237	27.9	27.9	7.7	7.7	8.8	8.8	88.4	88.4	6.6	6.5	5.3	8	82	85	85	85	85	85	85	85	<0.2	1.8				
						3.7	0.1	233	27.8	27.8	7.7	7.7	10.4	10.4	85.2	85.1	6.3	6.3	4.4	4.6	8	85	85	85	85	85	85	85	<0.2	1.7				
					Middle	3.7	0.1	242	27.8	27.8	7.7	7.7	10.4	10.4	85.0	85.1	6.3	6.3	4.4	4.6	9	85	85	85	85	85	85	85	85	<0.2	1.8			
						6.3	0.2	307	27.6	27.6	7.7	7.7	19.1	19.1	71.7	71.8	5.1	5.1	3.9	5.1	8	88	88	88	88	88	88	88	88	<0.2	1.7			
						6.3	0.2	309	27.8	27.8	7.7	7.7	19.1	19.1	71.8	71.8	5.1	5.1	4.1	5.1	9	88	88	88	88	88	88	88	88	<0.2	1.6			
					Bottom	1.0	0.2	283	27.8	27.8	7.7	7.7	7.0	7.0	89.9	89.8	6.8	6.5	5.7	6	85	85	85	85	85	85	85	85	85	85	<0.2	1.8		
						1.0	0.2	313	27.8	27.8	7.7	7.7	7.0	7.0	89.6	89.8	6.8	6.5	5.7	6	85	85	85	85	85	85	85	85	85	85	<0.2	1.9		
						4.4	0.4	327	27.8	27.8	7.7	7.7	11.2	11.2	84.2	84.1	6.2	6.2	4.1	5.0	6	89	89	89	89	89	89	89	89	<0.2	1.9			
Middle	4.4	0.5	333	27.8	27.8	7.7	7.7	11.2	11.2	84.0	84.1	6.2	6.2	4.1	5.0	6	89	89	89	89	89	89	89	89	<0.2	1.9								
	7.7	0.2	291	27.5	27.5	7.7	7.7	21.2	21.2	58.3	58.4	4.1	4.1	5.3	7	90	90	90	90	90	90	90	90	<0.2	1.8									
	7.7	0.2	318	27.4	27.4	7.7	7.7	21.2	21.2	58.4	58.4	4.1	4.1	5.3	7	90	90	90	90	90	90	90	90	<0.2	1.8									
Surface	1.0	0.2	283	27.9	27.9	7.7	7.7	11.0	11.0	86.8	86.5	6.4	6.4	3.7	6	86	86	86	86	86	86	86	86	86	86	<0.2	1.7							
	1.0	0.2	283	27.9	27.9	7.7	7.7	11.0	11.0	86.1	86.4	6.4	5.7	3.7	6	86	86	86	86	86	86	86	86	86	86	<0.2	1.7							
	4.2	0.3	288	27.8	27.8	7.7	7.7	17.7	17.7	70.4	70.4	5.0	5.0	3.9	4.2	6	88	88	88	88	88	88	88	88	<0.2	1.8								
Middle	4.2	0.3	290	27.8	27.8	7.7	7.7	17.7	17.7	70.3	70.3	5.0	3.9	3.9	6	88	88	88	88	88	88	88	88	88	88	<0.2	1.6							
	7.3	0.3	286	27.0	27.0	7.6	7.6	24.8	24.8	55.7	56.0	3.9	3.9	5.2	6	90	90	90	90	90	90	90	90	<0.2	1.6									
	7.3	0.3	303	27.0	27.0	7.6	7.6	24.8	24.8	56.2	56.0	3.9	3.9	5.1	7	91	91	91	91	91	91	91	91	<0.2	1.8									
Surface	1.0	0.2	261	27.9	27.9	7.7	7.7	10.8	10.8	87.6	87.3	6.5	6.5	3.9	5	85	85	85	85	85	85	85	85	85	85	<0.2	1.8							
	1.0	0.2	265	27.9	27.9	7.7	7.7	10.8	10.8	86.9	86.9	6.4	5.8	3.9	5	85	85	85	85	85	85	85	85	85	<0.2	1.9								
	4.7	0.3	270	27.8	27.8	7.7	7.7	16.8	16.8	70.7	70.7	5.1	4.5	4.2	6	88	88	88	88	88	88	88	88	<0.2	1.8									
Middle	4.7	0.3	285	27.8	27.8	7.7	7.7	16.8	16.8	70.6	70.7	5.1	4.5	4.1	4.5	5	89	89	89	89	89	89	89	89	<0.2	1.8								
	8.4	0.2	273	27.2	27.2	7.6	7.6	24.6	24.6	56.3	57.3	3.9	4.0	5.6	6	89	89	89	89	89	89	89	89	<0.2	1.8									
	8.4	0.2	297	27.3	27.3	7.6	7.6	24.5	24.6	58.3	57.3	4.0	4.0	5.5	6	90	90	90	90	90	90	90	90	<0.2	1.8									
Surface	1.0	-	-	27.9	27.9	7.7	7.7	10.1	10.1	83.1	82.9	6.2	6.2	4.5	4	84	84	84	84	84	84	84	84	84	84	-	-							
	1.0	-	-	27.9	27.9	7.7	7.7	10.1	10.1	82.6	82.9	6.1	6.2	4.4	4	84	84	84	84	84	84	84	84	84	84	-	-							
	2.1	-	-	-	-	-	-	-	-	-	-	-	6.2	-	4	84	84	84	84	84	84	84	84	84	84	-	-							
Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4	4	84	84	84	84	84	84	84	84	84	-	-							
	3.1	-	-	27.8	27.9	7.7	7.7	16.5	16.4	72.3	72.5	5.2	5.2	4.4	4	84	84	84	84	84	84	84	84	84	-	-								
	3.1	-	-	27.9	27.9	7.7	7.7	16.3	16.4	72.6	72.5	5.2	5.2	4.3	4	84	84	84	84	84	84	84	84	84	-	-								
Surface	1.0	0.2	152	28.0	28.0	7.7	7.7	12.0	11.9	81.0	81.8	6.0	6.0	4.4	3	84	84	84	84	84	84	84	84	84	84	<0.2	1.7							
	1.0	0.2	154	28.0	28.0	7.7	7.7	12.0	11.9	81.6	81.6	6.0	6.0	4.4	4	84	84	84	84	84	84	84	84	84	<0.2	1.7								
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	4	84	84	84	84	84	84	84	84	<0.2	1.8								
Middle	4.5	0.0	292	28.0	28.0	7.7	7.7	14.9	14.9	81.4	81.6	5.9	5.9	3.9	4	87	87	87	87	87	87	87	87	87	<0.2	1.6								
	4.5	0.0	296	28.0	28.0	7.7	7.7	14.9	14.9	81.7	81.6	5.9	5.9	3.9	4	88	88	88	88	88	88	88	88	88	<0.2	1.7								
	1.0	0.3	247	27.9	27.9	7.7	7.7	9.4	9.4	85.7	85.8	6.4	6.2	4.9	6	86	86	86	86	86	86	86	86	86	-	-								
Surface	1.0	0.3	253	27.9	27.9	7.7	7.7	9.5	9.4	85.8	85.8	6.4	6.2	4.9	6	86	86	86	86	86	86	86	86	86	86	-	-							
	4.4	0.2	274	27.9	27.9	7.7	7.7	11.4	11.4	82.3	81.9	6.1	6.0	3.9	6	86	86	86	86	86	86	86	86	86	-	-								
	4.4	0.3	284	27.9	27.9	7.7	7.7	11.4	11.4	81.5	81.9	6.0	6.0	4.0	5	86	86	86	86	86	86	86	86	86	-	-								
Middle	7.8	0.1	174	27.1	27.1	7.6	7.6	22.7	23.5	51.2	51.0	3.6	3.6	6.5	5	86	86	86	86	86	86	86	86	86	-	-								
	7.8	0.1	176	27.1	27.1	7.6	7.6	24.3	23.5	50.8	51.0	3.5	3.6	6.9	6	86	86	86	86	86	86	86	86	86	-	-								
	1.0	0.1	236	28.4	28.4	7.7	7.7	17.2	17.2	69.9	69.9	4.9	4.4	10.9	6	86	86	86	86	86	86	86	86	86	-	-								
Surface	1.0	0.1	255	28.4	28.4	7.7	7.7	17.2	17.2	69.9	69.9	4.9	4.4	10.9	6	86	86	86	86	86	86	86	86	86	86	-	-							
	4.6	0.0	187	28.2	28.2	7.7	7.7	20.1	20.1	56.5	56.5	3.9	3.5	11.5	6	86	86	86	86	86	86	86	86	86	-	-								
	4.6	0.0	202	28.2	28.2	7.7	7.7	20.1	20.1	56.5	56.5	3.9	3.5	11.5	5	86	86	86	86	86	86	86	86	86	-	-								
Middle	8.1	0.1	222	27.3	27.3	7.6	7.6	29.3	29.3	52.5	52.5	3.5	3.5	11.8	7	86	86	86	86	86	86	86	86	86	-	-								
	8.1	0.1	233	27.3	27.3	7.6	7.6	29.3	29.3	52.5	52.5	3.5	3.5	11.9	7	86	86	86	86	86	86	86	86	86	-	-								
	1.0	0.2	274	28.8	28.8	7.8	7.8	14.5	14.5	86.6	86.6	6.2	6.2	9.5	3	86	86	86	86	86	86	86	86	86	-	-								
Surface	1.0	0.2	286	28.8	28.8	7.8	7.8	14.5	14.5	86.6	86.6	6.2	6.2	9.5	3	86	86	86	86	86	86	86	86	86	86	-	-							
	-	-	-																															





Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 27 June 19 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)				Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	14:03	8.3	Surface	1.0	0.1	68	29.5	29.5	7.9	7.9	7.9	8.0	86.5	86.5	6.3	5.7	6	84	88	815624	804255	<0.2	0.20	<0.2	<0.2	1.8	1.7				
						1.0	0.1	70	29.5	7.9	7.9	8.0	86.4	6.3	5.7	5	84	<0.2	0.20	<0.2				<0.2	1.7								
						4.2	0.1	71	28.4	28.4	7.8	7.8	15.2	15.2	6.5	4.0	6	89	<0.2	0.20				<0.2	<0.2	1.7							
					4.2	0.1	73	28.4	28.4	7.8	7.8	15.2	15.2	6.5	4.0	6	90	<0.2	0.20	<0.2				<0.2	1.7								
					7.3	0.1	9	27.1	27.1	7.7	7.6	28.0	27.9	53.8	3.7	3.9	12.4	5	90	<0.2				0.20	<0.2	<0.2	1.8						
					7.3	0.1	9	27.1	27.1	7.6	7.6	27.8	27.8	59.6	4.1	3.9	12.2	6	91	<0.2				0.20	<0.2	<0.2	1.7						
					1.0	0.6	16	28.0	28.0	7.4	7.4	8.2	8.2	67.8	5.1	7.3	7	85	<0.2	0.2				<0.2	<0.2	2.4							
					1.0	0.7	18	28.0	28.0	7.4	7.4	8.1	8.1	67.9	5.1	7.4	7	84	<0.2	0.2				<0.2	<0.2	2.3							
					5.9	0.4	17	27.2	27.2	7.6	7.6	21.7	21.7	50.4	3.5	4.3	3.8	7	89	<0.2				0.2	<0.2	<0.2	2.3						
5.9	0.5	19	27.2	27.2	7.6	7.6	21.7	21.7	50.4	3.5	4.3	3.8	7	88	<0.2	0.2	<0.2	<0.2	2.3														
10.8	0.1	63	26.5	26.5	7.6	7.6	26.7	26.8	39.8	2.8	2.8	3.6	8	90	<0.2	0.2	<0.2	<0.2	2.2														
10.8	0.1	67	26.4	26.4	7.6	7.6	26.9	26.9	39.8	2.8	2.8	3.6	7	90	<0.2	0.2	<0.2	<0.2	2.3														
C2	Fine	Moderate	13:06	11.8	Surface	1.0	0.4	286	28.2	28.2	7.7	7.7	12.8	12.8	80.0	5.8	3.7	5	85	88	825705	806936	<0.2	0.2	<0.2	<0.2	1.5	2.3					
						1.0	0.4	287	28.2	28.2	7.7	7.7	12.8	12.8	79.3	5.8	3.7	5	86				<0.2	0.2	<0.2	<0.2	1.4						
						6.2	0.2	218	26.5	26.6	7.7	7.6	25.3	25.2	48.1	3.4	4.6	2.5	6				88	<0.2	0.2	<0.2	<0.2		1.5				
					6.2	0.2	228	26.5	26.6	7.6	7.6	25.1	25.1	48.3	3.4	4.6	2.5	6	87				<0.2	0.2	<0.2	<0.2	1.7						
					11.4	0.1	292	26.0	26.0	7.6	7.6	28.5	28.5	38.9	2.7	2.7	3.5	6	90				<0.2	0.2	<0.2	<0.2	1.7						
					11.4	0.1	317	26.0	26.0	7.6	7.6	28.5	28.5	38.9	2.7	2.7	3.5	7	90				<0.2	0.2	<0.2	<0.2	1.6						
					1.0	0.4	27	29.1	29.1	8.1	8.1	5.9	5.9	100.4	7.5	7.5	5.7	7	85				<0.2	0.2	<0.2	<0.2	1.7						
					1.0	0.4	29	29.1	29.1	8.1	8.1	5.9	5.9	99.8	7.4	7.4	5.6	7	85				<0.2	0.2	<0.2	<0.2	1.6						
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-		-	-	-	-	<0.2
4.4	0.3	323	27.2	27.2	7.7	7.7	27.4	27.2	86.2	4.5	4.5	7.4	9	88	<0.2	0.2	<0.2	<0.2	1.7														
4.4	0.3	348	27.2	27.2	7.7	7.7	27.0	27.2	86.0	4.5	4.5	7.0	8	88	<0.2	0.2	<0.2	<0.2	1.7														
IM2	Cloudy	Moderate	13:32	6.9	Surface	1.0	0.2	40	28.9	28.9	7.9	7.9	11.9	11.9	79.8	5.8	4.2	5	85	87	818147	806143	<0.2	0.2	<0.2	<0.2	2.5	2.4					
						1.0	0.2	39	28.9	28.9	7.9	7.9	11.9	11.9	79.6	5.7	4.1	5	85				<0.2	0.2	<0.2	<0.2	2.5						
						3.5	0.1	38	27.5	27.5	7.8	7.8	23.7	23.8	57.2	4.0	4.9	3.5	7				86	<0.2	0.2	<0.2	<0.2		2.5				
					3.5	0.1	38	27.5	27.5	7.8	7.8	23.9	23.8	57.0	3.9	3.6	3.7	7	87				<0.2	0.2	<0.2	<0.2	2.4						
					5.9	0.1	31	27.1	27.1	7.7	7.7	28.0	28.0	51.3	3.5	3.5	2.9	6	89				<0.2	0.2	<0.2	<0.2	2.3						
					5.9	0.1	33	27.1	27.1	7.7	7.7	27.9	28.0	51.1	3.5	3.5	2.8	6	89				<0.2	0.2	<0.2	<0.2	2.3						
					1.0	0.3	31	29.4	29.4	7.9	7.9	8.5	8.5	83.4	6.1	6.1	5.8	6	84				<0.2	0.2	<0.2	<0.2	2.1						
					1.0	0.3	36	29.4	29.4	7.9	7.9	8.5	8.5	83.2	6.1	6.1	5.8	7	84				<0.2	0.2	<0.2	<0.2	2.1						
					3.6	0.4	43	28.4	28.4	7.8	7.8	16.2	16.6	64.6	4.6	5.4	4.9	6	88				<0.2	0.2	<0.2	<0.2	2.2						
3.6	0.4	45	28.3	28.4	7.8	7.8	16.9	16.6	64.8	4.6	5.4	4.7	6	89	<0.2	0.2	<0.2	<0.2	2.3														
6.1	0.3	60	27.3	27.3	7.6	7.6	26.7	26.7	54.2	3.7	4.0	3.2	6	89	<0.2	0.2	<0.2	<0.2	2.2														
6.1	0.3	62	27.3	27.3	7.6	7.6	26.7	26.7	62.3	3.3	4.0	3.3	7	89	<0.2	0.2	<0.2	<0.2	2.2														
IM4	Cloudy	Moderate	13:21	7.4	Surface	1.0	0.6	28	28.9	28.9	7.8	7.8	6.7	6.6	82.5	6.1	6.6	7	83	86	819701	804602	<0.2	0.2	<0.2	<0.2	2.4	2.3					
						1.0	0.6	29	28.9	28.9	7.8	7.8	6.6	6.6	82.4	6.1	6.7	7	87				<0.2	0.2	<0.2	<0.2	2.2						
						3.7	0.1	26	27.5	27.5	7.7	7.7	24.4	24.5	42.0	2.9	4.5	4.6	7				84	<0.2	0.2	<0.2	<0.2		2.2				
					3.7	0.1	29	27.5	27.5	7.7	7.7	24.6	24.5	43.1	2.9	4.5	4.6	7	84				<0.2	0.2	<0.2	<0.2	2.3						
					6.4	0.1	33	27.3	27.3	7.7	7.7	26.2	26.3	52.4	3.6	3.6	4.1	7	90				<0.2	0.2	<0.2	<0.2	2.3						
					6.4	0.1	37	27.3	27.3	7.7	7.7	26.4	26.3	52.3	3.6	3.6	4.1	6	90				<0.2	0.2	<0.2	<0.2	2.3						
					1.0	0.6	23	29.1	29.1	7.9	7.9	6.5	6.5	80.4	6.0	6.0	6.0	8	81				<0.2	0.2	<0.2	<0.2	2.4						
					1.0	0.6	26	29.0	29.0	7.9	7.9	6.4	6.5	80.2	6.0	6.0	5.8	7	82				<0.2	0.2	<0.2	<0.2	2.4						
					3.5	0.5	25	28.2	28.2	7.8	7.8	15.6	15.6	68.1	4.9	5.5	6.2	8	84				<0.2	0.2	<0.2	<0.2	2.5						
3.5	0.5	25	28.2	28.2	7.8	7.8	15.6	15.6	68.0	4.9	5.5	6.1	7	85	<0.2	0.2	<0.2	<0.2	2.3														
5.9	0.3	29	27.5	27.5	7.7	7.7	23.5	23.5	55.1	3.8	3.8	11.9	7	88	<0.2	0.2	<0.2	<0.2	2.3														
5.9	0.4	25	27.5	27.5	7.7	7.7	23.5	23.5	55.0	3.8	3.8	11.7	8	88	<0.2	0.2	<0.2	<0.2	2.2														
IM6	Cloudy	Moderate	13:08	7.0	Surface	1.0	0.5	22	29.3	29.3	7.8	7.8	8.9	8.8	84.7	6.2	5.4	5	82	85	821049	805841	<0.2	0.2	<0.2	<0.2	2.4	2.4					
						1.0	0.6	23	29.2	29.2	7.8	7.8	8.8	8.8	84.6	6.2	5.2	6	82				<0.2	0.2	<0.2	<0.2	2.3						
						3.5	0.6	16	28.7	28.7	7.8	7.8	11.8	11.9	74.3	5.4	5.8	4.4	7				85	<0.2	0.2	<0.2	<0.2		2.5				
					3.5	0.6	18	28.7	28.7	7.8	7.8	11.9	11.9	74.0	5.4	5.8	4.4	6	85				<0.2	0.2	<0.2	<0.2	2.3						
					6.0	0.4	0	27.4	27.5	7.7	7.7	24.5	24.5	52.1	3.6	3.8	23.7	6	88				<0.2	0.2	<0.2	<0.2	2.4						
					6.0	0.4	0	27.5	27.5	7.7	7.7	24.5	24.5	52.2	3.9	3.8	23.2	6	88				<0.2	0.2	<0.2	<0.2	2.3						
					1.0	0.6	12	28.6	28.6	7.8	7.8	10.9	10.9	74.1	5.4	5.3	4.2	5	81				<0.2	0.2	<0.2	<0.2	2.3						
					1.0	0.6	12	28.6	28.6	7.8	7.8	10.9	10.9	73.6	5.4	5.3	4.2	5	82				<0.2	0.2	<0.2	<0.2	2.3						
					3.7	0.6	15	28.5	28.5	7.8	7.8	12.9	13.0	72.1	5.2	5.3	4.2	4	85				<0.2	0.2	<0.2	<0.2	2.0						
3.7	0.6	16	28.5	28.5	7.8	7.8	13.0	13.0	71.7	5.2	5.2	4.2	6	85	<0.2	0.2	<0.2	<0.2	1.9														
6.4	0.3	13	27.8	27.																													

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on

27 June 19

during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)				Nickel (µg/L)			
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	13:39	6.8	Surface	1.0	0.2	297	28.2	28.2	7.5	7.5	6.6	6.6	72.0	72.0	5.4	5.4	6.9	6	86	88	88	88	88	822071	808825	<0.2	0.20	<0.2	<0.2	1.8	1.8	
						1.0	0.2	285	28.2	7.5	7.5	6.6	6.6	72.0	72.0	5.4	5.4	6.9	6	84	84	88	88											
						3.4	0.1	245	28.2	7.6	7.6	9.8	9.7	71.0	70.8	5.3	5.3	6.2	5	88	88	88	88											
					Middle	3.4	0.1	247	28.2	28.2	7.6	7.6	9.7	9.7	70.5	70.5	5.2	5.2	6.3	6	89	89	88	88										
						5.8	0.2	269	27.2	27.2	7.6	7.6	22.0	22.0	52.6	52.6	3.7	3.7	4.8	4	89	89	88	88										
						5.8	0.2	273	27.2	27.2	7.6	7.6	22.1	22.0	52.6	52.6	3.7	3.7	4.7	6	89	89	88	88										
					Bottom	1.0	0.3	289	28.1	28.1	7.5	7.5	10.4	10.4	69.2	69.2	5.1	5.1	6.3	8	84	84	88	88										
						1.0	0.3	285	28.1	28.1	7.5	7.5	10.5	10.4	69.2	69.2	5.1	5.1	6.2	7	85	85	88	88										
						3.6	0.2	278	27.9	27.9	7.6	7.6	13.9	13.9	66.4	66.2	4.8	4.8	5.0	7	88	88	88	88										
Middle	3.6	0.2	279	27.9	27.9	7.6	7.6	13.9	13.9	65.9	66.2	4.8	4.8	5.0	6	87	87	88	88															
	6.2	0.1	248	27.1	27.1	7.6	7.6	22.7	22.6	48.9	48.9	3.4	3.4	6.8	6	90	90	88	88															
	6.2	0.1	231	27.2	27.2	7.6	7.6	22.6	22.6	48.9	48.9	3.4	3.4	6.7	6	89	89	88	88															
Bottom	1.0	0.3	265	28.4	28.4	7.5	7.5	7.9	7.9	71.8	71.7	5.4	5.4	6.7	7	86	86	88	88															
	1.0	0.3	252	28.3	28.3	7.5	7.5	7.9	7.9	71.6	71.6	5.3	5.3	6.4	8	85	85	88	88															
	3.9	0.2	268	27.8	27.8	7.6	7.6	15.0	15.0	64.0	63.8	4.6	4.6	4.9	8	89	89	88	88															
Middle	3.9	0.2	270	27.8	27.8	7.6	7.6	15.0	15.0	63.8	63.8	4.6	4.6	4.9	7	87	87	88	88															
	6.8	0.2	228	27.0	27.0	7.6	7.6	26.0	25.9	50.8	50.8	3.5	3.5	6.5	7	89	89	88	88															
	6.8	0.2	203	27.0	27.0	7.6	7.6	25.9	25.9	50.8	50.8	3.5	3.5	6.4	8	90	90	88	88															
Bottom	1.0	0.1	213	28.4	28.4	7.5	7.5	7.0	7.0	74.3	74.3	5.6	5.6	7.0	8	86	86	88	88															
	1.0	0.1	224	28.4	28.4	7.5	7.5	7.0	7.0	74.3	74.3	5.6	5.6	7.0	8	87	87	88	88															
	4.2	0.2	243	28.0	28.0	7.6	7.6	12.9	12.9	67.0	67.0	4.9	4.9	5.0	7	88	88	88	88															
Middle	4.2	0.2	255	27.9	27.9	7.6	7.6	12.9	12.9	67.0	67.0	4.9	4.9	5.0	8	88	88	88	88															
	7.3	0.1	220	26.8	26.8	7.6	7.6	27.2	27.2	53.6	53.6	3.7	3.7	6.4	7	90	90	88	88															
	7.3	0.1	209	26.9	26.9	7.6	7.6	27.2	27.2	53.6	53.6	3.7	3.7	6.1	8	91	91	88	88															
Bottom	1.0	0.1	213	28.4	28.4	7.5	7.5	7.0	7.0	74.3	74.3	5.6	5.6	7.0	8	86	86	88	88															
	1.0	0.1	224	28.4	28.4	7.5	7.5	7.0	7.0	74.3	74.3	5.6	5.6	7.0	8	87	87	88	88															
	4.2	0.2	243	28.0	28.0	7.6	7.6	12.9	12.9	67.0	67.0	4.9	4.9	5.0	7	88	88	88	88															
Middle	4.2	0.2	255	27.9	27.9	7.6	7.6	12.9	12.9	67.0	67.0	4.9	4.9	5.0	8	88	88	88	88															
	7.3	0.1	220	26.8	26.8	7.6	7.6	27.2	27.2	53.6	53.6	3.7	3.7	6.4	7	90	90	88	88															
	7.3	0.1	209	26.9	26.9	7.6	7.6	27.2	27.2	53.6	53.6	3.7	3.7	6.1	8	91	91	88	88															
Bottom	1.0	-	-	29.1	29.1	7.7	7.7	7.9	7.9	90.5	90.5	6.7	6.7	6.1	7	-	-	-	-															
	1.0	-	-	29.1	29.1	7.7	7.7	7.9	7.9	90.4	90.4	6.6	6.6	6.1	7	-	-	-	-															
	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-															
Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-															
	3.9	-	-	28.0	28.0	7.6	7.6	14.2	14.2	71.2	71.2	5.2	5.2	5.5	7	-	-	-	-															
	3.9	-	-	28.0	28.0	7.6	7.6	14.3	14.2	71.2	71.2	5.2	5.2	5.5	7	-	-	-	-															
Bottom	1.0	0.1	231	28.7	28.7	7.7	7.7	7.9	7.9	88.2	88.0	6.5	6.5	5.4	6	85	85	88	88															
	1.0	0.1	238	28.6	28.6	7.7	7.7	7.9	7.9	87.8	87.8	6.5	6.5	5.2	5	87	87	88	88															
	3.7	0.2	234	28.1	28.1	7.6	7.6	12.6	12.6	76.6	76.5	5.6	5.6	6.3	5	90	90	88	88															
Middle	3.7	0.2	244	28.1	28.1	7.6	7.6	12.6	12.6	76.4	76.4	5.6	5.6	6.4	6	90	90	88	88															
	1.0	0.3	190	27.9	27.9	7.5	7.5	12.3	12.3	66.3	66.3	4.9	4.9	5.8	7	-	-	-	-															
	1.0	0.3	207	27.9	27.9	7.5	7.5	12.3	12.3	66.3	66.3	4.9	4.9	6.0	6	-	-	-	-															
Middle	4.1	0.3	145	27.8	27.8	7.6	7.6	15.1	15.1	64.4	64.4	4.7	4.7	4.8	7	-	-	-	-															
	4.1	0.3	166	27.8	27.8	7.6	7.6	15.1	15.1	64.3	64.4	4.6	4.6	4.8	6	-	-	-	-															
	7.1	0.2	204	27.0	27.0	7.6	7.6	23.3	23.3	50.2	50.2	3.5	3.5	4.8	4	-	-	-	-															
Bottom	7.1	0.2	210	27.0	27.0	7.6	7.6	23.4	23.3	50.2	50.2	3.5	3.5	4.9	4	-	-	-	-															
	1.0	0.4	247	29.7	29.7	8.1	8.1	9.1	9.1	102.8	102.8	7.4	7.4	3.9	4	-	-	-	-															
	1.0	0.4	269	29.7	29.7	8.1	8.1	9.1	9.1	102.7	102.8	7.4	7.4	3.9	6	-	-	-	-															
Middle	4.5	0.5	253	28.3	28.3	7.8	7.8	18.8	18.7	55.0	55.0	3.9	3.9	4.2	5	-	-	-	-															
	4.5	0.5	261	28.3	28.3	7.8	7.8	18.7	18.7	54.9	55.0	3.9	3.9	4.1	6	-	-	-	-															
	7.9	0.3	246	27.9	28.0	7.7	7.7	27.6	27.5	66.3	66.4	4.5	4.5	4.3	7	-	-	-	-															
Bottom	7.9	0.4	254	28.0	28.0	7.7	7.7	27.5	27.5	66.5	66.4	4.5	4.5	4.3	6	-	-	-	-															
	1.0	0.2	218	29.8	29.8	8.1	8.1	12.2	12.2	99.9	99.7	7.1	7.1	2.7	5	-	-	-	-															
	1.0	0.2	221	29.7	29.7	8.1	8.1	12.2	12.2	99.5	99.5	7.1	7.1	2.9	6	-	-	-	-															
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-															
	4.5	0.2	205	27.7	27.8	7.8	7.8	23.9	23.5	66.4	71.0	4.6	4.9	3.6	6	-	-	-	-															
	4.5	0.2	228	27.9	27.8	7.8	7.8	23.2	23.5	75.5	71.0	5.2	4.9	3.6	7	-	-	-	-															
Bottom	1.0	0.0	186	29.4	29.4	8.1	8.1	11.6	11.6	101.1	101.1	7.3	7.3	3.0	5	-	-	-	-															
	1.0	0.0	194	29.4	29.4	8.1	8.1	11.6	11.6	101.0	101.0	7.2	7.3	3.0	5	-	-	-	-															
	3.4	0.1	270	28.5	28.5	7.9	7.9	15.7	15.7	75.3	75.5	5.4	5.4	16.2	6	-	-	-	-															
Middle	3.4	0.1	286	28.5	28.5	7.9	7.9	15.7	15.7	75.7	75.7	5.4	5.4	17.0	5	-	-	-	-															
	1.0	0.1	191	28.6	28.6	7.8	7.8	12.9	13.0	91.0	90.8	6.6	6.5	3.7	4	-	-	-	-															
	1.0	0.1	200	28.6	28.6	7.8	7.8	13.1	13.0	90.6	90.8	6.5	6.5	3.7	4	-	-	-	-															
Middle	8.3	0.0	234	26.0	26.0	7.7	7.7	27.9	28.0	73.8	73.8	5.1	5.1	2.4	4	-	-	-	-															
	8.3	0.0	235	26.0	26.0	7.7	7.7	28.0	28.0	73.8	73.8	5.1	5.1	2.4	4</																			

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 29 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA			
C1	Cloudy	Moderate	11:15	8.6	Surface	1.0	0.4	190	29.5	29.5	8.2	8.2	6.1	6.1	116.5	116.0	8.6	7.4	5.1	3	80	85	85	85	85	815640	804245	<0.2	1.7	<0.2	1.6					
						1.0	0.4	208	29.4	29.5	8.2	8.2	115.5	116.0	8.5	7.4	5.0	3	81	85	85	85	<0.2	1.7				<0.2	1.6							
					Middle	4.3	0.5	226	28.8	28.8	7.8	7.8	10.5	10.5	85.8	85.5	6.3	4.6	3	85	85	85	85	<0.2				1.5	<0.2	1.6						
						4.3	0.6	246	28.8	28.8	7.8	7.8	10.5	10.5	85.1	85.5	6.2	4.6	4	85	85	85	85	<0.2				1.5	<0.2	1.6						
					Bottom	7.6	0.5	246	26.4	26.4	7.6	7.6	29.6	29.6	36.9	37.8	2.5	10.9	3	88	88	88	88	<0.2				1.5	<0.2	1.4						
						7.6	0.6	253	26.4	26.4	7.6	7.6	29.6	29.6	38.6	37.8	2.6	11.0	4	88	88	88	88	<0.2				1.4	<0.2	1.4						
C2	Sunny	Moderate	12:27	10.7	Surface	1.0	1.2	169	29.3	29.3	7.5	7.5	5.6	5.6	80.2	80.2	6.0	4.7	13.6	7	83	83	83	83	87	825658	806936	<0.2	2.2	<0.2	2.4					
						1.0	1.3	169	29.3	29.3	7.5	7.5	5.6	5.6	80.2	80.2	6.0	4.7	13.6	7	83	83	83	83				<0.2	2.4	<0.2	2.4					
					Middle	5.4	0.9	162	27.9	27.9	7.5	7.5	20.9	20.9	46.7	46.7	3.3	11.5	7	87	87	87	87	<0.2				2.2	<0.2	2.4						
						5.4	0.9	172	27.9	27.9	7.5	7.5	20.9	20.9	46.7	46.7	3.3	11.5	8	87	87	87	87	<0.2				2.4	<0.2	2.4						
					Bottom	9.7	0.2	145	27.2	27.2	7.6	7.6	26.4	26.4	41.1	41.1	2.8	10.9	7	91	91	91	91	<0.2				2.3	<0.2	2.3						
						9.7	0.2	150	27.1	27.1	7.6	7.6	26.5	26.4	41.1	41.1	2.8	10.9	8	91	91	91	91	<0.2				2.3	<0.2	2.3						
C3	Cloudy	Moderate	10:17	12.4	Surface	1.0	0.1	244	28.7	28.7	7.8	7.8	16.5	16.5	80.3	80.4	5.7	5.5	9.1	4	83	84	87	88	88	822087	817806	<0.2	1.6	<0.2	1.6					
						1.0	0.1	246	28.7	28.7	7.8	7.8	16.5	16.5	80.5	80.4	5.7	5.5	9.1	4	84	87	88	88				<0.2	1.6	<0.2	1.6					
					Middle	6.2	0.2	355	28.5	28.5	7.8	7.8	17.7	17.7	76.1	76.1	5.4	9.0	4	87	87	87	87	<0.2				1.6	<0.2	1.7						
						6.2	0.2	357	28.5	28.5	7.8	7.8	17.7	17.7	76.0	76.1	5.3	9.0	5	88	88	88	88	<0.2				1.6	<0.2	1.7						
					Bottom	11.4	0.3	100	27.0	27.0	7.7	7.7	26.5	26.5	56.9	56.9	3.9	9.0	4	92	92	92	92	<0.2				2.0	<0.2	1.8						
						11.4	0.4	104	27.0	27.0	7.7	7.7	26.5	26.5	56.9	56.9	3.9	9.0	5	91	91	91	91	<0.2				1.8	<0.2	1.8						
IM1	Cloudy	Calm	11:34	5.5	Surface	1.0	0.4	3	29.0	29.0	7.9	7.9	10.4	10.3	97.7	97.7	7.1	7.1	4.7	4	82	82	82	82	83	817929	807116	<0.2	1.5	<0.2	1.4					
						1.0	0.4	3	29.0	29.0	7.9	7.9	10.3	10.3	97.7	97.7	7.1	7.1	4.7	4	82	82	82	82				<0.2	1.4	<0.2	1.4					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-
					Bottom	4.5	0.2	345	27.3	27.3	7.6	7.6	23.2	23.4	65.4	65.7	4.6	4.6	4.3	4	84	85	85	85				<0.2	1.5	<0.2	1.5					
						4.5	0.2	317	27.3	27.3	7.6	7.6	23.5	23.4	65.9	65.7	4.6	4.6	4.5	5	85	85	85	85				<0.2	1.5	<0.2	1.5					
IM2	Cloudy	Moderate	11:41	6.7	Surface	1.0	0.4	220	28.6	28.7	7.9	7.9	13.6	13.5	84.3	84.3	6.1	4.8	5.1	6	84	86	86	86	86	818169	806163	<0.2	1.6	<0.2	1.6					
						1.0	0.4	225	28.7	28.7	7.9	7.9	13.4	13.5	84.3	84.3	6.1	4.8	5.1	5	84	86	86	86				<0.2	1.5	<0.2	1.6					
					Middle	3.4	0.3	220	27.5	27.5	7.7	7.7	23.6	23.5	48.4	48.6	3.4	5.4	5	86	86	86	86	<0.2				1.6	<0.2	1.6						
						3.4	0.4	233	27.5	27.5	7.7	7.7	23.3	23.5	48.8	48.6	3.4	5.5	6	86	86	86	86	<0.2				1.6	<0.2	1.6						
					Bottom	5.7	0.3	275	26.4	26.4	7.6	7.6	29.4	29.3	67.2	67.4	4.6	4.0	6	88	88	88	88	<0.2				1.6	<0.2	1.6						
						5.7	0.3	280	26.4	26.4	7.6	7.6	29.3	29.3	67.5	67.4	4.6	4.0	7	89	89	89	89	<0.2				1.6	<0.2	1.6						
IM3	Cloudy	Moderate	11:48	6.9	Surface	1.0	0.7	194	29.2	29.2	8.0	8.0	9.3	9.3	103.8	103.4	7.6	5.8	5.2	5	84	85	86	86	87	818762	805602	<0.2	1.6	<0.2	1.6					
						1.0	0.7	213	29.2	29.2	8.0	8.0	9.3	9.3	103.0	103.4	7.5	5.8	5.2	5	85	86	86	86				<0.2	1.6	<0.2	1.6					
					Middle	3.5	0.5	190	27.8	27.8	7.7	7.7	19.1	19.1	58.1	58.0	4.1	5.0	4	86	86	86	86	<0.2				1.6	<0.2	1.8						
						3.5	0.5	205	27.8	27.8	7.7	7.7	19.1	19.1	57.9	58.0	4.1	4.9	6	86	86	86	86	<0.2				1.8	<0.2	1.8						
					Bottom	5.9	0.2	215	26.3	26.3	7.6	7.6	29.9	29.8	58.3	59.0	4.0	4.3	6	89	89	89	89	<0.2				1.9	<0.2	1.8						
						5.9	0.2	225	26.3	26.3	7.6	7.6	29.6	29.8	59.6	59.0	4.1	4.5	4	89	89	89	89	<0.2				1.8	<0.2	1.8						
IM4	Cloudy	Moderate	12:00	7.5	Surface	1.0	1.2	187	29.3	29.3	8.0	8.0	6.4	6.4	107.4	107.1	7.9	5.9	5.5	4	85	85	88	88	87	819743	804615	<0.2	1.8	<0.2	1.8					
						1.0	1.2	192	29.2	29.2	8.0	8.0	6.4	6.4	106.8	107.1	7.9	5.9	5.5	5	85	85	88	88				<0.2	1.8	<0.2	1.8					
					Middle	3.8	0.9	194	27.5	27.5	7.6	7.6	21.1	21.1	56.0	56.3	3.9	11.7	6	88	88	88	88	<0.2				1.9	<0.2	1.8						
						3.8	0.9	205	27.5	27.5	7.6	7.6	21.1	21.1	56.6	56.3	4.0	11.6	6	88	88	88	88	<0.2				1.8	<0.2	1.8						
					Bottom	6.5	0.2	224	26.7	26.7	7.6	7.6	25.0	25.5	49.2	49.1	3.4	12.6	11	88	88	88	88	<0.2				2.0	<0.2	2.0						
						6.5	0.2	235	26.6	26.6	7.6	7.6	26.0	25.5	49.0	49.1	3.4	11.9	12	89	89	89	89	<0.2				2.0	<0.2	2.0						
IM5	Cloudy	Rough	12:13	6.2	Surface	1.0	0.9	194	29.2	29.2	8.0	8.0	7.5	7.4	105.5	105.4	7.8	6.9	5.5	4	86	86	88	88	88	820716	804866	<0.2	1.9	<0.2	1.9					
						1.0	0.9	197	29.2	29.2	8.0	8.0	7.5	7.4	105.2	105.4	7.7	6.9	5.6	5	86	86	88	88				<0.2	1.9	<0.2	1.9					
					Middle	3.1	0.9	222	28.7	28.7	7.7	7.7	11.8	11.8	84.7	84.8	6.1	4.3	4	88	88	88	88	<0.2				2.0	<0.2	1.9						
						3.1	0.9	238	28.7	28.7	7.7	7.7	11.8	11.8	84.8	84.8	6.1	4.3	4	88	88	88	88	<0.2				1.9	<0.2	1.9						
					Bottom	5.2	0.6	223	27.0	27.0	7.5	7.5	24.5	24.5	55.8	58.5	3.9	13.0	7	90	90	90	90	<0.2				1.9	<0.2	1.9						
						5.2	0.6	244	27.0	27.0	7.5	7.5	24.5	24.5	61.1	58.5	4.2	13.0	6	89	89	89	89	<0.2				1.8	<0.2	1.8						
IM6	Cloudy	Moderate	12:20	6.7	Surface	1.0	0.7	250	29.0	29.0	7.8	7.8	11.2	10.9	93.5	93.5	6.8	6.2	4.7	3	85	85	88	88	88	821043	805832	<0.2	1.8	<0.2	1.9					
						1.0	0.7	268	29.0	29.0	7.8	7.8	11.2	10.9	93.5</																					

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 29 June 19 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
IM9	Sunny	Moderate	11:50	7.1	Surface	1.0	0.5	138	29.5	29.5	7.7	7.7	9.9	9.9	89.3	89.2	6.5	6.4	10.6	6	83	88	822104	808797	<0.2	2.0	<0.2	1.8					
						1.0	0.5	149	29.5	7.7	7.7	9.9	9.9	89.0	89.0	6.4	6.4	10.7	5	84	88	822104	808797	<0.2	1.8	<0.2	1.8						
						3.6	0.2	134	28.9	7.6	7.6	14.4	14.4	71.7	71.7	5.1	5.1	10.8	5	87	88	822104	808797	<0.2	1.8	<0.2	1.8						
					Middle	3.6	0.2	144	28.9	7.6	7.6	14.4	14.4	71.6	71.6	5.1	5.1	10.8	6	88	88	822104	808797	<0.2	1.7	<0.2	1.9						
						6.1	0.2	110	28.2	7.6	7.6	19.3	19.3	55.3	55.4	3.9	3.9	22.0	5	92	88	822104	808797	<0.2	1.9	<0.2	1.8						
						6.1	0.2	113	28.2	7.6	7.6	19.3	19.3	55.4	55.4	3.9	3.9	22.2	5	91	88	822104	808797	<0.2	1.8	<0.2	1.8						
					IM10	Sunny	Moderate	11:39	8.3	Surface	1.0	1.1	125	29.1	29.1	7.7	7.7	12.1	12.1	82.4	82.4	5.9	5.9	10.4	4	83	88	822377	809774	<0.2	1.9	<0.2	1.9
											1.0	1.2	126	29.1	7.7	7.7	12.1	12.1	82.3	82.3	5.9	5.9	10.4	5	83	88	822377	809774	<0.2	1.9	<0.2	1.9	
											4.2	1.0	121	28.9	7.6	7.6	14.1	14.1	73.3	73.3	5.2	5.2	10.2	5	88	88	822377	809774	<0.2	1.9	<0.2	1.9	
Middle	4.2	1.1	123	28.9						7.6	7.6	14.1	14.1	73.2	73.2	5.2	5.2	10.2	6	88	88	822377	809774	<0.2	1.7	<0.2	1.9						
	7.3	0.7	107	28.3						7.6	7.6	18.6	18.6	62.6	62.7	4.4	4.4	16.3	6	91	88	822377	809774	<0.2	1.8	<0.2	1.9						
	7.3	0.8	111	28.3						7.6	7.6	18.6	18.6	62.7	62.7	4.4	4.4	16.3	6	92	88	822377	809774	<0.2	1.9	<0.2	1.9						
IM11	Sunny	Moderate	11:24	7.5						Surface	1.0	0.7	117	29.5	29.5	7.8	7.8	11.2	11.2	90.1	90.2	6.5	6.5	10.2	5	83	88	822080	811460	<0.2	1.9	<0.2	1.7
											1.0	0.7	123	29.5	7.8	7.8	11.2	11.2	90.3	90.3	6.5	6.5	10.2	6	83	88	822080	811460	<0.2	1.7	<0.2	1.7	
											3.8	0.5	99	27.7	7.6	7.6	22.8	22.8	46.0	46.0	3.2	3.2	11.6	6	88	88	822080	811460	<0.2	2.0	<0.2	1.8	
					Middle	3.8	0.6	108	27.7	7.6	7.6	22.8	22.8	46.0	46.0	3.2	3.2	11.5	5	88	88	822080	811460	<0.2	2.0	<0.2	1.8						
						6.5	0.2	88	27.1	7.6	7.6	26.5	26.5	40.4	40.5	2.8	2.8	14.2	6	92	88	822080	811460	<0.2	1.7	<0.2	1.7						
						6.5	0.2	89	27.1	7.6	7.6	26.5	26.5	40.5	40.5	2.8	2.8	14.3	6	92	88	822080	811460	<0.2	1.7	<0.2	1.7						
					IM12	Sunny	Moderate	11:13	9.6	Surface	1.0	0.5	90	29.6	29.6	7.8	7.8	10.2	10.2	89.8	89.7	6.5	6.5	10.0	6	83	88	821447	812022	<0.2	2.0	<0.2	1.9
											1.0	0.6	96	29.6	7.8	7.8	10.2	10.2	89.6	89.6	6.5	6.5	10.0	6	87	88	821447	812022	<0.2	1.9	<0.2	1.9	
											4.8	0.4	113	28.1	7.6	7.6	19.8	19.8	50.1	50.1	3.5	3.5	10.3	6	88	88	821447	812022	<0.2	1.8	<0.2	1.8	
Middle	4.8	0.4	118	28.1						7.6	7.6	19.8	19.8	50.1	50.1	3.5	3.5	10.3	6	87	88	821447	812022	<0.2	1.7	<0.2	1.9						
	8.6	0.2	76	27.2						7.6	7.6	26.0	26.0	41.1	41.2	2.8	2.8	14.4	7	92	88	821447	812022	<0.2	1.8	<0.2	1.8						
	8.6	0.2	77	27.2						7.6	7.6	26.0	26.0	41.2	41.2	2.8	2.8	14.4	6	91	88	821447	812022	<0.2	1.8	<0.2	1.8						
SR1A	Cloudy	Moderate	10:55	5.5						Surface	1.0	-	-	29.6	29.6	7.8	7.8	11.6	11.6	96.8	96.9	6.9	6.9	9.6	7	-	-	819977	812666	-	-	-	-
											1.0	-	-	29.6	29.6	7.8	7.8	11.6	11.6	97.0	97.0	6.9	6.9	9.6	6	-	-	819977	812666	-	-	-	-
											2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819977	812666	-	-	-	-		
						4.5	-	-	28.4	28.4	7.6	7.6	18.1	18.1	62.0	62.1	4.4	4.4	11.0	7	-	-	-	-	819977	812666	-	-	-	-			
						4.5	-	-	28.4	28.4	7.6	7.6	18.1	18.1	62.1	62.1	4.4	4.4	11.0	7	-	-	-	-	819977	812666	-	-	-	-			
					SR2	Cloudy	Moderate	10:42	4.8	Surface	1.0	0.4	101	29.4	29.4	7.7	7.7	10.9	11.0	85.4	85.4	6.1	6.1	10.2	5	83	85	821454	814164	<0.2	1.8	<0.2	1.8
											1.0	0.4	107	29.4	7.7	7.7	11.1	11.1	85.4	85.4	6.1	6.1	10.2	6	83	85	821454	814164	<0.2	1.8	<0.2	1.8	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821454	814164	<0.2	1.8	<0.2	1.8		
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821454	814164	<0.2	1.8	<0.2	1.8		
	3.8	0.2	102	28.6						7.7	7.7	16.1	16.1	67.0	67.0	4.8	4.8	10.3	6	88	88	821454	814164	<0.2	2.0	<0.2	2.1						
Bottom	3.8	0.2	102	28.6						7.7	7.7	16.1	16.1	66.9	66.9	4.7	4.7	10.3	7	87	88	821454	814164	<0.2	2.0	<0.2	2.1						
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821454	814164	<0.2	2.0	<0.2	2.1		
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821454	814164	<0.2	2.0	<0.2	2.1		
SR3	Sunny	Moderate	12:04	8.4	Surface	1.0	0.4	222	30.0	30.0	7.8	7.8	9.4	9.4	96.9	97.0	7.0	7.0	10.6	5	-	-	822156	807584	-	-	-	-					
						1.0	0.5	239	30.0	7.8	7.8	9.4	9.4	97.0	97.0	7.0	7.0	10.6	4	-	-	822156	807584	-	-	-	-						
						4.2	0.4	230	28.4	7.6	7.6	18.5	18.5	63.1	63.2	4.4	4.4	9.7	5	-	-	822156	807584	-	-	-	-						
					Middle	4.2	0.4	243	28.4	7.6	7.6	18.5	18.5	63.2	63.2	4.4	4.4	9.7	4	-	-	822156	807584	-	-	-	-						
						7.4	0.3	255	27.9	7.6	7.6	21.6	21.6	47.7	47.7	3.3	3.3	10.0	5	-	-	822156	807584	-	-	-	-						
						7.4	0.3	278	27.9	7.6	7.6	21.6	21.6	47.7	47.7	3.3	3.3	10.1	4	-	-	822156	807584	-	-	-	-						
					SR4A	Cloudy	Calm	10:55	9.5	Surface	1.0	0.2	234	29.5	29.5	8.2	8.2	7.2	7.2	112.9	112.6	8.3	8.3	4.2	6	-	-	817186	807801	-	-	-	-
											1.0	0.2	245	29.5	8.2	8.2	7.2	7.2	112.3	112.3	8.2	8.2	4.2	4	-	-	817186	807801	-	-	-	-	
											4.8	0.1	255	26.7	7.6	7.6	28.9	28.7	60.2	63.9	4.1	4.1	4.9	6	-	-	817186	807801	-	-	-	-	
Middle	4.8	0.1	277	26.6						7.6	7.6	28.5	28.7	67.6	68.9	4.6	4.6	5.0	4	-	-	817186	807801	-	-	-	-						
	8.5	0.1	232	26.4						7.5	7.5	30.3	30.2	47.2	49.7	3.2	3.2	5.0	6	-	-	817186	807801	-	-	-	-						
	8.5	0.1	233	26.4						7.5	7.5	30.2	30.2	52.2	49.7	3.6	3.4	5.0	7	-	-	817186	807801	-	-	-	-						
SR5A	Cloudy	Calm	10:38	5.6						Surface	1.0	0.0	178	29.5	29.5	8.1	8.1	10.8	10.8	118.3	118.1	8.5	8.5	3.8	4	-	-	816585	810692	-	-	-	-
											1.0	0.0	185	29.5	8.1	8.1	10.8	10.8	117.9	117.9	8.5	8.5	3.										



Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

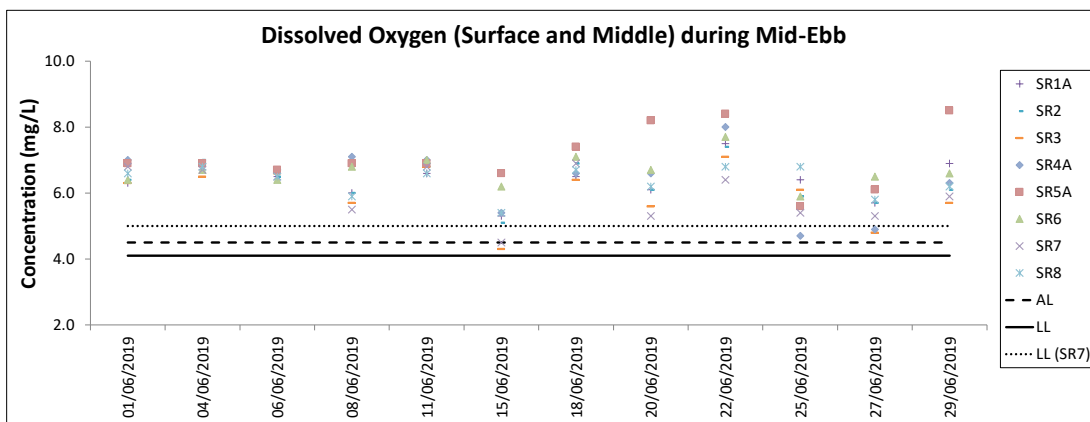
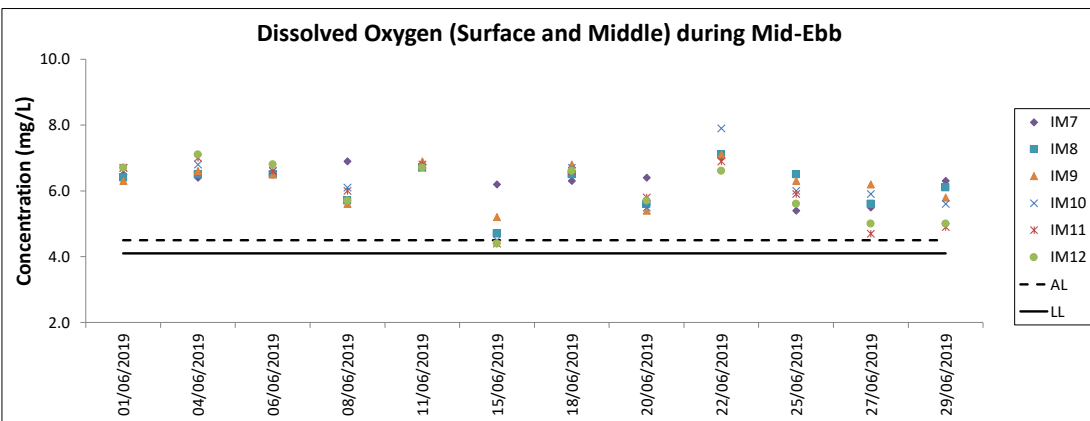
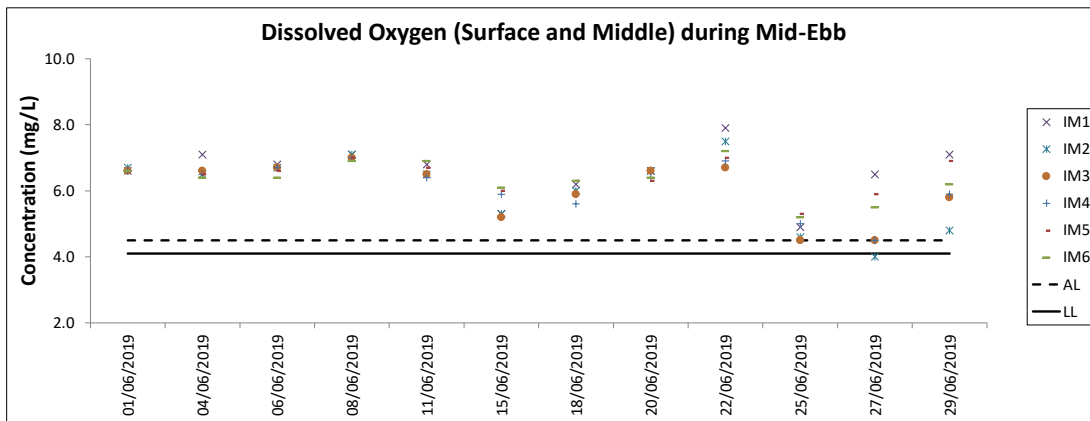
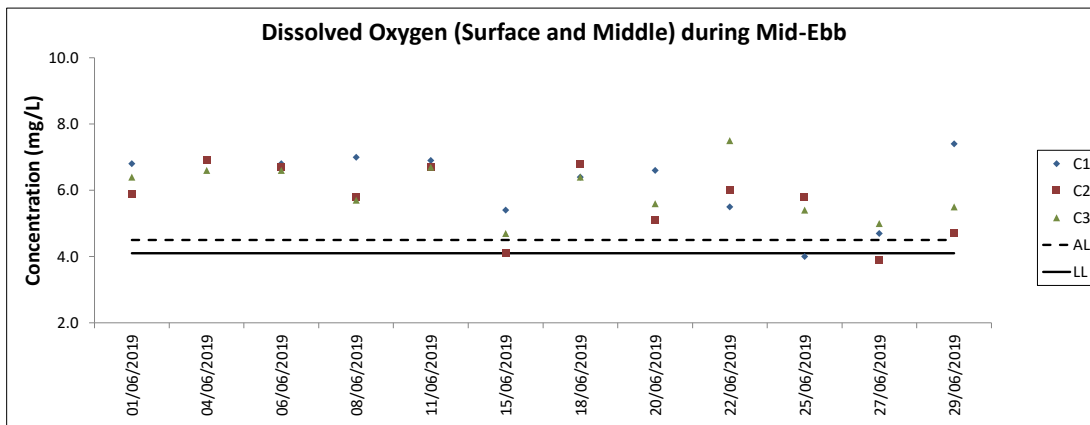
Water Quality Monitoring Results on 29 June 19 during Mid-Flood Tide

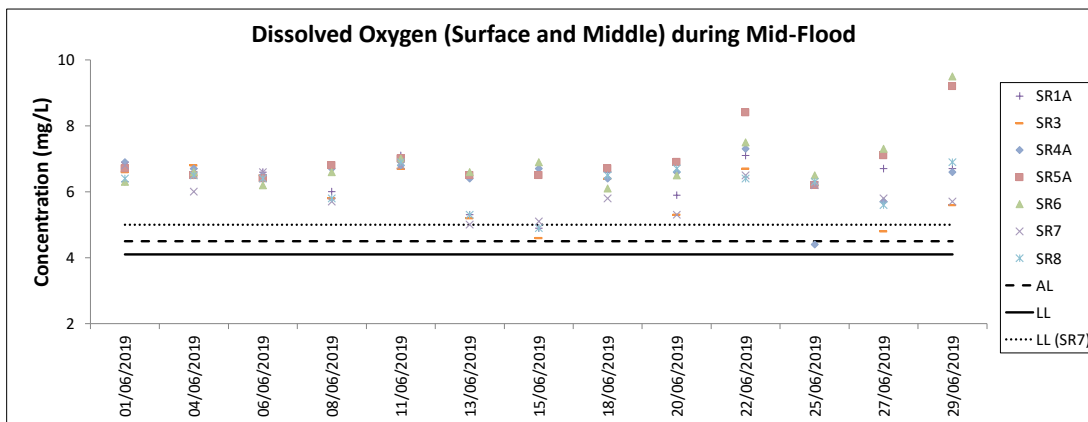
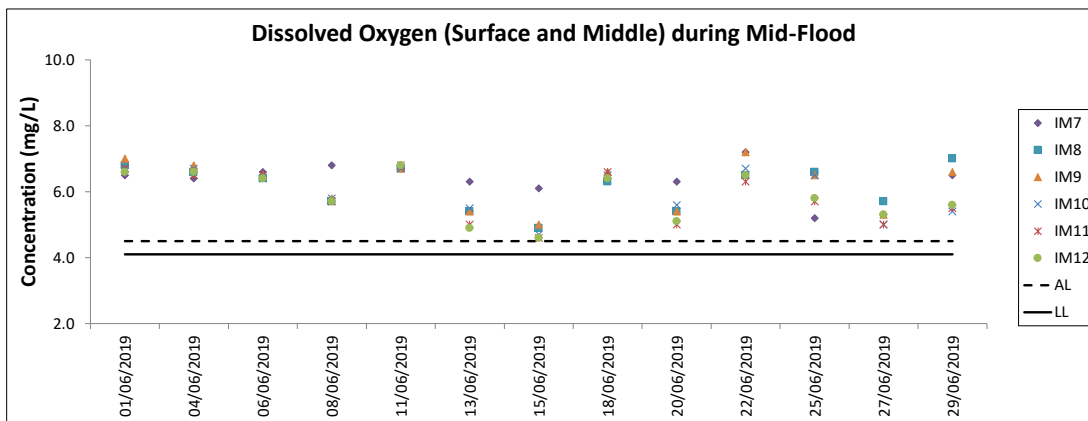
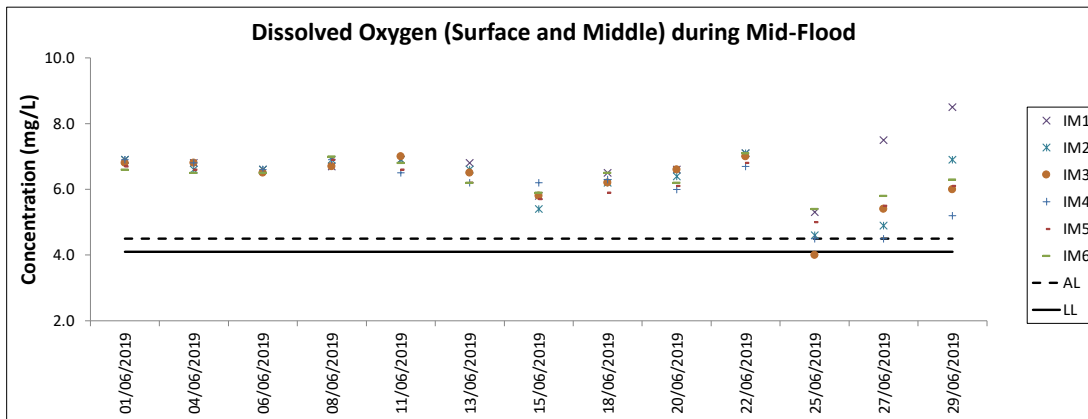
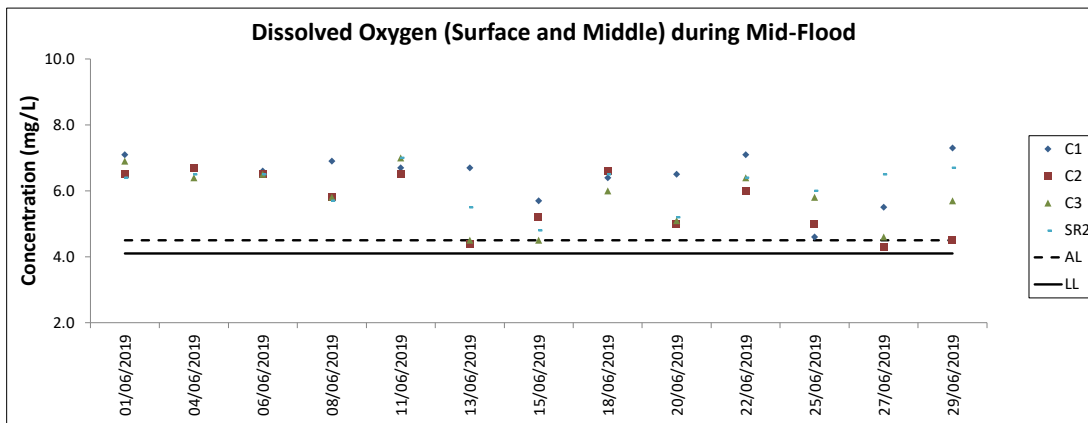
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA						
C1	Fine	Moderate	16:25	8.8	Surface	1.0	0.4	32	29.5	29.5	8.1	8.1	10.1	10.1	110.2	110.1	8.0	5.6	4	84	88	815609	804267	<0.2	1.8	<0.2	1.7										
						1.0	0.4	30	29.4	8.1	8.1	10.2	10.9	7.9	5.5	5	85	<0.2	1.7																		
					Middle	4.4	0.1	35	28.8	28.8	7.9	7.9	12.8	12.8	93.2	6.7	6.4	5.8	5	88				<0.2	1.7												
						4.4	0.1	34	28.7	28.7	7.9	7.9	12.9	12.9	93.1	6.7	6.5	5.5	5	88				<0.2	1.6												
					Bottom	7.8	0.1	32	28.3	28.3	7.8	7.8	14.4	14.6	76.1	5.5	5.6	5.5	5	90				<0.2	1.7												
						7.8	0.1	30	28.3	28.3	7.8	7.8	14.8	14.8	75.5	5.4	5.4	4	90	<0.2				1.6													
C2	Sunny	Moderate	15:27	8.5	Surface	1.0	1.2	14	29.0	29.0	7.4	7.4	6.1	6.1	77.0	5.7	12.9	6	85	89	825682	806927	<0.2	2.3	<0.2	2.4											
						1.0	1.3	16	29.0	29.0	7.4	7.4	6.1	77.1	5.7	13.0	7	85	<0.2				2.3														
					Middle	4.3	0.7	16	27.9	27.9	7.5	7.5	20.6	20.6	46.9	47.0	3.3	11.5	11.9				7	88			<0.2	2.4									
						4.3	0.7	17	27.9	27.9	7.5	7.5	20.7	20.7	47.0	3.3	11.5	6	89				<0.2	2.3													
					Bottom	7.5	0.3	16	27.4	27.4	7.6	7.6	25.2	25.2	43.7	43.8	3.0	11.2	6				92	<0.2			2.4										
						7.5	0.3	17	27.4	27.4	7.6	7.6	25.2	25.2	43.8	3.0	11.2	7	93				<0.2	2.4													
C3	Sunny	Moderate	17:09	10.8	Surface	1.0	0.7	239	29.5	29.5	7.9	7.9	12.8	12.8	98.7	7.0	9.7	2	85	89	822109	817804	<0.2	2.2	<0.2	2.2											
						1.0	0.7	246	29.5	29.5	7.9	7.9	12.8	98.6	7.0	9.7	2	85	<0.2				2.2														
					Middle	5.4	0.5	235	28.1	28.1	7.6	7.6	20.2	20.2	63.0	63.0	4.4	9.1	3				89	<0.2			2.2										
						5.4	0.5	245	28.1	28.1	7.6	7.6	20.2	20.2	63.0	4.4	9.1	3	88				<0.2	2.2													
					Bottom	9.8	0.3	268	27.5	27.5	7.7	7.7	23.7	23.6	56.3	56.3	3.9	17.2	3				93	<0.2			2.2										
						9.8	0.3	280	27.5	27.5	7.7	7.7	23.6	23.6	56.3	3.9	17.0	3	92				<0.2	2.2													
IM1	Fine	Moderate	16:05	5.8	Surface	1.0	0.4	10	29.6	29.6	8.2	8.2	8.7	8.7	116.5	116.0	8.5	5.0	4	81	83	817928	807129	<0.2	1.8	<0.2	1.8										
						1.0	0.4	10	29.6	29.6	8.2	8.2	8.7	115.4	8.4	4.9	4	82	<0.2	1.8																	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-	-	-	-
					Bottom	4.8	0.1	26	27.6	27.7	7.6	7.6	26.2	26.4	53.2	53.1	3.6	3.6	3.6	5.2				5	84			<0.2	1.9								
						4.8	0.1	30	27.7	27.7	7.6	7.6	26.5	26.4	53.0	3.6	4.8	6	85	<0.2				1.8													
IM2	Fine	Moderate	15:58	6.9	Surface	1.0	0.2	33	30.0	30.0	8.2	8.2	9.3	9.3	126.5	126.2	9.1	4.8	6	82	85	818155	806175	<0.2	1.9	<0.2	1.8										
						1.0	0.3	34	30.0	30.0	8.2	8.2	9.3	125.9	9.1	4.8	6	82	<0.2	1.8																	
					Middle	3.5	0.3	37	27.9	28.0	7.7	7.7	18.8	18.7	66.8	67.1	4.7	4.9	6.9	4.5				7	84			<0.2	1.8								
						3.5	0.3	38	28.0	28.0	7.7	7.7	18.7	18.7	67.4	4.8	4.5	6	85	<0.2				1.8													
					Bottom	5.9	0.2	27	27.7	27.7	7.7	7.7	20.2	20.3	74.2	76.1	5.2	5.5	5.4	5.5				7	88			<0.2	1.7								
						5.9	0.2	28	27.7	27.7	7.7	7.7	20.4	20.3	77.9	5.5	5.1	7	88	<0.2				1.8													
IM3	Fine	Moderate	15:52	6.7	Surface	1.0	0.7	22	29.5	29.5	8.1	8.1	10.6	10.6	113.0	112.9	8.1	5.8	6	82	85	818763	805573	<0.2	1.7	<0.2	1.7										
						1.0	0.7	23	29.5	29.5	8.1	8.1	10.6	112.7	8.1	5.8	6	83	<0.2	1.7																	
					Middle	3.4	0.5	22	27.0	27.0	7.6	7.6	25.1	25.0	54.3	55.3	3.8	6.0	5.4	5.9				7	84			<0.2	1.7								
						3.4	0.6	24	27.0	27.0	7.6	7.6	24.9	24.9	56.2	3.9	6.1	8	85	<0.2				1.6													
					Bottom	5.7	0.2	26	26.2	26.3	7.6	7.6	30.5	30.4	66.0	66.0	4.5	4.5	4.5	4.3				8	88			<0.2	1.6								
						5.7	0.3	27	26.3	26.3	7.6	7.6	30.2	30.4	65.9	4.5	4.3	7	89	<0.2				1.6													
IM4	Cloudy	Moderate	15:45	7.7	Surface	1.0	0.7	24	28.8	28.9	7.8	7.8	14.5	14.5	85.7	86.3	6.1	5.5	3	84	88	819733	804590	<0.2	1.9	<0.2	2.0										
						1.0	0.7	25	28.9	28.9	7.8	7.8	14.5	86.8	6.2	5.4	4	85	<0.2	2.0																	
					Middle	3.9	0.2	28	27.3	27.3	7.6	7.6	24.6	24.7	60.3	60.2	4.2	5.2	6.3	6.8				4	88			<0.2	2.0								
						3.9	0.2	28	27.3	27.3	7.6	7.6	24.9	24.9	60.1	4.1	6.8	6	89	<0.2				1.9													
					Bottom	6.7	0.2	28	26.9	26.9	7.6	7.6	25.8	25.8	53.3	53.3	3.7	3.7	3.7	6.7				8	90			<0.2	1.9								
						6.7	0.2	30	26.9	26.9	7.6	7.6	25.8	25.8	53.2	3.7	6.6	8	90	<0.2				1.8													
IM5	Cloudy	Rough	15:38	6.9	Surface	1.0	1.0	26	29.2	29.2	7.9	7.9	9.3	9.3	97.6	97.4	7.1	5.0	3	82	85	820739	804878	<0.2	1.8	<0.2	1.8										
						1.0	1.0	24	29.1	29.1	7.9	7.9	9.3	97.2	7.1	4.9	4	83	<0.2	1.9																	
					Middle	3.5	0.9	23	28.1	28.1	7.7	7.7	13.3	13.8	73.0	70.3	5.3	6.1	9.1	7.3				3	85			<0.2	1.8								
						3.5	0.9	25	28.0	28.0	7.6	7.6	14.2	14.2	67.6	4.9	8.1	3	85	<0.2				1.8													
					Bottom	5.9	0.5	22	28.0	28.1	7.6	7.6	19.3	19.3	64.2	64.9	4.5	4.6	4.6	14.6				6	88			<0.2	1.7								
						5.9	0.5	23	28.2	28.2	7.6	7.6	19.3	19.3	65.6	4.6	14.9	7	89	<0.2				1.8													
IM6	Cloudy	Rough	15:31	6.5	Surface	1.0	0.9	26	29.4	29.4	7.9	7.9	9.8	9.8	102.3	102.1	7.4	4.6	3	84	87	821068	805818	<0.2	1.9	<0.2	1.8										
						1.0	0.9	28	29.4	29.4	7.9	7.9	9.8	101.9	7.4	4.6	4	84	<0.2	1.9																	
					Middle	3.3	0.8	27	28.2	28.2	7.6	7.6	14.6	14.6	72.6	72.6	5.2	6.3	6.9	4.6				5	87			<0.2	1.9								
						3.3	0.8	28	28.2	28.2	7.6	7.6	14.6	14.6	72.6	5.2	4.4	6	88	<0.2				1.7													
					Bottom	5.5	0.4	25	28.1	28.2	7.6	7.6	18.4	18.3	67.4	69.0	4.8	4.9	4.9	11.5				7	90			<0.2	1.7								
						5.5	0.5	26	28.2	28.2	7.6	7.6	18.3	18.3	70.5	5.0	11.5	7	90	<0.2				1.8													
IM7	Cloudy	Moderate	15:25	7.6	Surface	1.0	0.8	27	29.4	29.4	7.9	7.9	9.7	9.7	101.1	101.0	7.3	4.8	4	83	85	821330	806857	<0.2	2.0	<0.2	2.0										
						1.0	0.9	29	29.3	29.3	7.9	7.9	9.7	100.9	7.3	4.8	5	83	<0.2	2.0																	
					Middle	3.8	0.8	27	28.4	28.4	7.7	7.7	13.0	13.0	78.6	78.5	5.7	6.5	4.6	4.4				4	85			<0.2	2.0								
						3.8	0.8	28	28.4	28.4	7.7	7.7	13.0	13.0	78.3	5.7	4.3	4	85	<0.2				1.9													
					Bottom	6.6	0.5	25	27.7	27.7	7.6	7.6	19.0	18.9	67.1	68.7	4.8	4.9	4.9	4.5				5	86			<0.2	2.0								
						6.6	0.5	26	27.7	27.7	7.6	7.6	18.8	18.8	70.2	5.0	4.6	4	86	<0.2				2.0													
IM8	Sunny	Moderate	15:46	7.9	Surface	1.0	0.2	344	30.2	30.2	7.8	7.8	7.2	7.2	102.2	102.1	7.4	11.4	5	86	89	821833	808146	<0.2	2.4	<0.2	2.1										
						1.0	0.2	347	30.2	30.2																											

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

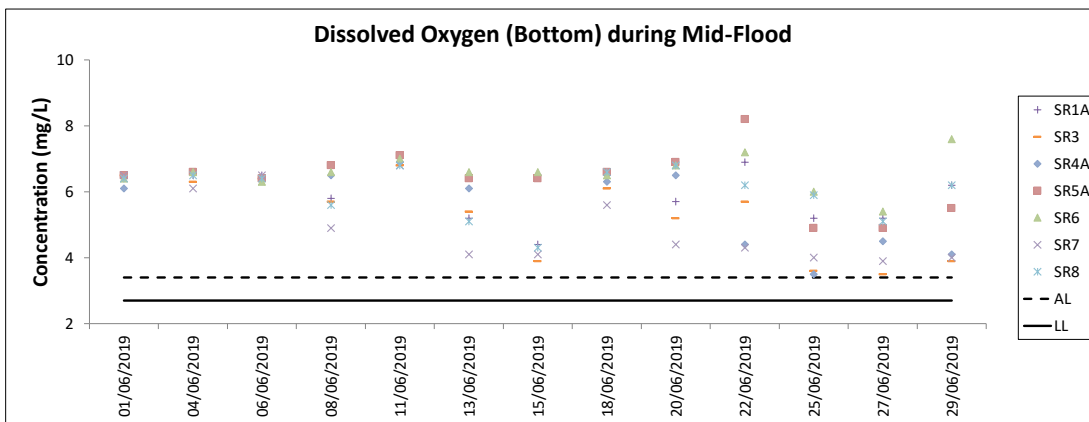
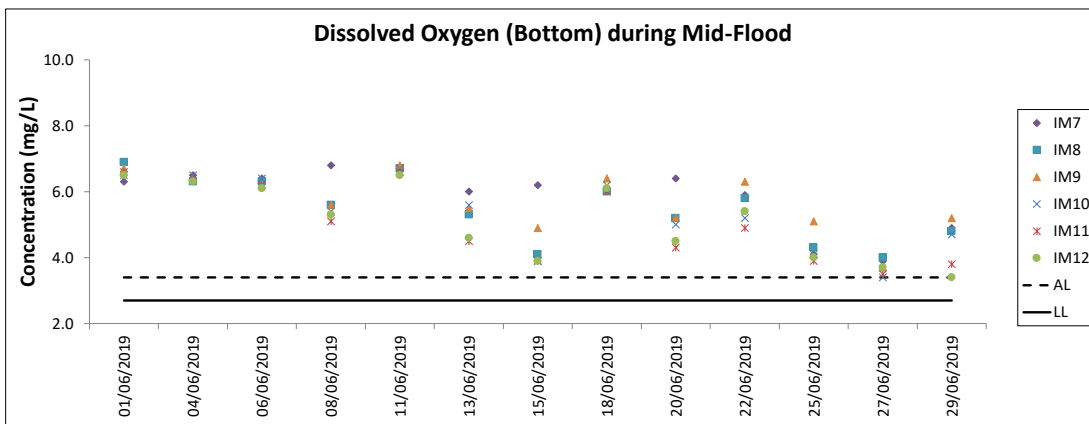
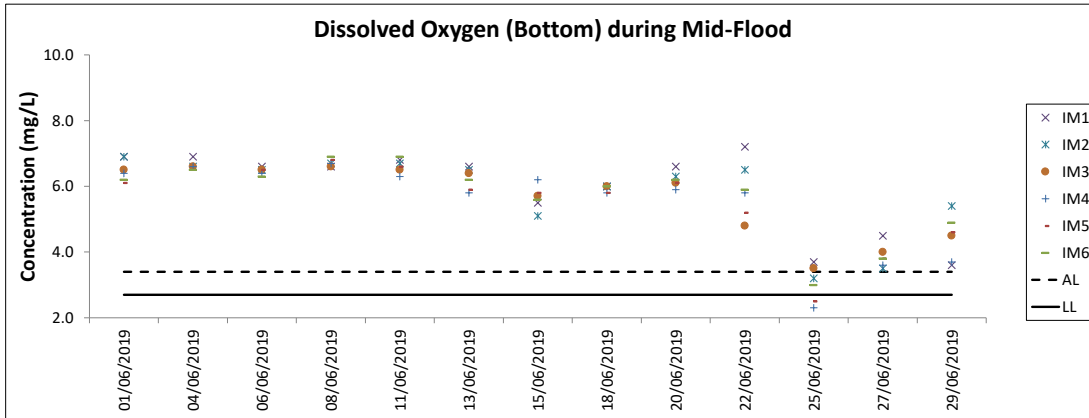
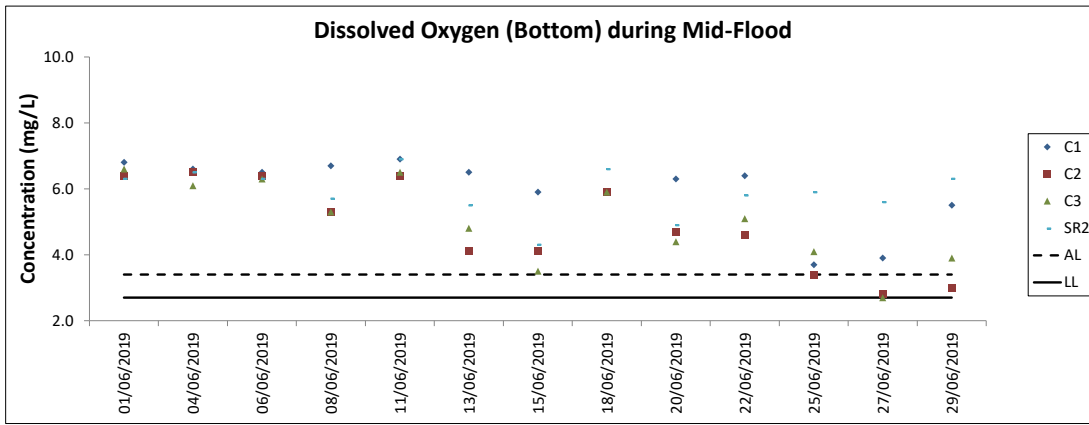
Water Quality Monitoring Results on 29 June 19 during Mid-Flood Tide

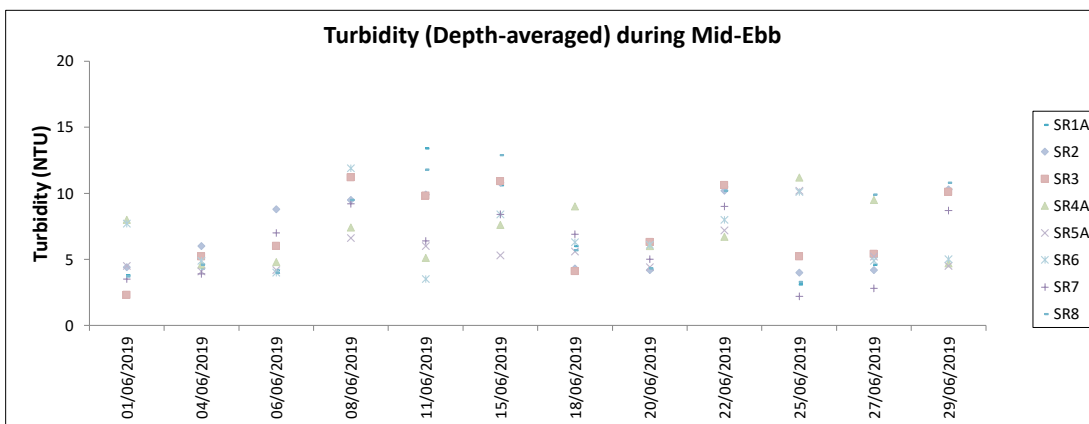
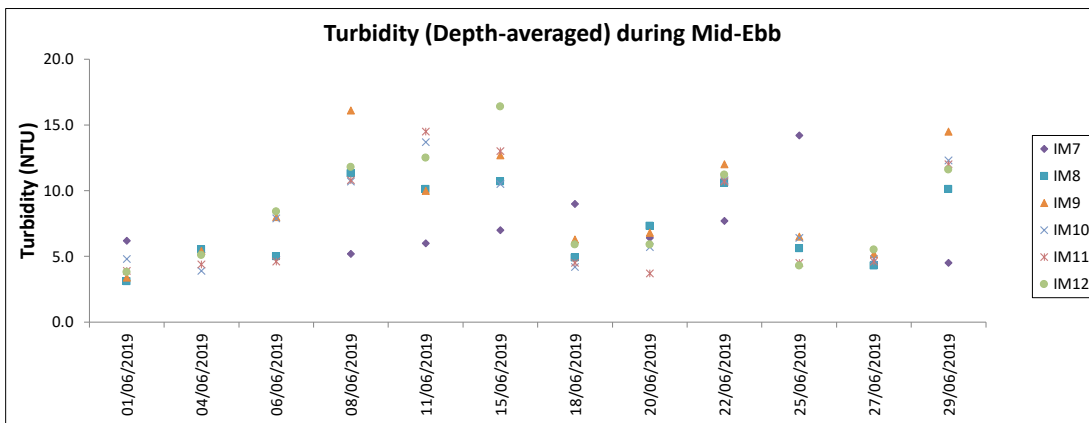
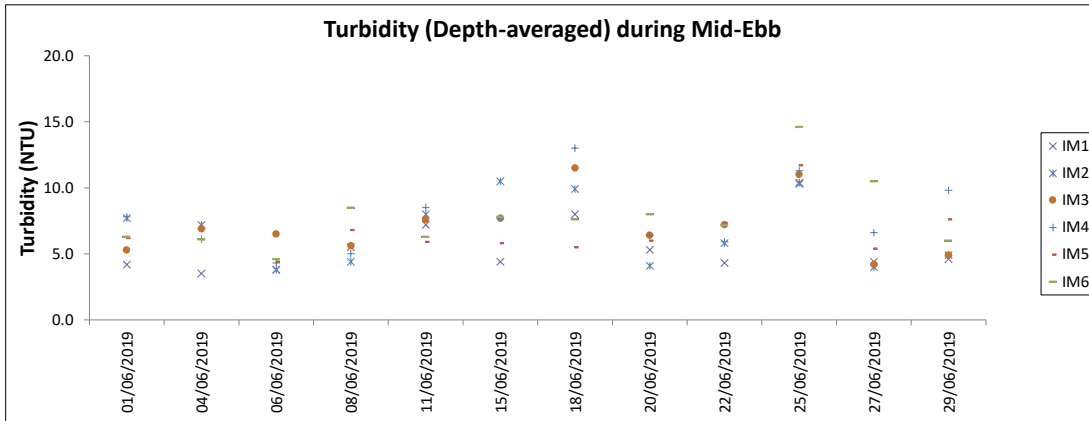
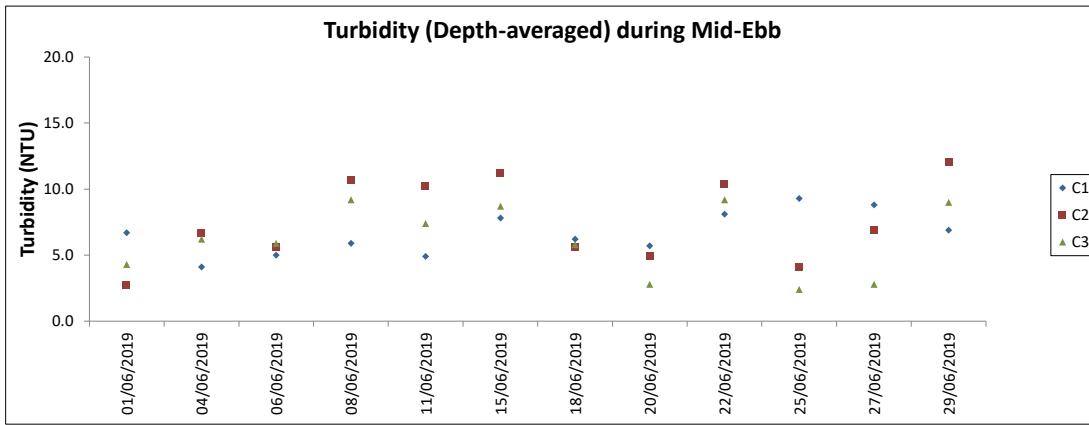
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA						
IM9	Sunny	Moderate	15:52	7.3	Surface	1.0	0.5	318	30.2	30.2	7.8	7.8	6.1	6.1	99.4	99.5	7.3	11.4	3	85	89	88	85	89	88	822087	808817	<0.2	2.2	2.1							
						1.0	0.5	317	30.2	30.2	7.8	7.8	6.1	6.1	99.5	99.5	7.3	11.4	4	85	89	88	85	89	88	822087	808817	<0.2	2.1								
						3.7	0.2	297	29.3	29.3	7.7	7.7	10.8	10.8	82.3	82.3	5.9	10.5	4	89	89	89	89	89	89	89	89	822087	808817		<0.2	2.2					
					Middle	3.7	0.3	288	29.3	29.3	7.7	7.7	10.8	10.8	82.2	82.2	5.9	10.5	4	89	89	89	89	89	89	89	89	822087	808817		<0.2	2.1					
						6.3	0.2	287	28.9	28.9	7.6	7.6	14.0	14.1	72.7	72.7	5.2	13.5	5	93	93	93	93	93	93	93	93	822087	808817		<0.2	2.2					
						6.3	0.3	290	28.9	28.9	7.6	7.6	14.1	14.1	72.7	72.7	5.2	13.5	4	93	93	93	93	93	93	93	93	822087	808817		<0.2	2.0					
					IM10	Sunny	Moderate	15:59	7.5	Surface	1.0	0.7	314	29.3	29.3	7.6	7.6	8.0	8.2	77.7	77.6	5.7	10.9	4	85	89	89	89	89		89	822376	809801	<0.2	2.4		
											1.0	0.7	318	29.3	29.3	7.6	7.6	8.3	8.2	77.5	77.5	5.7	10.9	4	85	89	89	89	89		89	89	89	822376	809801	<0.2	2.2
											3.8	0.6	298	28.9	28.9	7.6	7.6	12.4	12.4	70.5	70.5	5.1	10.5	5	89	89	89	89	89		89	89	89	822376	809801	<0.2	2.1
Middle	3.8	0.6	277	28.9						28.9	7.6	7.6	12.4	12.4	70.4	70.4	5.1	10.5	5	89	89	89	89	89	89	89	89	822376	809801	<0.2	2.2						
	6.5	0.4	272	28.6						28.6	7.6	7.6	16.0	16.0	65.9	65.9	4.7	11.0	4	92	92	92	92	92	92	92	92	822376	809801	<0.2	2.1						
	6.5	0.4	278	28.6						28.6	7.6	7.6	16.0	16.0	65.9	65.9	4.7	11.0	5	93	93	93	93	93	93	93	93	822376	809801	<0.2	2.0						
IM11	Sunny	Moderate	16:09	8.3						Surface	1.0	0.7	295	29.5	29.5	7.6	7.6	7.8	7.8	85.1	85.1	6.2	11.4	4	84	89	89	89	89	89	822037	811454	<0.2	2.3			
											1.0	0.8	292	29.5	29.5	7.6	7.6	7.8	7.8	85.1	85.1	6.2	11.4	3	85	89	89	89	89	89	89	89	822037	811454	<0.2	2.4	
											4.2	0.5	281	28.6	28.6	7.6	7.6	15.6	15.6	65.6	65.6	4.7	10.1	4	89	89	89	89	89	89	89	89	822037	811454	<0.2	2.3	
					Middle	4.2	0.5	284	28.6	28.6	7.6	7.6	15.6	15.6	65.5	65.5	4.7	10.1	4	89	89	89	89	89	89	89	89	822037	811454	<0.2	2.3						
						7.3	0.1	266	27.9	27.9	7.6	7.6	21.2	21.2	54.1	54.2	3.8	13.5	4	93	93	93	93	93	93	93	93	822037	811454	<0.2	2.3						
						7.3	0.1	275	27.9	27.9	7.6	7.6	21.2	21.2	54.2	54.2	3.8	13.5	4	93	93	93	93	93	93	93	93	822037	811454	<0.2	2.2						
					IM12	Sunny	Moderate	16:15	7.8	Surface	1.0	0.7	286	29.7	29.7	7.7	7.7	7.2	7.2	88.3	88.4	6.5	13.1	4	85	89	89	89	89	89	821453	812040	<0.2	2.4			
											1.0	0.7	274	29.7	29.7	7.7	7.7	7.2	7.2	88.4	88.4	6.5	13.1	4	85	89	89	89	89	89	89	89	821453	812040	<0.2	2.4	
											3.9	0.4	269	28.7	28.7	7.6	7.6	15.6	15.6	66.3	66.3	4.7	10.6	4	89	89	89	89	89	89	89	89	821453	812040	<0.2	2.5	
Middle	3.9	0.4	263	28.7						28.7	7.6	7.6	15.6	15.6	66.2	66.2	4.7	10.6	4	89	89	89	89	89	89	89	89	821453	812040	<0.2	2.2						
	6.8	0.0	250	27.7						27.7	7.6	7.6	21.3	21.3	49.0	49.0	3.4	15.8	4	92	92	92	92	92	92	92	92	821453	812040	<0.2	2.5						
	6.8	0.0	244	27.6						27.6	7.6	7.6	21.4	21.4	49.0	49.0	3.4	15.8	4	93	93	93	93	93	93	93	93	821453	812040	<0.2	2.5						
SR1A	Sunny	Moderate	16:34	5.6						Surface	1.0	-	-	29.7	29.7	7.7	7.7	8.8	8.8	92.4	92.3	6.7	11.3	3	-	-	-	-	-	-	819980	812653	-	-			
											1.0	-	-	29.7	29.7	7.7	7.7	8.8	8.8	92.2	92.2	6.7	11.3	4	-	-	-	-	-	-	-	-	819980	812653	-	-	
											2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819980	812653	-	-	
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819980	812653	-	-						
						4.6	-	-	29.2	29.2	7.7	7.7	12.6	12.6	86.4	86.4	6.2	12.2	3	-	-	-	-	-	-	-	-	819980	812653	-	-						
						4.6	-	-	29.2	29.2	7.7	7.7	12.6	12.6	86.4	86.4	6.2	12.1	4	-	-	-	-	-	-	-	-	819980	812653	-	-						
					SR2	Sunny	Moderate	16:46	5.0	Surface	1.0	0.2	254	29.8	29.8	7.7	7.7	9.2	9.3	92.9	92.9	6.7	11.5	3	85	85	85	85	85	85	821441	814147	<0.2	2.1			
											1.0	0.2	256	29.8	29.8	7.7	7.7	9.2	9.3	92.8	92.8	6.7	11.5	3	85	85	85	85	85	85	85	85	821441	814147	<0.2	2.2	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821441	814147	<0.2	2.1	
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821441	814147	<0.2	2.1						
	4.0	0.1	249	29.3						29.3	7.7	7.7	12.5	12.5	88.0	88.1	6.3	11.4	3	88	88	88	88	88	88	88	88	821441	814147	<0.2	2.1						
	4.0	0.1	251	29.3						29.3	7.7	7.7	12.5	12.5	88.1	88.1	6.3	11.3	4	88	88	88	88	88	88	88	88	821441	814147	<0.2	2.0						
SR3	Sunny	Moderate	15:41	8.8						Surface	1.0	0.6	13	29.9	29.9	7.8	7.8	8.3	8.3	93.4	93.3	6.8	10.8	5	-	-	-	-	-	-	822163	807575	-	-			
											1.0	0.7	13	29.9	29.9	7.8	7.8	8.3	8.3	93.2	93.2	6.7	10.8	4	-	-	-	-	-	-	-	-	822163	807575	-	-	
											4.4	0.3	18	28.6	28.6	7.6	7.6	16.0	16.0	62.3	62.3	4.4	10.1	5	-	-	-	-	-	-	-	-	822163	807575	-	-	
					Middle	4.4	0.3	20	28.6	28.6	7.6	7.6	16.0	16.0	62.2	62.2	4.4	10.0	5	-	-	-	-	-	-	-	-	822163	807575	-	-						
						7.8	0.3	25	28.1	28.1	7.6	7.6	19.3	19.3	56.3	56.3	3.9	14.2	6	-	-	-	-	-	-	-	-	822163	807575	-	-						
						7.8	0.3	27	28.1	28.1	7.6	7.6	19.3	19.3	56.3	56.3	3.9	14.3	7	-	-	-	-	-	-	-	-	822163	807575	-	-						
					SR4A	Fine	Calm	16:55	9.0	Surface	1.0	0.6	275	30.1	30.1	8.5	8.5	9.0	9.0	146.3	145.3	10.5	4.8	6	-	-	-	-	-	-	817197	807803	-	-			
											1.0	0.6	300	30.1	30.1	8.5	8.5	9.0	9.0	144.2	144.2	10.4	4.7	6	-	-	-	-	-	-	-	-	817197	807803	-	-	
											4.5	0.6	267	27.0	27.0	7.6	7.6	25.7	25.5	38.9	40.1	2.7	9.9	8	-	-	-	-	-	-	-	-	817197	807803	-	-	
Middle	4.5	0.6	291	27.0						27.0	7.6	7.6	41.2	41.2	25.3	25.3	2.9	10.0	10	-	-	-	-	-	-	-	-	817197	807803	-	-						
	8.0	0.4	277	26.6						26.6	7.6	7.6	28.4	28.4	55.4	59.2	3.8	11.9	13	-	-	-	-	-	-	-	-	817197	807803	-	-						
	8.0	0.5	283	26.6						26.6	7.6	7.6	28.4	28.4	63.0	63.0	4.3	11.4	13	-	-	-	-	-	-	-	-	817197	807803	-	-						
SR5A	Fine	Calm	17:13	5.5						Surface	1.0	0.1	218	29.7	29.7	8.3	8.3	12.7	12.7	131.9	129.4	9.4	4.3	5	-	-	-	-	-	-	816572	810691	-	-			
											1.0	0.1	227	29.7	29.7	8.3	8.3	12.8	12.7	126.8	126.8	9.0	4.7	6	-	-	-	-	-	-	-	-	816572	810691	-	-	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816572	810691	-	-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816572	810691	-	-						
						4.5	0.2	281	28.3	28.4	7.8	7.8	19.4	19.4	78.2	78.4	5.5	8.4	8	-	-	-	-	-	-	-	-	816572	810691	-	-						
						4.5	0.3	296	28.4	28.4	7.8	7.8	19.5	19.4	78.6	78.6	5.5	8.4	8	-	-	-	-	-	-	-	-	816572	810691	-	-						
					SR6	Fine	Calm	17:43																													



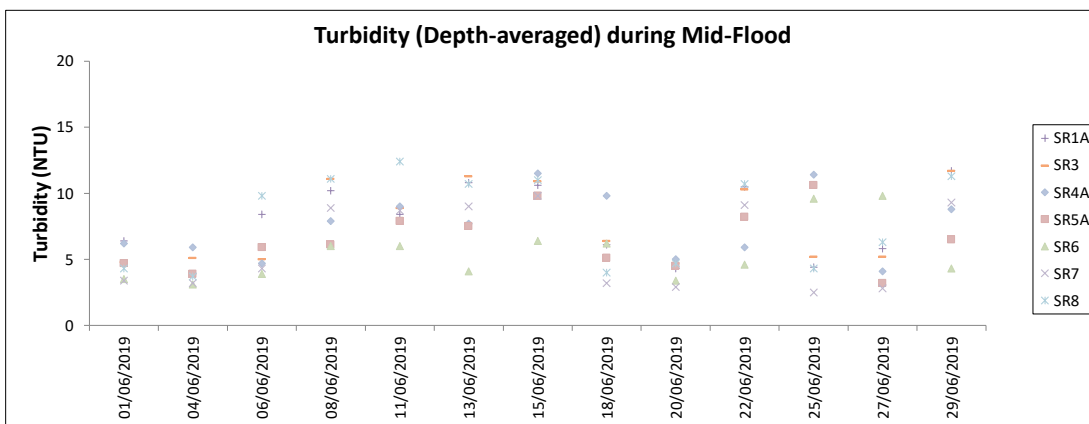
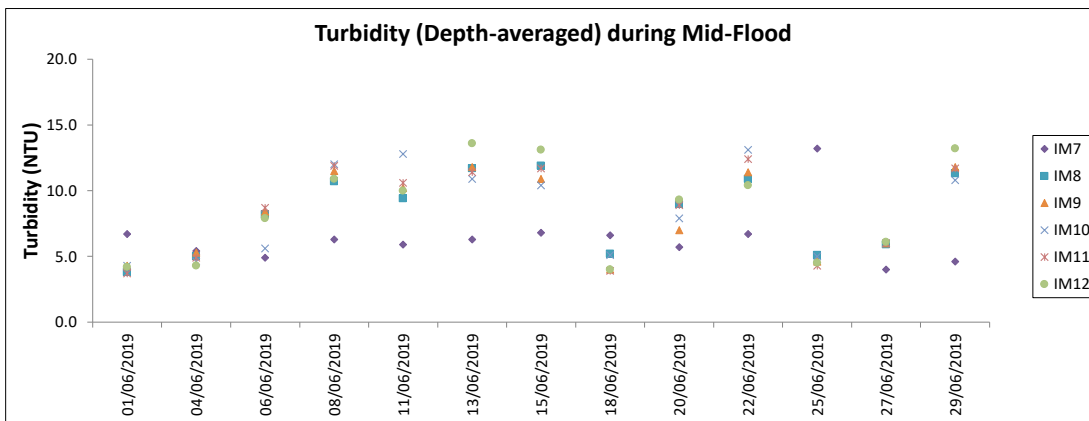
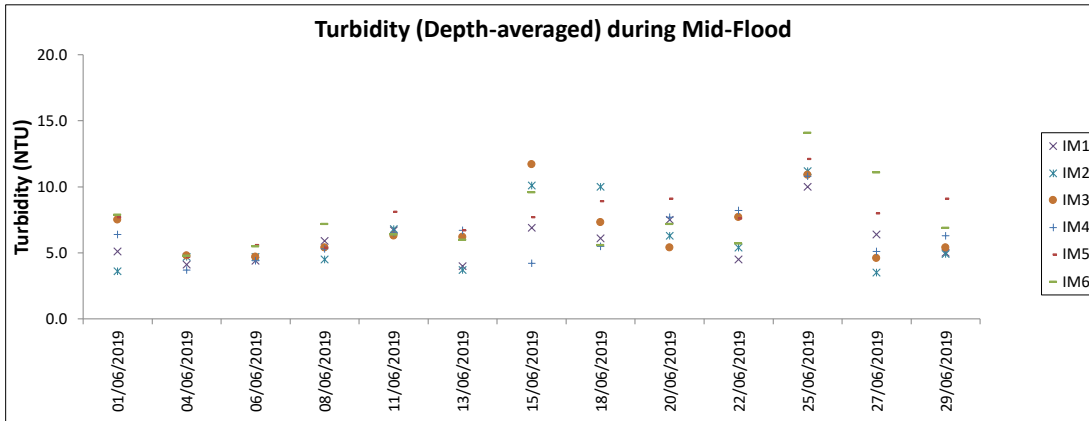
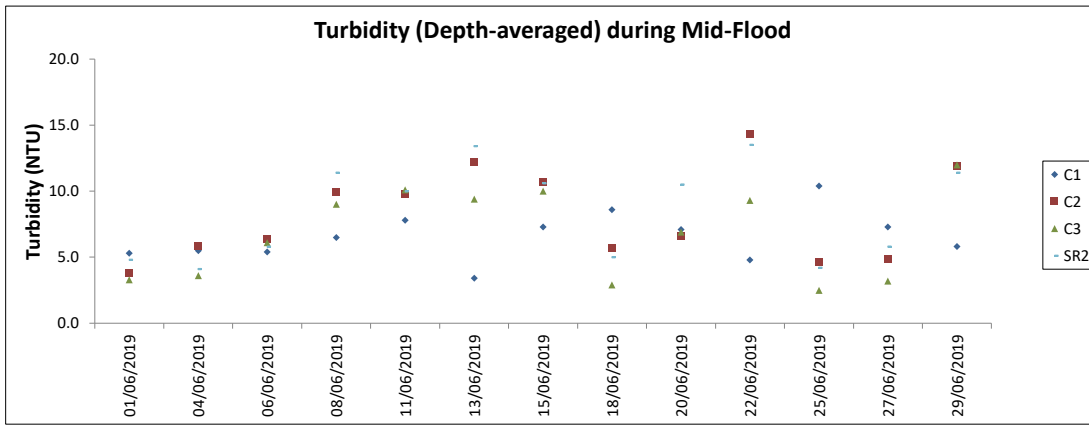






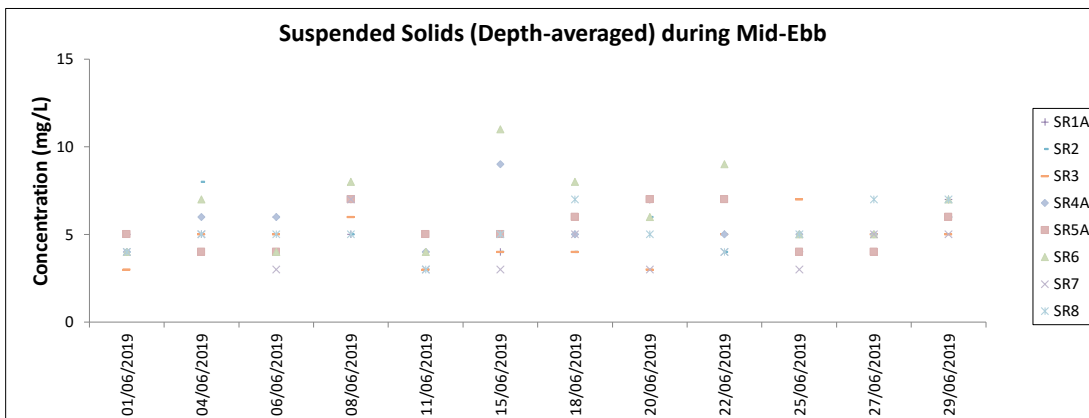
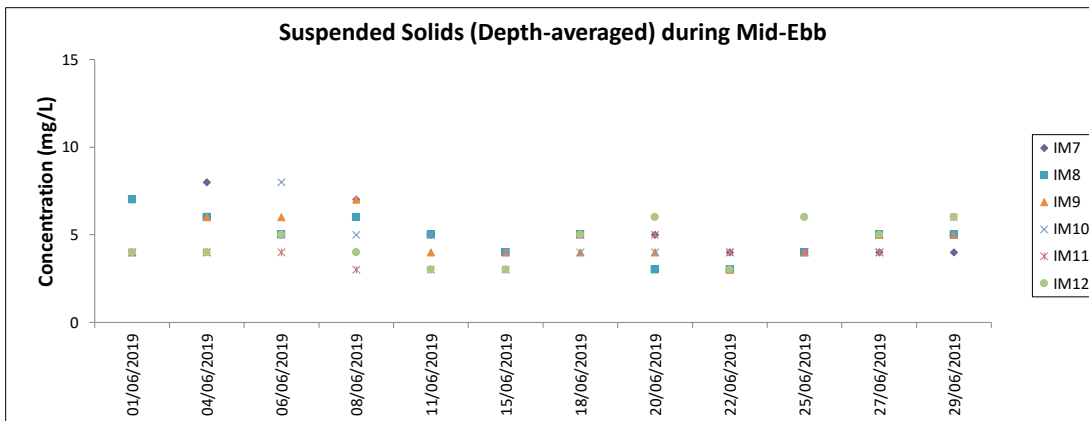
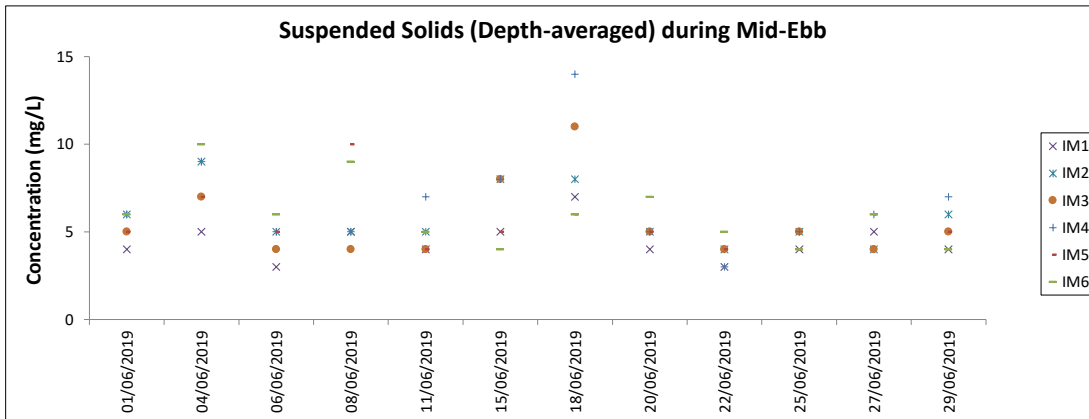
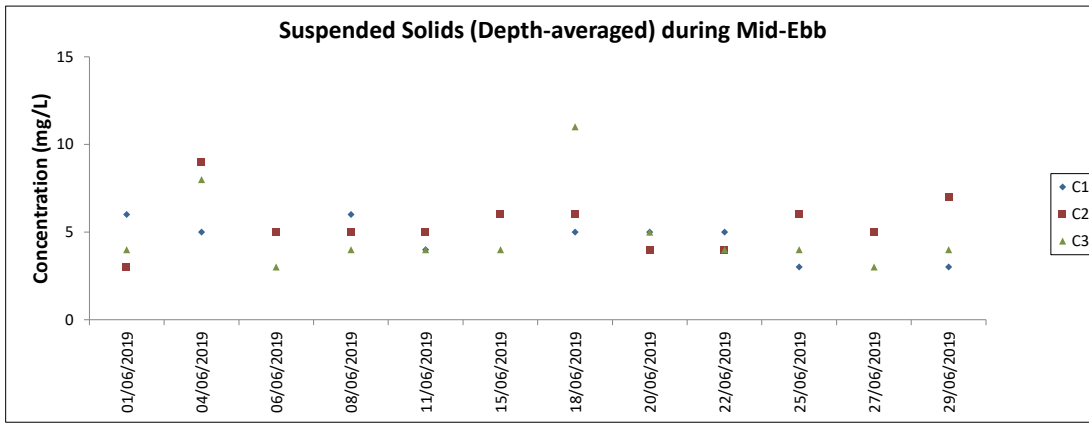


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

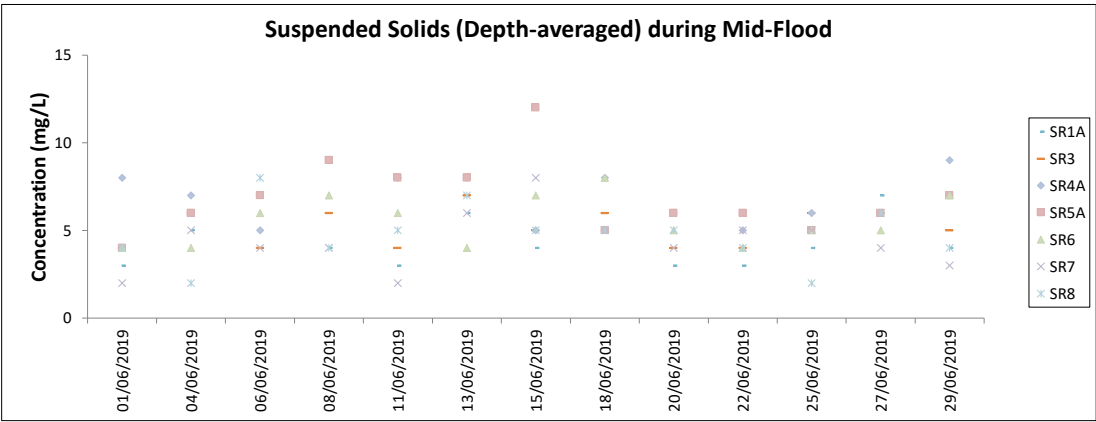
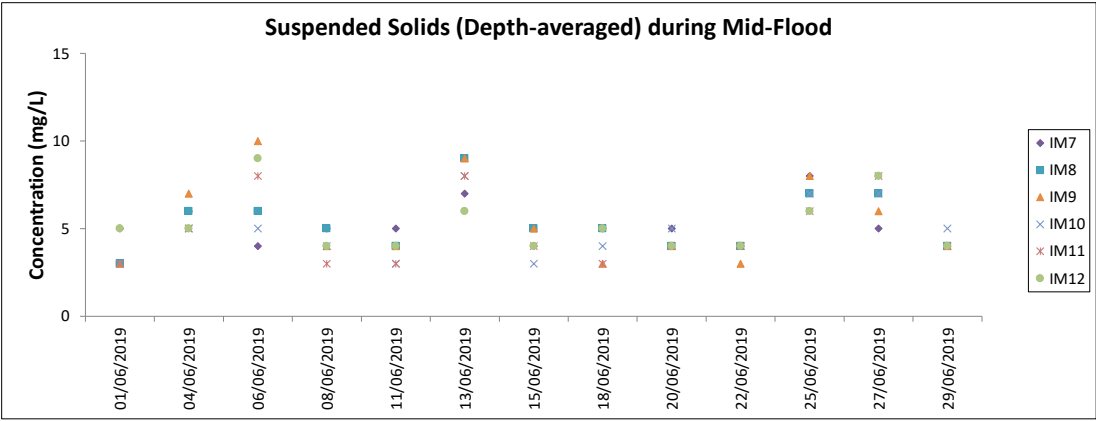
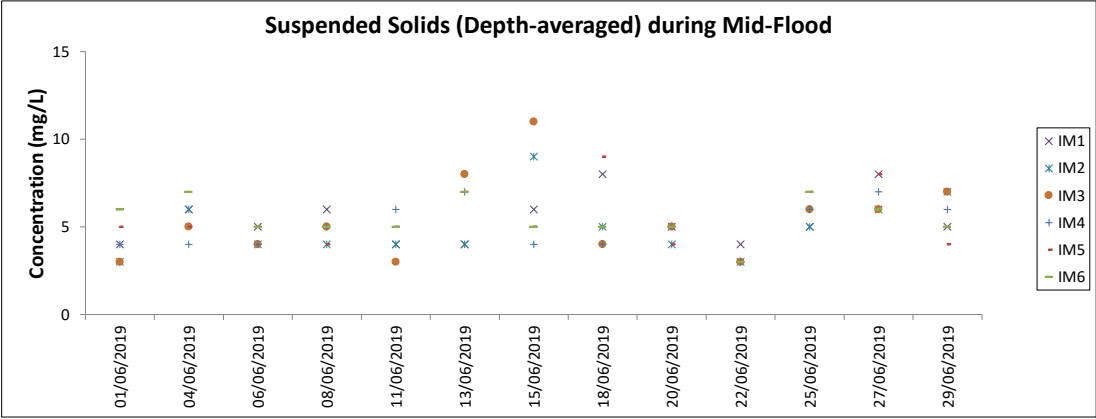
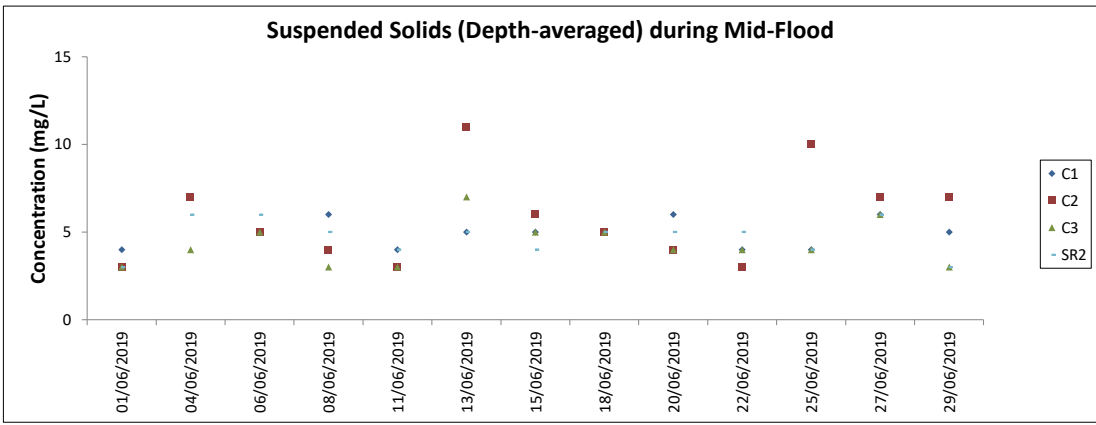


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

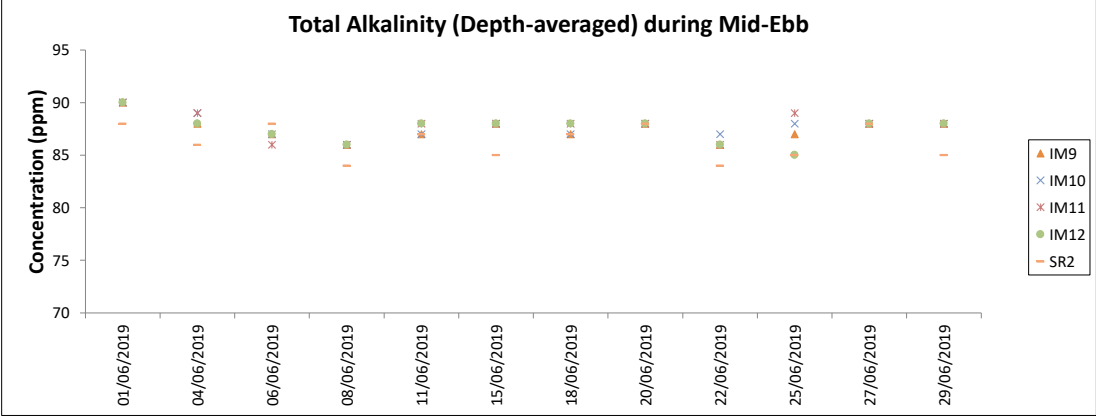
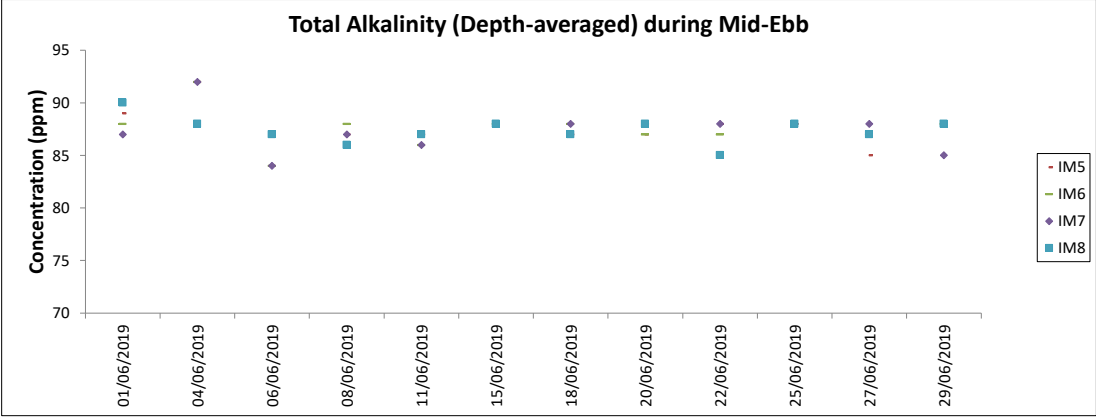
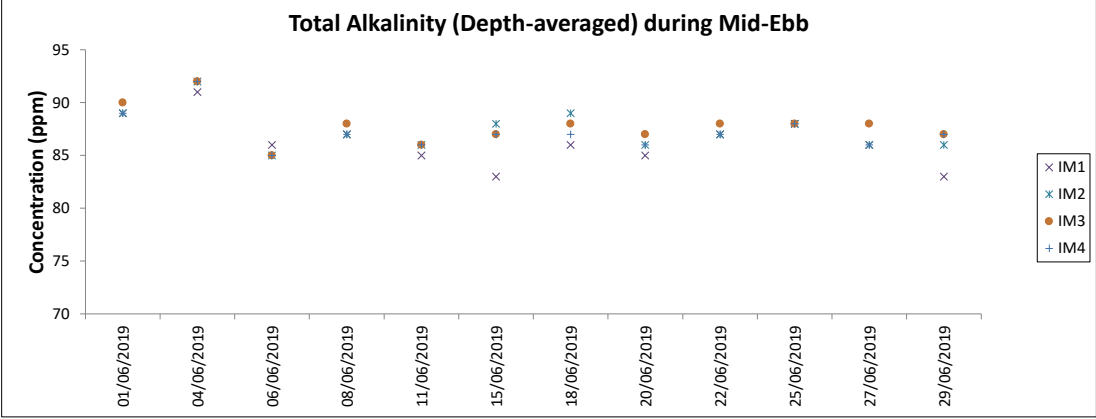
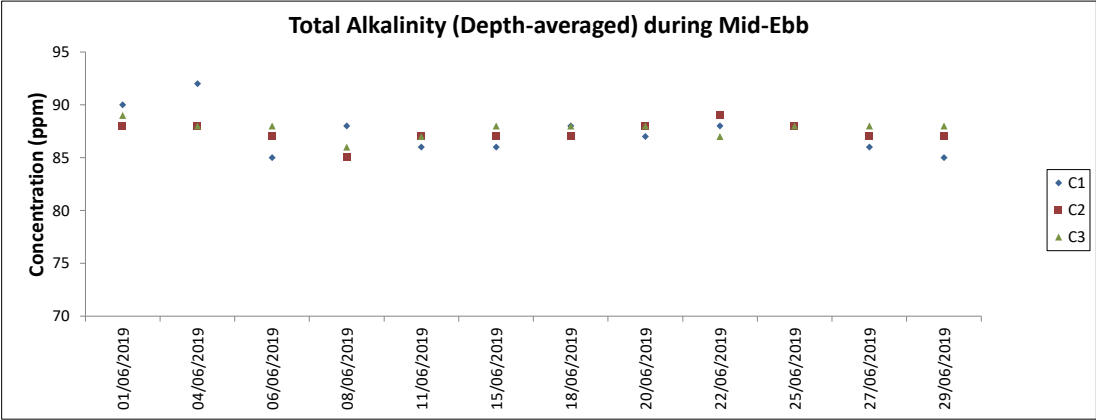




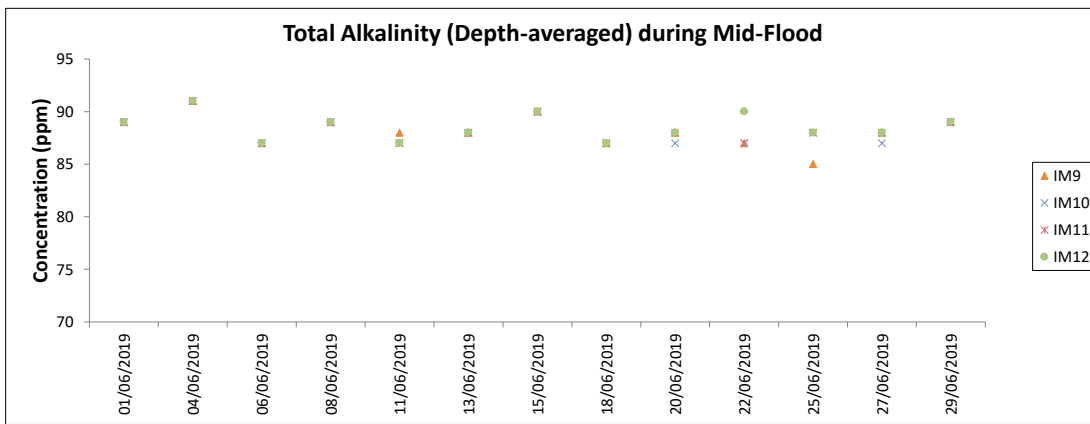
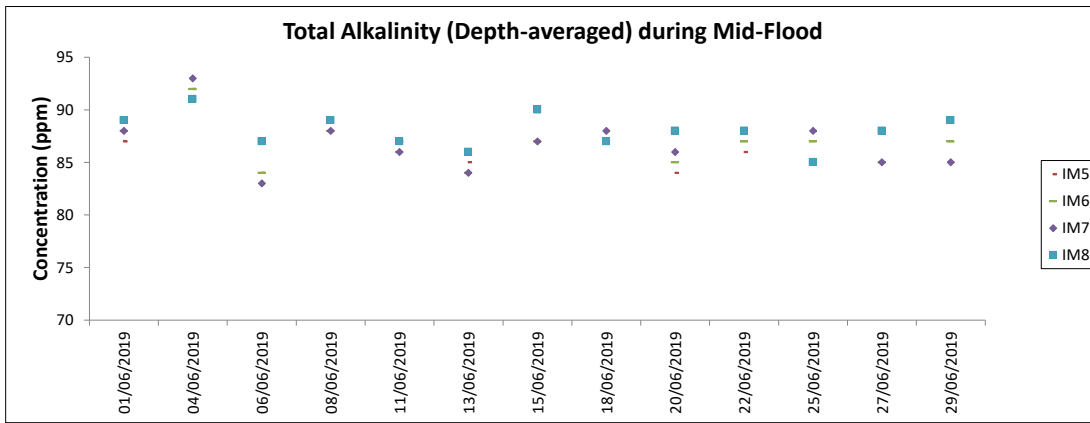
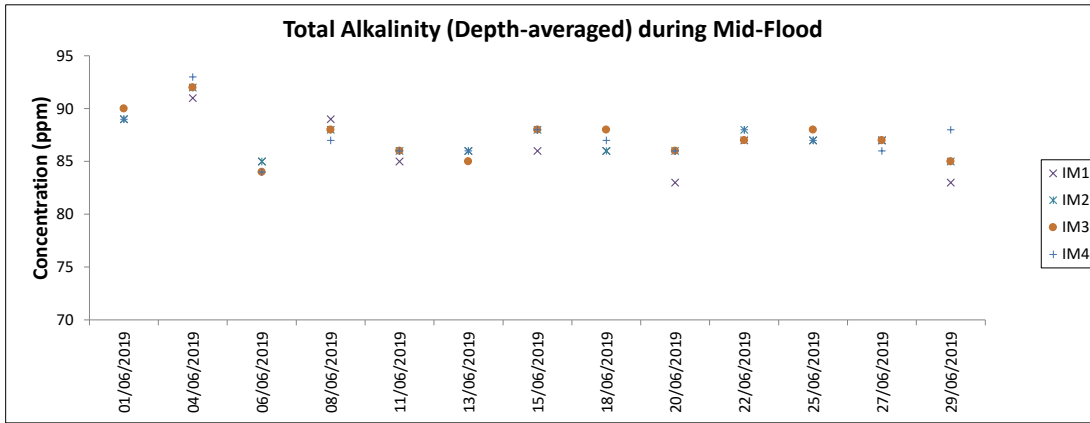
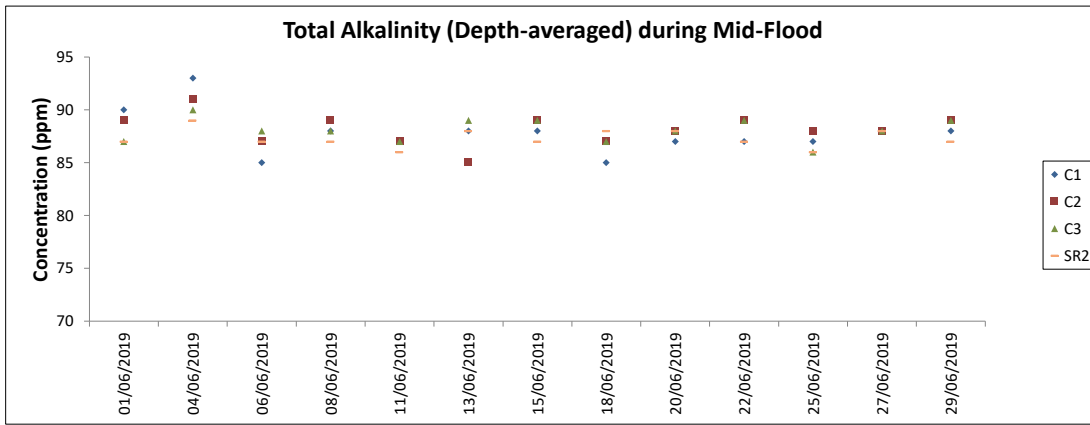
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



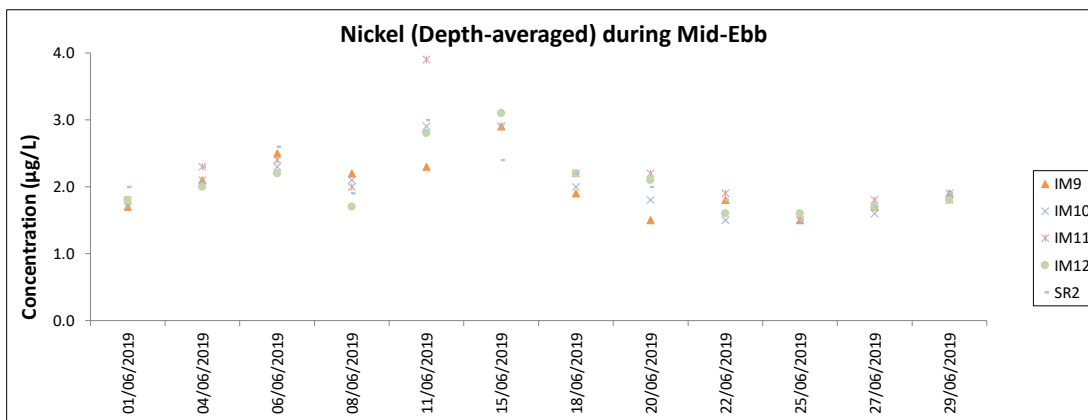
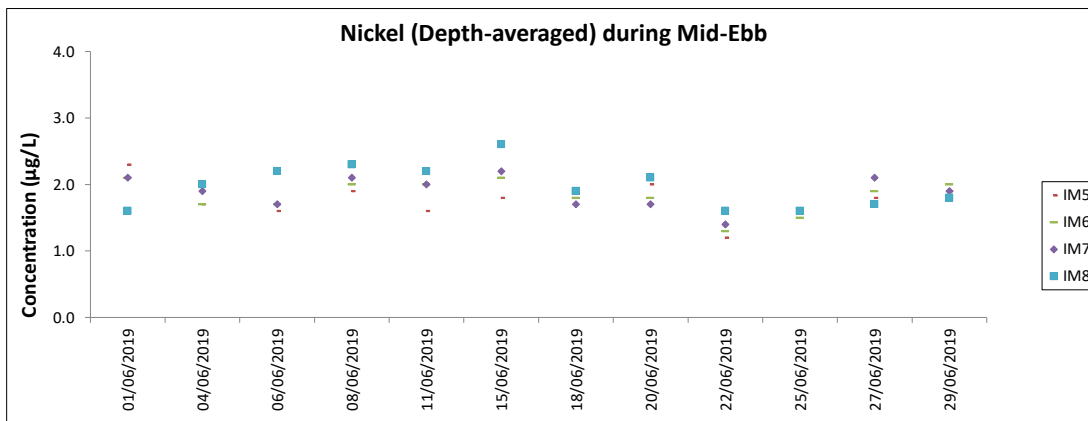
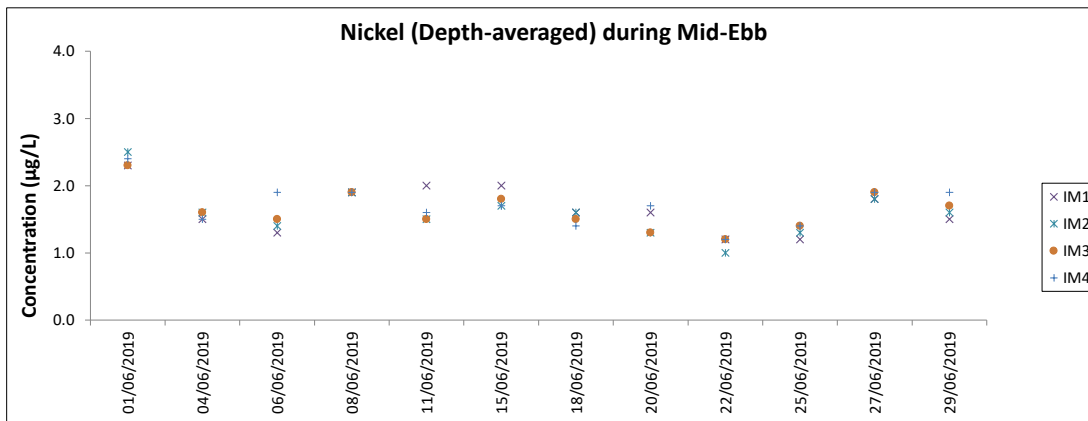
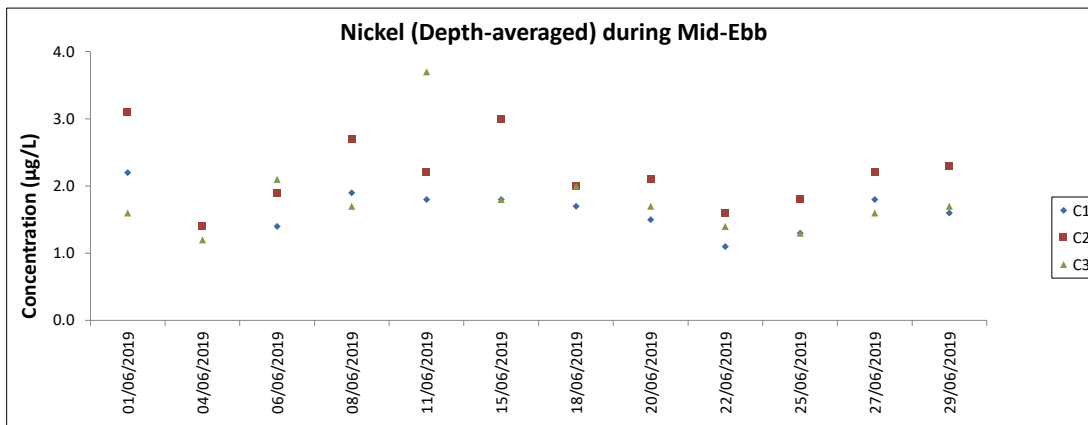
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



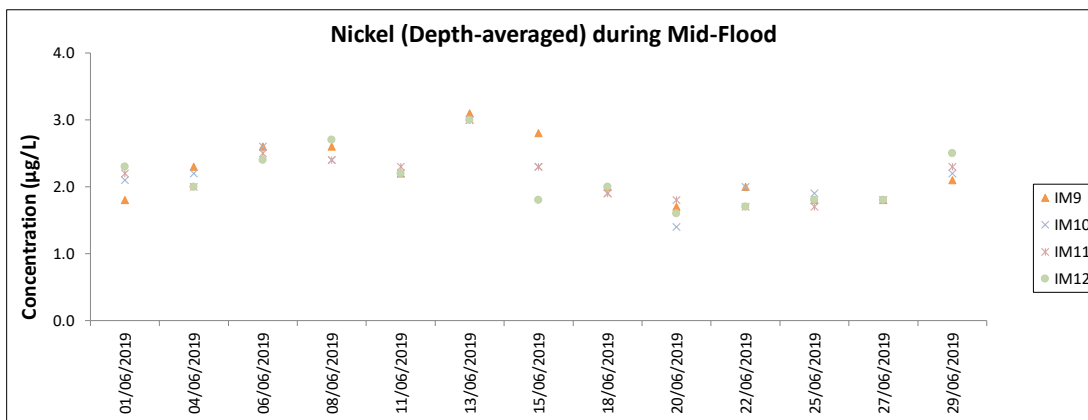
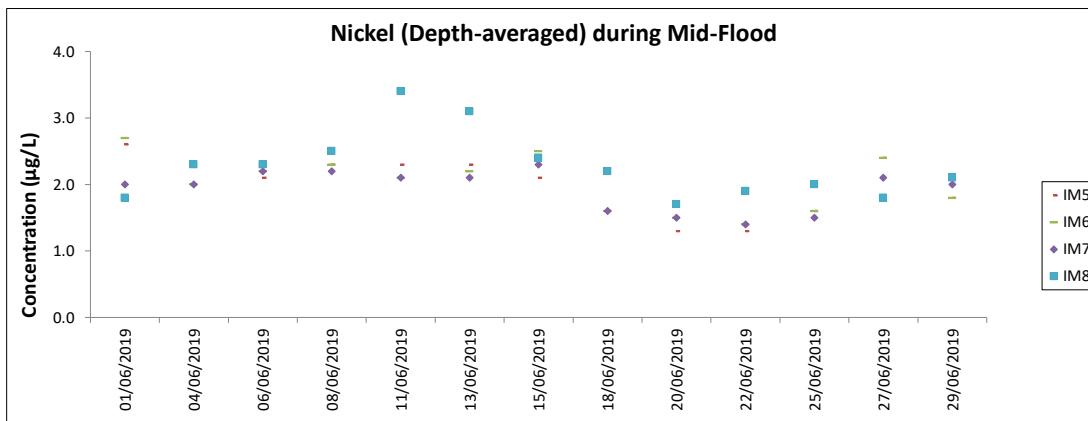
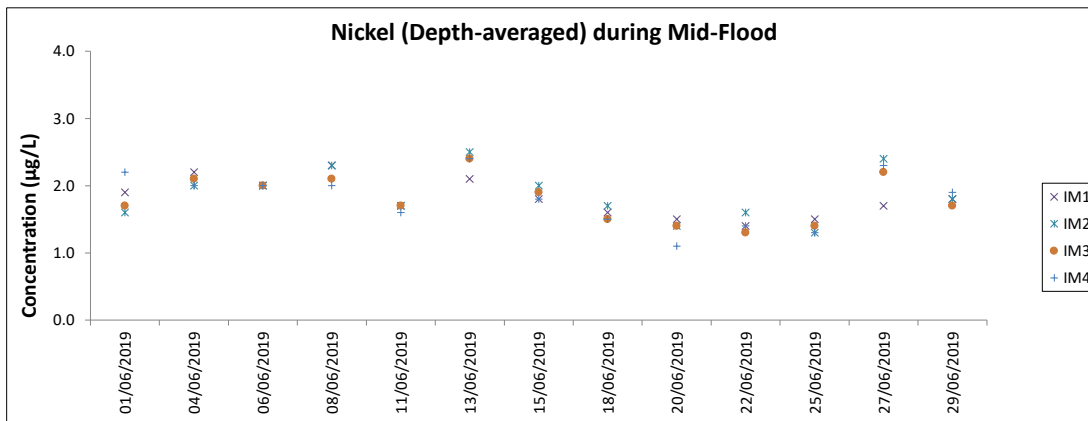
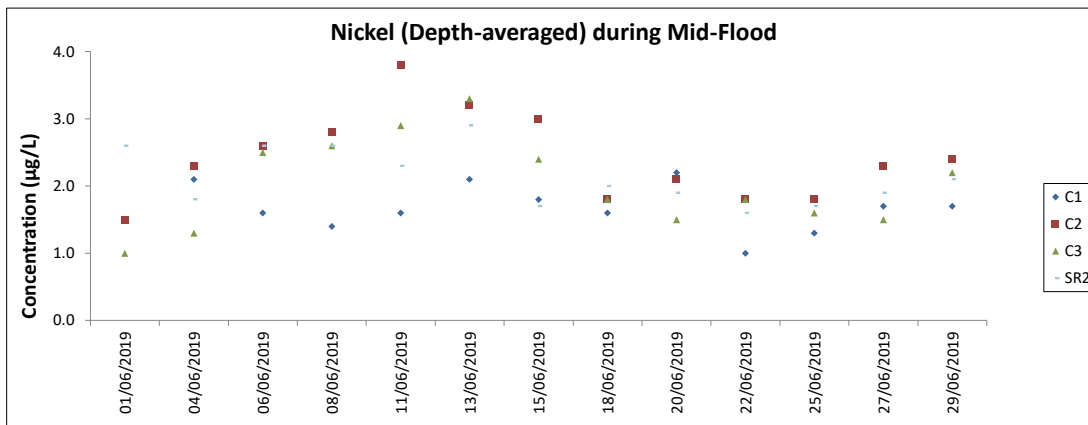
Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.



Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.



Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.  
All chromium results in the reporting period was below the reporting limit 0.2 µg/L.



Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.  
 All chromium results in the reporting period was below the reporting limit 0.2 µg/L.  
 Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.  
 Weather conditions during monitoring are presented in the data tables above.  
 QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

## **Chinese White Dolphin Monitoring Results**

## CWD Small Vessel Line-transect Survey

## Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
2-Apr-19	NEL	2	3.760	SPRING	32166	3RS ET	P
2-Apr-19	NEL	3	32.560	SPRING	32166	3RS ET	P
2-Apr-19	NEL	4	1.300	SPRING	32166	3RS ET	P
2-Apr-19	NEL	2	2.950	SPRING	32166	3RS ET	S
2-Apr-19	NEL	3	6.330	SPRING	32166	3RS ET	S
3-Apr-19	AW	3	4.860	SPRING	32166	3RS ET	P
3-Apr-19	WL	2	16.868	SPRING	32166	3RS ET	P
3-Apr-19	WL	3	6.320	SPRING	32166	3RS ET	P
3-Apr-19	WL	2	5.681	SPRING	32166	3RS ET	S
3-Apr-19	WL	3	3.930	SPRING	32166	3RS ET	S
9-Apr-19	SWL	2	4.100	SPRING	32166	3RS ET	P
9-Apr-19	SWL	3	50.530	SPRING	32166	3RS ET	P
9-Apr-19	SWL	4	1.000	SPRING	32166	3RS ET	P
9-Apr-19	SWL	2	1.200	SPRING	32166	3RS ET	S
9-Apr-19	SWL	3	13.470	SPRING	32166	3RS ET	S
11-Apr-19	SWL	2	50.110	SPRING	32166	3RS ET	P
11-Apr-19	SWL	3	5.000	SPRING	32166	3RS ET	P
11-Apr-19	SWL	2	13.420	SPRING	32166	3RS ET	S
11-Apr-19	SWL	3	2.340	SPRING	32166	3RS ET	S
17-Apr-19	AW	2	4.700	SPRING	32166	3RS ET	P
17-Apr-19	WL	1	3.160	SPRING	32166	3RS ET	P
17-Apr-19	WL	2	6.754	SPRING	32166	3RS ET	P
17-Apr-19	WL	3	13.978	SPRING	32166	3RS ET	P
17-Apr-19	WL	1	2.450	SPRING	32166	3RS ET	S
17-Apr-19	WL	2	2.196	SPRING	32166	3RS ET	S
17-Apr-19	WL	3	3.312	SPRING	32166	3RS ET	S
18-Apr-19	NEL	2	3.820	SPRING	32166	3RS ET	P
18-Apr-19	NEL	3	32.970	SPRING	32166	3RS ET	P
18-Apr-19	NEL	2	3.510	SPRING	32166	3RS ET	S
18-Apr-19	NEL	3	6.500	SPRING	32166	3RS ET	S
24-Apr-19	NWL	2	24.330	SPRING	32166	3RS ET	P
24-Apr-19	NWL	3	38.410	SPRING	32166	3RS ET	P
24-Apr-19	NWL	2	7.110	SPRING	32166	3RS ET	S
24-Apr-19	NWL	3	5.150	SPRING	32166	3RS ET	S
25-Apr-19	NWL	2	15.581	SPRING	32166	3RS ET	P
25-Apr-19	NWL	3	45.251	SPRING	32166	3RS ET	P
25-Apr-19	NWL	4	1.100	SPRING	32166	3RS ET	P
25-Apr-19	NWL	2	4.530	SPRING	32166	3RS ET	S
25-Apr-19	NWL	3	7.379	SPRING	32166	3RS ET	S
3-May-19	NEL	2	9.550	SPRING	32166	3RS ET	P
3-May-19	NEL	3	27.830	SPRING	32166	3RS ET	P
3-May-19	NEL	2	5.120	SPRING	32166	3RS ET	S
3-May-19	NEL	3	5.300	SPRING	32166	3RS ET	S
8-May-19	AW	3	2.330	SPRING	32166	3RS ET	P
8-May-19	AW	4	2.340	SPRING	32166	3RS ET	P
8-May-19	WL	2	8.310	SPRING	32166	3RS ET	P
8-May-19	WL	3	5.280	SPRING	32166	3RS ET	P



DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
8-May-19	WL	4	7.050	SPRING	32166	3RS ET	P
8-May-19	WL	2	5.150	SPRING	32166	3RS ET	S
8-May-19	WL	3	2.580	SPRING	32166	3RS ET	S
8-May-19	WL	4	3.130	SPRING	32166	3RS ET	S
9-May-19	NEL	1	2.300	SPRING	32166	3RS ET	P
9-May-19	NEL	2	32.170	SPRING	32166	3RS ET	P
9-May-19	NEL	3	3.160	SPRING	32166	3RS ET	P
9-May-19	NEL	1	1.000	SPRING	32166	3RS ET	S
9-May-19	NEL	2	8.970	SPRING	32166	3RS ET	S
10-May-19	SWL	2	6.600	SPRING	32166	3RS ET	P
10-May-19	SWL	3	48.980	SPRING	32166	3RS ET	P
10-May-19	SWL	2	2.120	SPRING	32166	3RS ET	S
10-May-19	SWL	3	13.300	SPRING	32166	3RS ET	S
14-May-19	AW	2	4.730	SPRING	32166	3RS ET	P
14-May-19	WL	2	12.245	SPRING	32166	3RS ET	P
14-May-19	WL	3	6.915	SPRING	32166	3RS ET	P
14-May-19	WL	2	5.880	SPRING	32166	3RS ET	S
14-May-19	WL	3	4.048	SPRING	32166	3RS ET	S
15-May-19	NWL	2	36.790	SPRING	32166	3RS ET	P
15-May-19	NWL	3	26.720	SPRING	32166	3RS ET	P
15-May-19	NWL	2	7.310	SPRING	32166	3RS ET	S
15-May-19	NWL	3	4.710	SPRING	32166	3RS ET	S
16-May-19	NWL	2	4.080	SPRING	32166	3RS ET	P
16-May-19	NWL	3	44.920	SPRING	32166	3RS ET	P
16-May-19	NWL	4	13.900	SPRING	32166	3RS ET	P
16-May-19	NWL	3	11.800	SPRING	32166	3RS ET	S
16-May-19	NWL	4	0.300	SPRING	32166	3RS ET	S
27-May-19	SWL	2	29.957	SPRING	32166	3RS ET	P
27-May-19	SWL	3	24.860	SPRING	32166	3RS ET	P
27-May-19	SWL	2	12.763	SPRING	32166	3RS ET	S
27-May-19	SWL	3	1.400	SPRING	32166	3RS ET	S
4-Jun-19	NEL	2	27.350	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	3	7.700	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	4	2.600	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	2	7.050	SUMMER	32166	3RS ET	S
4-Jun-19	NEL	3	3.200	SUMMER	32166	3RS ET	S
6-Jun-19	AW	2	4.730	SUMMER	32166	3RS ET	P
6-Jun-19	WL	2	7.467	SUMMER	32166	3RS ET	P
6-Jun-19	WL	3	12.575	SUMMER	32166	3RS ET	P
6-Jun-19	WL	2	1.850	SUMMER	32166	3RS ET	S
6-Jun-19	WL	3	7.388	SUMMER	32166	3RS ET	S
6-Jun-19	WL	4	0.570	SUMMER	32166	3RS ET	S
11-Jun-19	NEL	1	1.600	SUMMER	32166	3RS ET	P
11-Jun-19	NEL	2	34.960	SUMMER	32166	3RS ET	P
11-Jun-19	NEL	1	1.200	SUMMER	32166	3RS ET	S
11-Jun-19	NEL	2	10.140	SUMMER	32166	3RS ET	S
17-Jun-19	SWL	3	10.690	SUMMER	32166	3RS ET	P
17-Jun-19	SWL	4	44.330	SUMMER	32166	3RS ET	P
17-Jun-19	SWL	2	0.900	SUMMER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
17-Jun-19	SWL	3	2.800	SUMMER	32166	3RS ET	S
17-Jun-19	SWL	4	12.480	SUMMER	32166	3RS ET	S
18-Jun-19	SWL	2	51.312	SUMMER	32166	3RS ET	P
18-Jun-19	SWL	3	2.970	SUMMER	32166	3RS ET	P
18-Jun-19	SWL	2	10.560	SUMMER	32166	3RS ET	S
18-Jun-19	SWL	3	3.830	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	1	7.700	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	2	30.077	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	3	24.682	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	1	3.900	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	2	6.050	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	3	2.491	SUMMER	32166	3RS ET	S
26-Jun-19	AW	2	5.100	SUMMER	32166	3RS ET	P
26-Jun-19	WL	2	18.167	SUMMER	32166	3RS ET	P
26-Jun-19	WL	3	2.710	SUMMER	32166	3RS ET	P
26-Jun-19	WL	2	9.143	SUMMER	32166	3RS ET	S
26-Jun-19	WL	3	1.810	SUMMER	32166	3RS ET	S
27-Jun-19	NWL	2	4.700	SUMMER	32166	3RS ET	P
27-Jun-19	NWL	3	58.800	SUMMER	32166	3RS ET	P
27-Jun-19	NWL	2	2.200	SUMMER	32166	3RS ET	S
27-Jun-19	NWL	3	9.600	SUMMER	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months (i.e. April 2019 and May 2019) are presented for reference only.

## CWD Small Vessel Line-transect Survey

## Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
3-Apr-19	1	1028	CWD	1	WL	2	355	ON	3RS ET	22.2658	113.8586	SPRING	NONE	S
3-Apr-19	2	1043	CWD	1	WL	2	202	ON	3RS ET	22.2603	113.8457	SPRING	NONE	P
3-Apr-19	3	1148	CWD	21	WL	3	728	ON	3RS ET	22.2187	113.8197	SPRING	PAIR TRAWLER	S
11-Apr-19	1	1041	FP	4	SWL	3	256	ON	3RS ET	22.1688	113.8569	SPRING	NONE	S
17-Apr-19	1	1043	CWD	3	WL	2	195	ON	3RS ET	22.2499	113.8366	SPRING	NONE	P
17-Apr-19	2	1059	CWD	1	WL	2	474	ON	3RS ET	22.2413	113.8370	SPRING	NONE	P
17-Apr-19	3	1114	CWD	2	WL	2	567	ON	3RS ET	22.2390	113.8271	SPRING	NONE	S
17-Apr-19	4	1127	CWD	4	WL	2	55	ON	3RS ET	22.2358	113.8250	SPRING	NONE	S
17-Apr-19	5	1143	CWD	3	WL	2	224	ON	3RS ET	22.2322	113.8308	SPRING	NONE	P
17-Apr-19	6	1200	CWD	4	WL	3	246	ON	3RS ET	22.2230	113.8306	SPRING	NONE	P
24-Apr-19	1	1038	CWD	1	NWL	3	33	ON	3RS ET	22.2711	113.8716	SPRING	NONE	S
25-Apr-19	1	0946	CWD	3	NWL	2	182	ON	3RS ET	22.3854	113.8697	SPRING	NONE	P
25-Apr-19	2	1000	CWD	2	NWL	2	319	ON	3RS ET	22.3797	113.8705	SPRING	NONE	P
25-Apr-19	3	1055	CWD	3	NWL	3	473	ON	3RS ET	22.2795	113.8699	SPRING	NONE	P
8-May-19	1	1120	CWD	12	WL	3	72	ON	3RS ET	22.2321	113.8295	SPRING	NONE	P
14-May-19	1	1038	CWD	2	WL	2	169	ON	3RS ET	22.2606	113.8545	SPRING	NONE	S
14-May-19	2	1102	CWD	7	WL	2	505	ON	3RS ET	22.2496	113.8407	SPRING	NONE	P
14-May-19	3	1229	CWD	4	WL	3	171	ON	3RS ET	22.2012	113.8245	SPRING	NONE	S
14-May-19	4	1249	CWD	8	WL	3	126	ON	3RS ET	22.1962	113.8363	SPRING	NONE	P
14-May-19	5	1318	CWD	2	WL	2	396	ON	3RS ET	22.1926	113.8423	SPRING	NONE	S
15-May-19	1	0955	CWD	2	NWL	2	305	ON	3RS ET	22.3681	113.8700	SPRING	NONE	P
15-May-19	2	1054	CWD	1	NWL	3	1539	ON	3RS ET	22.2727	113.8701	SPRING	NONE	P
15-May-19	3	1348	CWD	4	NWL	2	6	ON	3RS ET	22.4008	113.8978	SPRING	NONE	P
27-May-19	1	1210	FP	2	SWL	2	171	ON	3RS ET	22.1536	113.9084	SPRING	NONE	P
27-May-19	2	1316	FP	1	SWL	2	4	ON	3RS ET	22.1584	113.8976	SPRING	NONE	P
27-May-19	3	1443	CWD	4	SWL	2	15	ON	3RS ET	22.1987	113.8692	SPRING	NONE	P
6-Jun-19	1	1052	CWD	3	WL	3	325	ON	3RS ET	22.2518	113.8337	SUMMER	NONE	S
6-Jun-19	2	1123	CWD	6	WL	2	214	ON	3RS ET	22.2445	113.8496	SUMMER	NONE	S
6-Jun-19	3	1221	CWD	2	WL	2	82	ON	3RS ET	22.2144	113.8319	SUMMER	NONE	P
18-Jun-19	1	1134	CWD	1	SWL	2	22	ON	3RS ET	22.2055	113.9224	SUMMER	NONE	S
18-Jun-19	2	1406	CWD	3	SWL	2	89	ON	3RS ET	22.2096	113.8827	SUMMER	NONE	S

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
18-Jun-19	3	1505	CWD	4	SWL	2	348	ON	3RS ET	22.1764	113.8690	SUMMER	NONE	P
18-Jun-19	4	1603	CWD	1	SWL	2	70	ON	3RS ET	22.1866	113.8494	SUMMER	NONE	P
18-Jun-19	5	1609	CWD	4	SWL	2	225	ON	3RS ET	22.1892	113.8496	SUMMER	PURSE SEINER	P
19-Jun-19	1	1131	CWD	5	NWL	2	70	ON	3RS ET	22.3867	113.8780	SUMMER	NONE	P
19-Jun-19	2	1323	CWD	1	NWL	3	119	ON	3RS ET	22.3999	113.8974	SUMMER	NONE	P
26-Jun-19	1	1052	CWD	7	WL	2	117	ON	3RS ET	22.2231	113.8350	SUMMER	NONE	P
26-Jun-19	2	1211	CWD	3	WL	3	664	ON	3RS ET	22.2054	113.8309	SUMMER	NONE	P

Abbreviations: STG# = Sighting Number; GP SZ = Group Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance (in metres); N/A = Not Applicable; DEC LAT = Latitude (WGS84 in Decimal), DEC LON = Longitude (WGS84 in Decimal); BOAT ASSOC. = Fishing Boat Association; P/S = Primary Transect / Secondary Transect

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. April 2019 and May 2019) are presented for reference only. No relevant figure or text will be mentioned in this monthly EM&A report.

Sighting data of finless porpoise (FP) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report. All FP sightings are excluded in calculation.

Calculation of the June 2019 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 397.402 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 12 on-effort sightings and total number of 40 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in June 2019 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in June 2019

$$STG = \frac{12}{397.402} \times 100 = 3.02$$

Encounter Rate by Number of Dolphins (ANI) in June 2019

$$ANI = \frac{40}{397.402} \times 100 = 10.07$$

Calculation of the running quarterly STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 1281.100 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 35 on-effort sightings and total number of 135 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

Running Quarterly Encounter Rate by Number of Dolphin Sightings (STG)









$$STG = \frac{35}{1281.100} \times 100 = 2.73$$

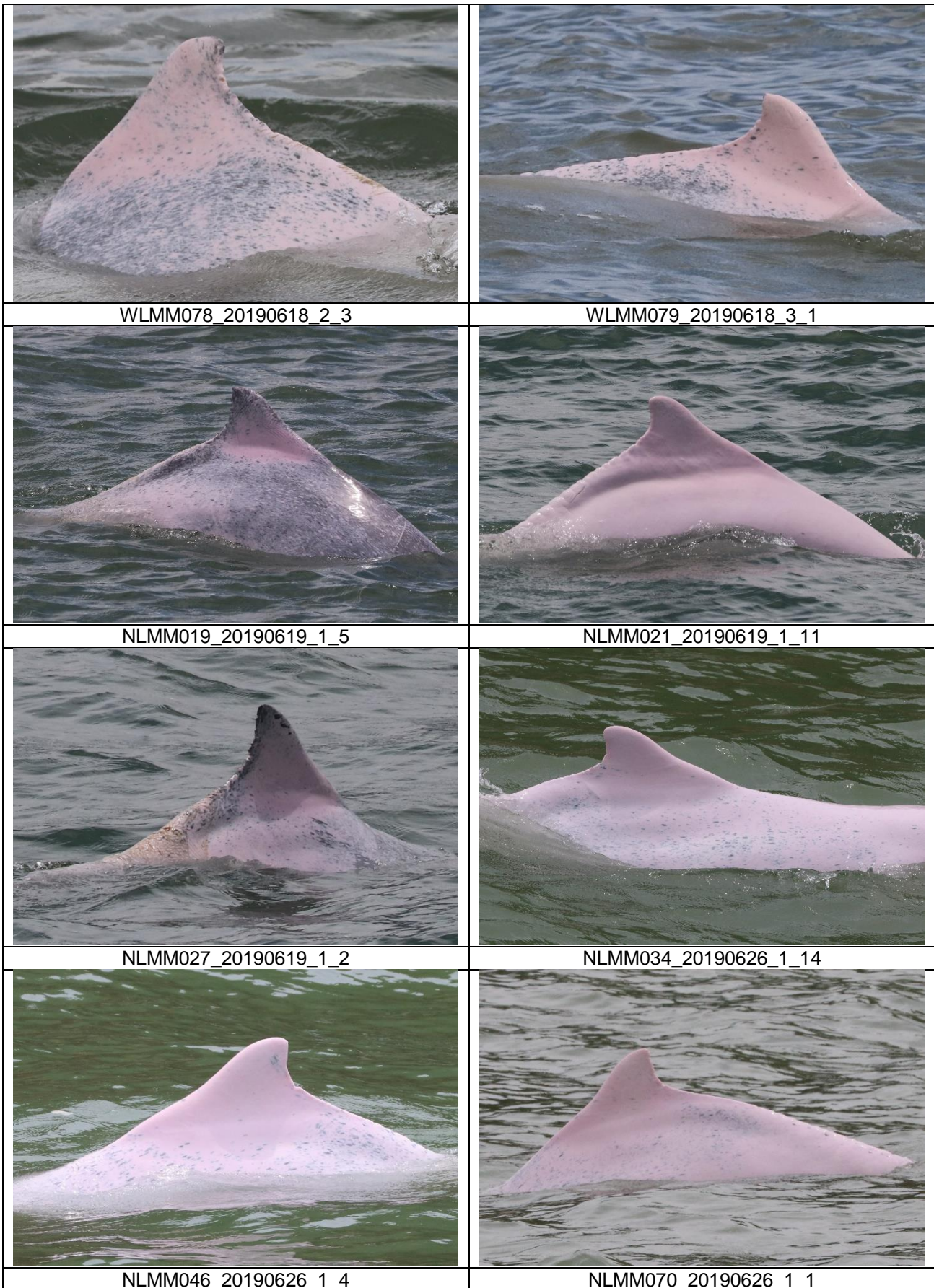
Running Quarterly Encounter Rate by Number of Dolphins (ANI)






$$ANI = \frac{135}{1281.100} \times 100 = 10.54$$

CWD Small Vessel Line-transect Survey

Photo Identification

	
WLMM068_20190606_1_2	WLMM043_20190606_2_9
	
WLMM083_20190606_2_17	WLMM138_20190606_2_7
	
WLMM131_20190606_3_6	SLMM028_20190618_1_6
	
SLMM011_20190618_2_1	WLMM027_20190618_2_4



	
WLMM043_20190626_1_1	WLMM052_20190626_1_7
	
WLMM122_20190626_1_16	SLMM025_20190626_2_8
	
WLMM073_20190626_2_11	

**CWD Land-based Theodolite Tracking Survey****CWD Groups by Survey Date**

<b>Date</b>	<b>Station</b>	<b>Start Time</b>	<b>End Time</b>	<b>Duration</b>	<b>Beaufort Range</b>	<b>Visibility</b>	<b>No. of Focal Follow Dolphin Groups Tracked</b>	<b>Dolphin Group Size Range</b>
5/Jun/19	Lung Kwu Chau	8:51	14:51	6:00	2	2	3	2-3
18/Jun/19	Sha Chau	9:30	15:30	6:00	2	2	0	-
21/Jun/19	Lung Kwu Chau	8:55	14:55	6:00	2-3	2	0	-

Visibility: 1=Excellent, 2=Good, 3=Fair, 4=Poor