

Appendix E. Monitoring Results

Air Quality Monitoring Results

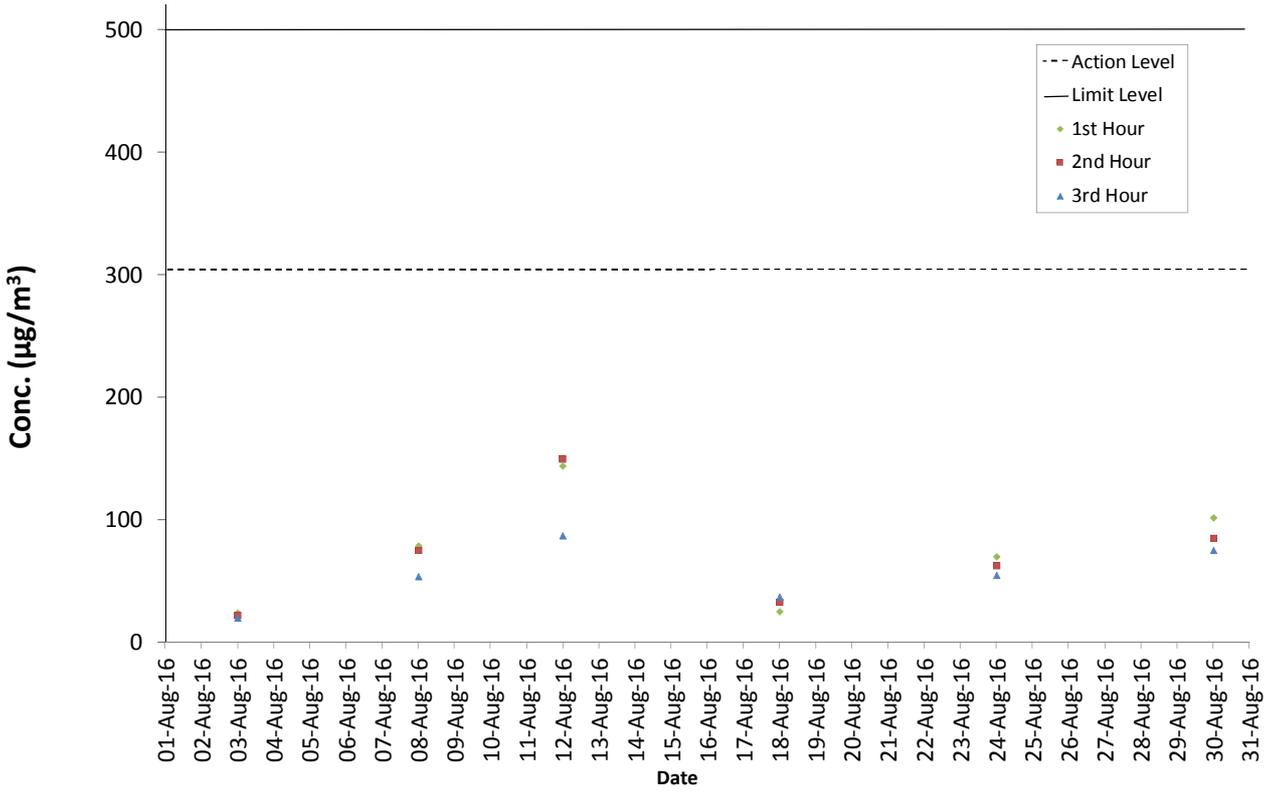
1-hour TSP Results**Station: AR1A- Man Tung Road Park**

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-Aug-16	14:00	Cloudy	3.9	93	24	306	500
03-Aug-16	15:00	Cloudy	5.0	77	22	306	500
03-Aug-16	16:00	Cloudy	5.2	147	20	306	500
08-Aug-16	14:00	Sunny	9.6	62	79	306	500
08-Aug-16	15:00	Sunny	9.5	64	75	306	500
08-Aug-16	16:00	Sunny	9.7	60	54	306	500
12-Aug-16	08:50	Rainy	3.5	233	144	306	500
12-Aug-16	09:50	Rainy	3.3	223	150	306	500
12-Aug-16	10:50	Rainy	3.2	226	87	306	500
18-Aug-16	08:55	Rainy	5.1	155	25	306	500
18-Aug-16	09:55	Rainy	7.5	159	33	306	500
18-Aug-16	10:55	Rainy	4.2	126	37	306	500
24-Aug-16	09:21	Sunny	1.7	343	70	306	500
24-Aug-16	10:21	Sunny	1.8	324	63	306	500
24-Aug-16	13:30	Sunny	4.2	272	55	306	500
30-Aug-16	08:45	Sunny	2.7	51	102	306	500
30-Aug-16	09:45	Sunny	2.9	46	85	306	500
30-Aug-16	10:45	Sunny	3.2	357	75	306	500

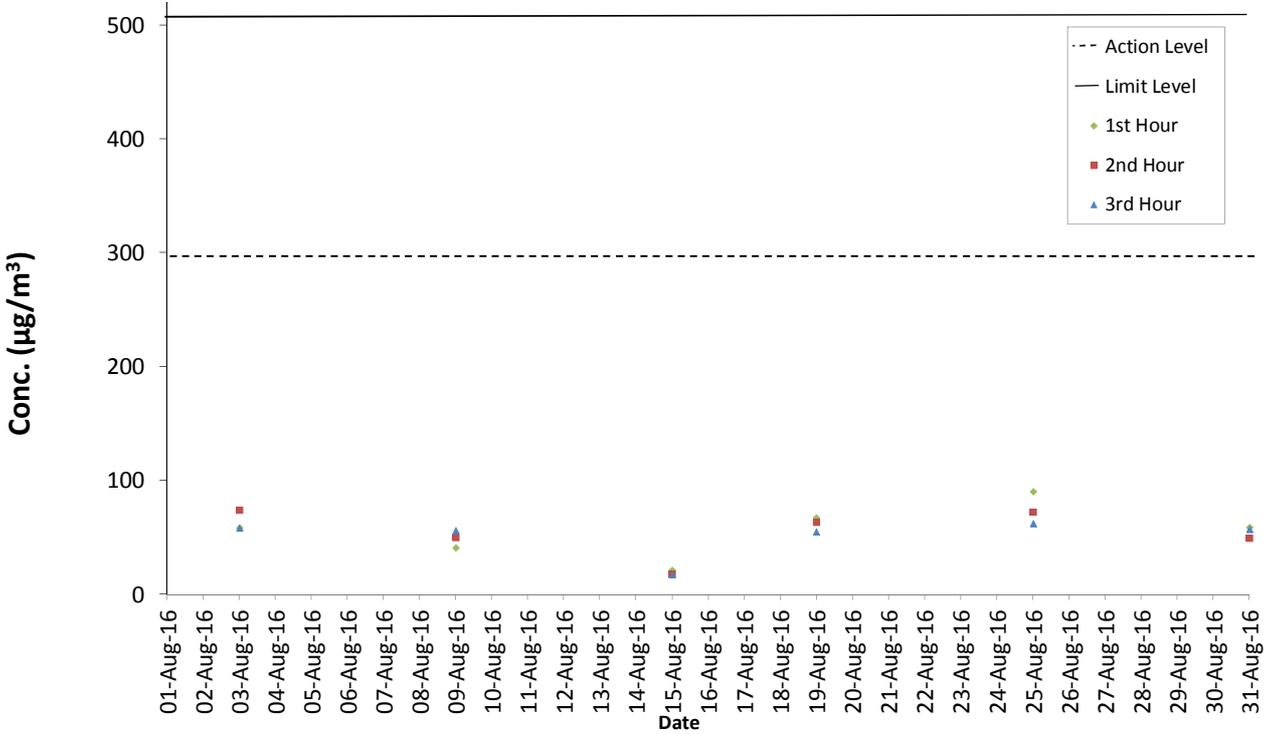
1-hour TSP Results**Station: AR2- Village House, Tin Sum**

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-Aug-16	08:55	Cloudy	2.2	91	58	298	500
03-Aug-16	09:55	Cloudy	5.2	196	74	298	500
03-Aug-16	10:55	Cloudy	7.9	140	58	298	500
09-Aug-16	08:50	Sunny	2.4	266	41	298	500
09-Aug-16	09:50	Sunny	1.4	317	50	298	500
09-Aug-16	10:50	Sunny	2.0	272	56	298	500
15-Aug-16	09:00	Cloudy	1.8	44	21	298	500
15-Aug-16	10:00	Cloudy	1.7	33	18	298	500
15-Aug-16	11:00	Cloudy	1.2	47	17	298	500
19-Aug-16	08:55	Sunny	3.9	169	67	298	500
19-Aug-16	09:55	Sunny	4.3	167	63	298	500
19-Aug-16	10:55	Sunny	2.6	310	55	298	500
25-Aug-16	09:00	Sunny	2.0	29	90	298	500
25-Aug-16	10:00	Sunny	2.5	32	72	298	500
25-Aug-16	11:00	Sunny	2.4	359	62	298	500
31-Aug-16	09:00	Fine	2.7	51	59	298	500
31-Aug-16	10:00	Fine	2.5	21	49	298	500
31-Aug-16	11:00	Fine	2.2	326	57	298	500

AR1A 1-Hour TSP



AR2 1-Hour TSP



Noise Monitoring Results

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
03-Aug-16	Cloudy	15:15	71.0	54.5	72
03-Aug-16	Cloudy	15:20	71.5	56.0	
03-Aug-16	Cloudy	15:25	73.0	55.5	
03-Aug-16	Cloudy	15:30	73.5	56.5	
03-Aug-16	Cloudy	15:35	72.5	57.0	
03-Aug-16	Cloudy	15:40	71.0	55.5	71
08-Aug-16	Sunny	15:25	70.0	54.0	
08-Aug-16	Sunny	15:30	71.5	55.5	
08-Aug-16	Sunny	15:35	71.5	54.5	
08-Aug-16	Sunny	15:40	71.5	54.0	
08-Aug-16	Sunny	15:45	70.0	55.5	68
08-Aug-16	Sunny	15:50	70.5	55.5	
18-Aug-16	Rainy	09:49	66.5	59.5	
18-Aug-16	Rainy	09:54	66.5	59.5	
18-Aug-16	Rainy	09:59	63.5	58.0	
18-Aug-16	Rainy	10:04	65.5	58.5	71
18-Aug-16	Rainy	10:09	69.5	61.5	
18-Aug-16	Rainy	10:14	68.0	61.0	
24-Aug-16	Sunny	09:43	71.5	56.5	
24-Aug-16	Sunny	09:48	70.5	57.5	
24-Aug-16	Sunny	09:53	71.5	58.0	71
24-Aug-16	Sunny	09:58	71.0	57.0	
24-Aug-16	Sunny	10:03	71.5	57.0	
24-Aug-16	Sunny	10:08	71.0	57.5	
30-Aug-16	Sunny	10:57	72.0	55.5	
30-Aug-16	Sunny	11:02	72.5	54.5	
30-Aug-16	Sunny	11:07	71.5	55.0	
30-Aug-16	Sunny	11:12	72.0	54.5	
30-Aug-16	Sunny	11:17	70.5	53.0	
30-Aug-16	Sunny	11:22	71.5	56.0	

Remarks:

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

Noise Measurement Results

Station: NM3A- Site Office

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
03-Aug-16	Cloudy	14:46	68.5	60.0	61
03-Aug-16	Cloudy	14:51	66.0	59.5	
03-Aug-16	Cloudy	14:56	66.0	59.5	
03-Aug-16	Cloudy	15:01	68.0	59.5	
03-Aug-16	Cloudy	15:06	70.5	59.5	
03-Aug-16	Cloudy	15:11	68.5	59.5	63
09-Aug-16	Sunny	09:50	63.5	61.5	
09-Aug-16	Sunny	09:55	62.5	61.5	
09-Aug-16	Sunny	10:00	64.5	62.0	
09-Aug-16	Sunny	10:05	63.0	62.0	
09-Aug-16	Sunny	10:10	62.5	61.5	63
09-Aug-16	Sunny	10:15	63.0	61.5	
15-Aug-16	Cloudy	14:33	72.0	60.5	
15-Aug-16	Cloudy	14:38	71.0	60.5	
15-Aug-16	Cloudy	14:43	68.5	60.5	
15-Aug-16	Cloudy	14:48	68.0	60.5	62
15-Aug-16	Cloudy	14:53	69.0	60.0	
15-Aug-16	Cloudy	14:58	67.0	60.0	
25-Aug-16	Sunny	14:20	61.5	61.0	
25-Aug-16	Sunny	14:25	62.5	61.0	
25-Aug-16	Sunny	14:30	62.0	61.0	60
25-Aug-16	Sunny	14:35	65.5	61.0	
25-Aug-16	Sunny	14:40	62.0	61.5	
25-Aug-16	Sunny	14:45	62.5	61.0	
31-Aug-16	Fine	14:36	61.0	59.5	
31-Aug-16	Fine	14:41	60.5	59.5	60
31-Aug-16	Fine	14:46	60.5	59.5	
31-Aug-16	Fine	14:51	61.0	59.5	
31-Aug-16	Fine	14:56	60.5	59.5	
31-Aug-16	Fine	15:01	61.5	60.0	

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Won Primary School

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
03-Aug-16	Cloudy	13:08	62.0	58.5	64
03-Aug-16	Cloudy	13:13	62.5	58.5	
03-Aug-16	Cloudy	13:18	62.0	59.5	
03-Aug-16	Cloudy	13:23	61.5	58.0	
03-Aug-16	Cloudy	13:28	63.0	58.0	
03-Aug-16	Cloudy	13:33	62.0	58.5	
08-Aug-16	Sunny	13:00	60.5	56.5	63
08-Aug-16	Sunny	13:05	61.0	57.0	
08-Aug-16	Sunny	13:10	63.0	57.5	
08-Aug-16	Sunny	13:15	62.0	58.0	
08-Aug-16	Sunny	13:20	63.0	58.0	
08-Aug-16	Sunny	13:25	62.5	58.0	
18-Aug-16	Rainy	13:32	63.0	60.5	65
18-Aug-16	Rainy	13:37	63.5	60.0	
18-Aug-16	Rainy	13:42	64.0	59.0	
18-Aug-16	Rainy	13:47	62.5	58.5	
18-Aug-16	Rainy	13:52	63.0	58.0	
18-Aug-16	Rainy	13:57	63.0	58.0	
24-Aug-16	Sunny	11:27	61.5	57.0	64
24-Aug-16	Sunny	11:32	62.5	58.0	
24-Aug-16	Sunny	11:37	62.5	57.0	
24-Aug-16	Sunny	11:42	62.5	57.5	
24-Aug-16	Sunny	11:47	62.0	57.0	
24-Aug-16	Sunny	11:52	66.0	60.5	
30-Aug-16	Sunny	13:45	62.5	58.0	64
30-Aug-16	Sunny	13:50	64.0	57.5	
30-Aug-16	Sunny	13:55	61.5	57.5	
30-Aug-16	Sunny	14:00	63.5	58.5	
30-Aug-16	Sunny	14:05	63.0	57.5	
30-Aug-16	Sunny	14:10	62.5	57.0	

Remarks:

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

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
03-Aug-16	Cloudy	09:10	54.5	47.5	53
03-Aug-16	Cloudy	09:15	50.0	47.0	
03-Aug-16	Cloudy	09:20	56.5	47.5	
03-Aug-16	Cloudy	09:25	60.5	48.0	
03-Aug-16	Cloudy	09:30	63.0	48.5	
03-Aug-16	Cloudy	09:35	63.5	48.5	
09-Aug-16	Sunny	09:15	52.5	48.0	53
09-Aug-16	Sunny	09:20	59.5	48.0	
09-Aug-16	Sunny	09:25	53.0	47.5	
09-Aug-16	Sunny	09:30	55.5	48.5	
09-Aug-16	Sunny	09:35	67.5	51.0	
09-Aug-16	Sunny	09:40	53.0	48.5	
15-Aug-16	Cloudy	09:10	57.0	50.0	59
15-Aug-16	Cloudy	09:15	56.5	49.0	
15-Aug-16	Cloudy	09:20	56.5	49.5	
15-Aug-16	Cloudy	09:25	61.0	50.0	
15-Aug-16	Cloudy	09:30	56.5	49.5	
15-Aug-16	Cloudy	09:35	59.0	51.0	
25-Aug-16	Sunny	09:15	58.5	47.5	57
25-Aug-16	Sunny	09:20	53.5	51.5	
25-Aug-16	Sunny	09:25	56.0	49.0	
25-Aug-16	Sunny	09:30	55.0	49.0	
25-Aug-16	Sunny	09:35	52.5	49.0	
25-Aug-16	Sunny	09:40	56.0	48.0	
31-Aug-16	Fine	09:13	53.5	48.0	58
31-Aug-16	Fine	09:18	61.0	47.0	
31-Aug-16	Fine	09:23	54.4	48.5	
31-Aug-16	Fine	09:28	56.5	48.5	
31-Aug-16	Fine	09:33	54.5	46.0	
31-Aug-16	Fine	09:38	54.5	49.5	

Remarks:

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

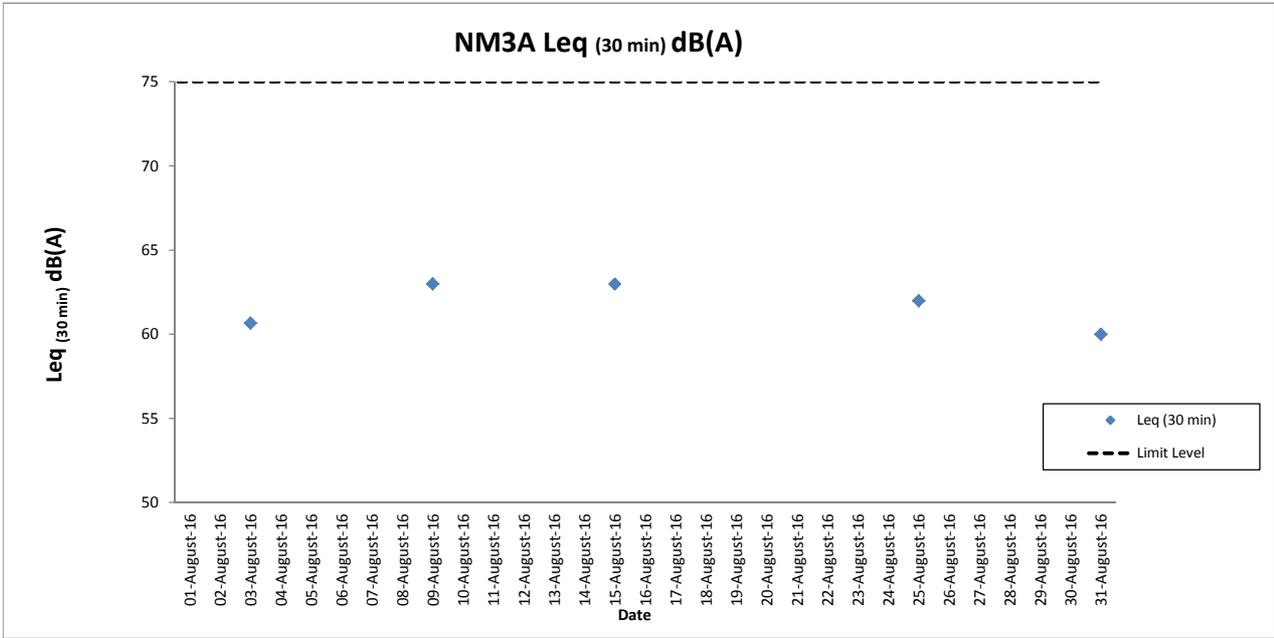
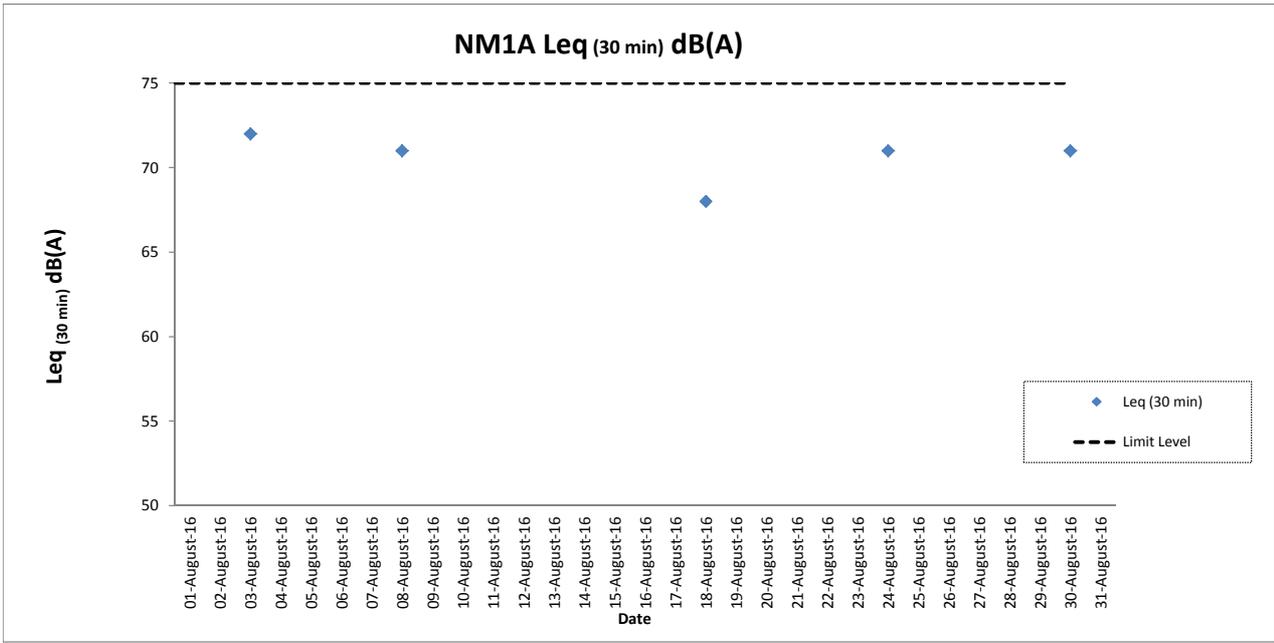
Noise Measurement Results

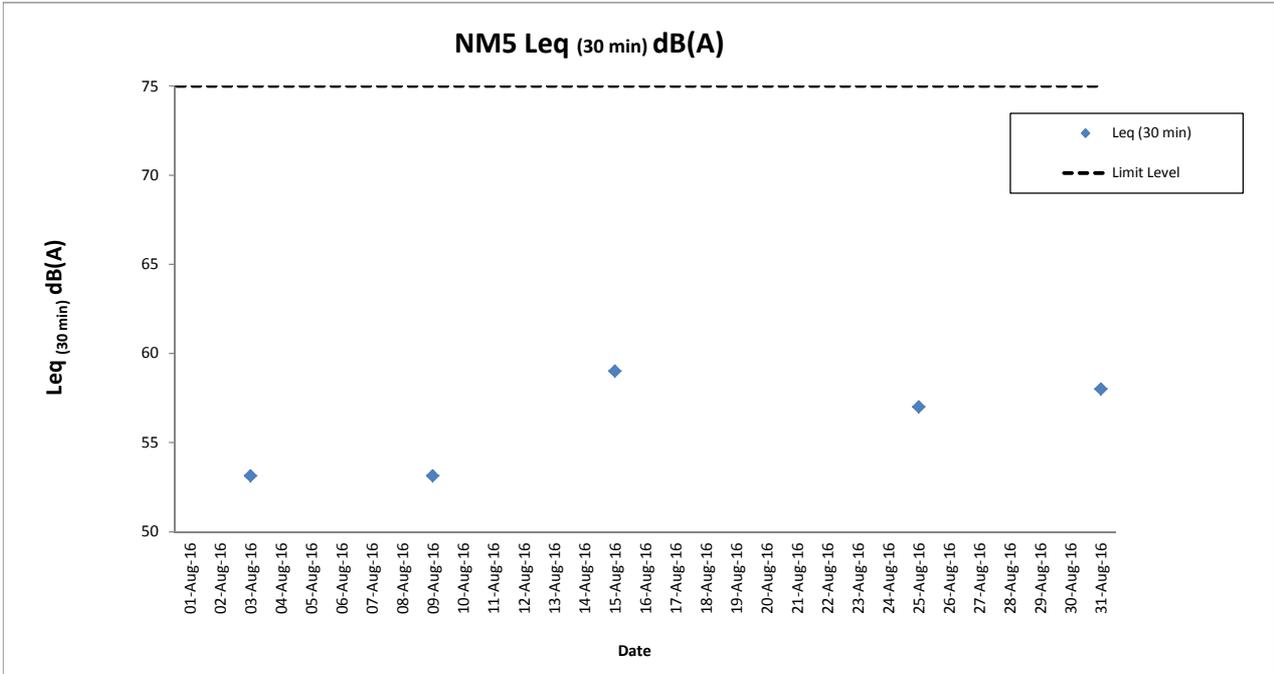
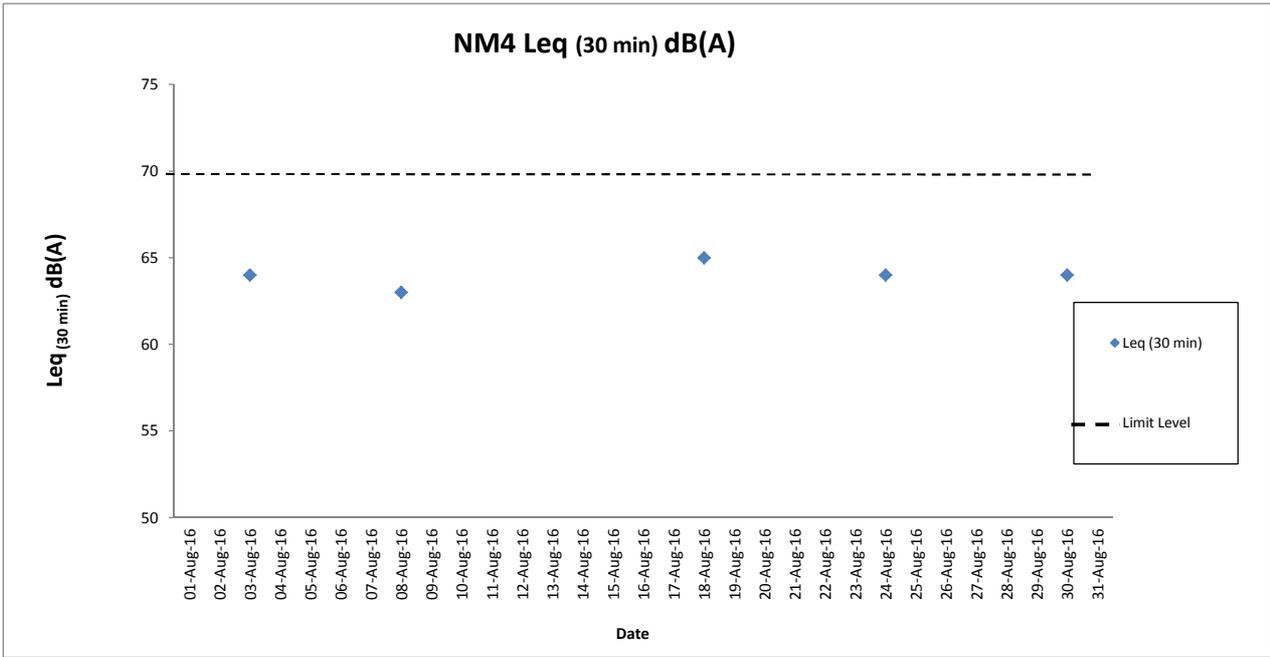
Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
05-Aug-16	Sunny	09:43	78.0	58.0	68
05-Aug-16	Sunny	09:48	67.0	57.0	
05-Aug-16	Sunny	09:53	71.5	59.0	
05-Aug-16	Sunny	09:58	66.5	54.5	
05-Aug-16	Sunny	10:03	65.5	55.5	
05-Aug-16	Sunny	10:08	68.5	57.5	
08-Aug-16	Sunny	09:43	68.0	54.5	71
08-Aug-16	Sunny	09:48	77.5	56.5	
08-Aug-16	Sunny	09:53	75.5	55.0	
08-Aug-16	Sunny	09:58	72.5	55.0	
08-Aug-16	Sunny	10:03	74.5	54.0	
08-Aug-16	Sunny	10:08	74.0	52.5	
19-Aug-16	Sunny	10:07	66.5	56.0	67
19-Aug-16	Sunny	10:12	71.0	59.0	
19-Aug-16	Sunny	10:17	64.5	55.0	
19-Aug-16	Sunny	10:22	65.0	56.0	
19-Aug-16	Sunny	10:27	66.0	56.0	
19-Aug-16	Sunny	10:32	68.5	55.5	
24-Aug-16	Sunny	09:44	72.0	54.0	71
24-Aug-16	Sunny	09:49	74.5	53.5	
24-Aug-16	Sunny	09:54	73.5	56.0	
24-Aug-16	Sunny	09:59	73.0	56.0	
24-Aug-16	Sunny	10:04	76.0	54.0	
24-Aug-16	Sunny	10:09	72.0	55.5	
30-Aug-16	Sunny	09:43	72.5	56.5	68
30-Aug-16	Sunny	09:48	67.5	55.0	
30-Aug-16	Sunny	09:53	67.5	55.5	
30-Aug-16	Sunny	09:58	66.5	55.5	
30-Aug-16	Sunny	10:03	63.5	56.0	
30-Aug-16	Sunny	10:08	64.0	55.5	

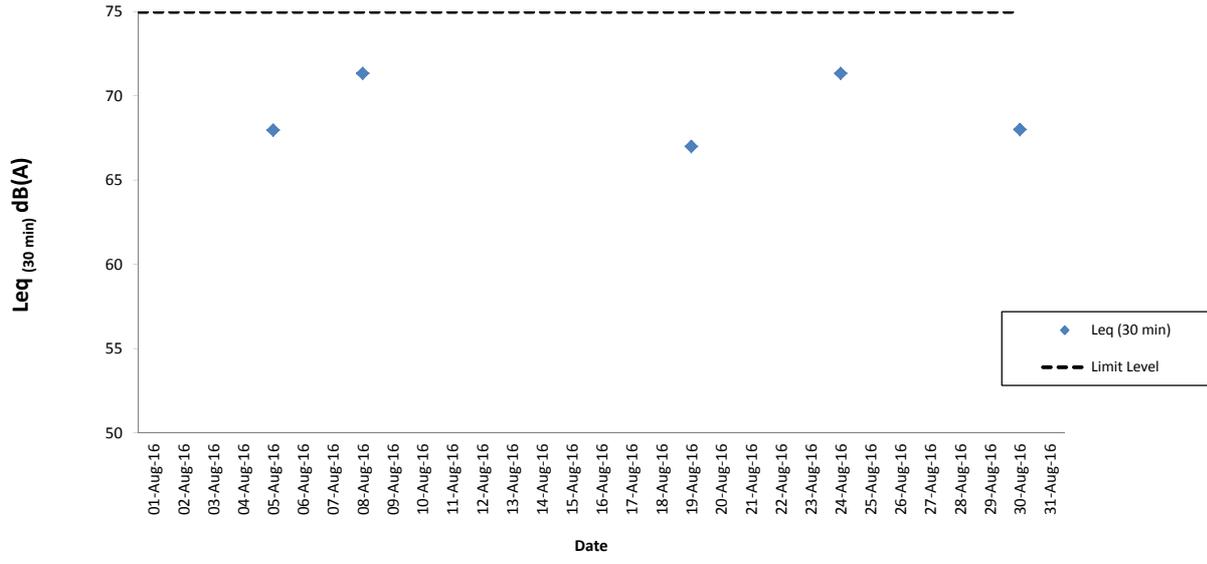
Remarks:

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





NM6 Leq (30 min) dB(A)



Water Quality Monitoring Results

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at C1 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Fine	Moderate	20:59	7.5	Surface	1.0	0.7	50	26.9	26.9	7.7	7.7	23.1	23.1	75.0	75.0	5.3	5.0	9.8	47.0	12	33	85	90	815625	804251	<0.2	<0.2	1.7	1.4	
						1.0	0.7	52	26.9	26.9	7.7	7.7	23.1	23.1	74.9	75.0	5.3	5.0	10.0	47.0	13	33	84	90			<0.2	<0.2	1.8	1.4	
					Middle	3.8	0.6	59	26.2	26.2	7.7	7.7	25.9	25.9	67.6	67.6	4.7	4.5	20.3	47.0	19	33	96	90			<0.2	<0.2	1.3	1.4	
						3.8	0.6	63	26.2	26.2	7.7	7.7	25.9	25.9	67.6	67.6	4.7	4.5	20.2	47.0	20	33	94	90			<0.2	<0.2	1.3	1.4	
					Bottom	6.5	0.5	59	25.6	25.6	7.7	7.7	27.8	27.8	64.3	64.4	4.5	4.5	112.6	47.0	68	33	90	90			<0.2	<0.2	1.2	1.4	
						6.5	0.6	61	25.6	25.6	7.7	7.7	27.8	27.8	64.4	64.4	4.5	4.5	108.8	47.0	65	33	92	90			<0.2	<0.2	1.2	1.4	
6-Aug-16	Sunny	Moderate	08:28	8.5	Surface	1.0	0.4	90	27.9	27.9	7.6	7.6	18.4	18.4	74.4	74.4	5.3	4.9	2.9	7.5	4	5	81	85	815618	804250	<0.2	<0.2	3.1	2.4	
						1.0	0.4	98	27.9	27.9	7.6	7.6	18.4	18.4	74.3	74.4	5.3	4.9	3.0	7.5	3	5	81	85			<0.2	<0.2	2.9	2.4	
					Middle	4.3	0.6	63	27.0	27.0	7.7	7.7	24.2	24.2	65.5	65.4	4.6	4.5	4.2	7.5	5	5	84	85			<0.2	<0.2	2.5	2.4	
						4.3	0.6	64	27.0	27.0	7.7	7.7	24.2	24.2	65.2	65.4	4.5	4.5	4.5	7.5	4	5	82	85			<0.2	<0.2	2.7	2.4	
					Bottom	7.5	0.5	55	25.8	25.8	7.7	7.7	28.0	28.0	58.7	58.9	4.1	4.1	15.4	7.5	8	5	94	85			<0.2	<0.2	1.5	2.4	
						7.5	0.6	57	25.8	25.8	7.7	7.7	28.0	28.0	59.0	58.9	4.1	4.1	15.0	7.5	8	5	90	85			<0.2	<0.2	1.4	2.4	
9-Aug-16	Fine	Moderate	10:48	8.4	Surface	1.0	0.5	83	29.7	29.6	7.9	7.9	16.4	16.4	93.9	93.3	6.5	5.5	1.4	16.8	4	15	80	86	815606	804249	<0.2	<0.2	2.7	1.4	
						1.0	0.5	87	29.5	29.6	7.9	7.9	16.4	16.4	92.7	93.3	6.5	5.5	1.5	16.8	2	15	78	86			<0.2	<0.2	2.7	1.4	
					Middle	4.2	0.6	59	25.6	25.6	7.7	7.7	29.3	29.4	63.2	64.5	4.4	4.5	10.3	16.8	7	15	86	86			<0.2	<0.2	1.0	1.4	
						4.2	0.6	61	25.6	25.6	7.7	7.7	29.4	29.4	65.8	64.5	4.6	4.5	11.6	16.8	8	15	87	86			<0.2	<0.2	1.1	1.4	
					Bottom	7.4	0.5	58	25.0	25.0	7.7	7.8	31.2	31.2	62.1	64.1	4.3	4.5	38.7	16.8	35	15	93	86			<0.2	<0.2	0.5	1.4	
						7.4	0.6	58	25.0	25.0	7.8	7.8	31.2	31.2	66.1	64.1	4.6	4.5	37.3	16.8	35	15	94	86			<0.2	<0.2	0.6	1.4	
11-Aug-16	Cloudy	Moderate	13:03	8.2	Surface	1.0	0.3	167	28.7	28.7	7.7	7.7	13.6	13.6	83.9	84.0	6.0	5.5	0.9	3.7	3	5	73	78	815614	804252	<0.2	<0.2	4.6	3.1	
						1.0	0.3	172	28.7	28.7	7.7	7.7	13.6	13.6	84.0	84.0	6.0	5.5	1.0	3.7	3	5	73	78			<0.2	<0.2	4.4	3.1	
					Middle	4.1	0.3	151	27.8	27.8	7.8	7.8	21.0	21.1	71.9	71.9	5.0	5.0	1.0	3.7	3	5	74	78			<0.2	<0.2	3.4	3.1	
						4.1	0.3	158	27.8	27.8	7.8	7.8	21.1	21.1	71.8	71.9	5.0	5.0	1.0	3.7	4	5	73	78			<0.2	<0.2	3.5	3.1	
					Bottom	7.2	0.4	141	25.1	25.1	7.8	7.8	31.0	31.0	49.5	49.8	3.4	3.5	9.0	3.7	7	5	86	78			<0.2	<0.2	1.1	3.1	
						7.2	0.4	149	25.1	25.1	7.8	7.8	31.0	31.0	50.0	49.8	3.5	3.5	9.1	3.7	8	5	87	78			<0.2	<0.2	1.4	3.1	
13-Aug-16	Cloudy	Moderate	16:22	7.9	Surface	1.0	0.4	94	28.9	28.9	7.6	7.6	14.9	14.9	65.4	65.4	4.6	4.0	2.5	6.0	<2	5	75	89	815626	804243	<0.2	<0.2	3.2	1.6	
						1.0	0.4	96	28.9	28.9	7.6	7.6	14.9	14.9	65.4	65.4	4.6	4.0	2.6	6.0	<2	5	77	89			<0.2	<0.2	3.6	1.6	
					Middle	4.0	0.4	101	25.4	25.4	7.8	7.8	29.4	29.4	48.8	48.8	3.4	3.2	4.3	6.0	7	5	97	89			<0.2	<0.2	0.7	1.6	
						4.0	0.4	104	25.4	25.4	7.8	7.8	29.3	29.4	48.8	48.8	3.4	3.2	4.2	6.0	6	5	93	89			<0.2	<0.2	0.8	1.6	
					Bottom	6.9	0.4	112	24.6	24.6	7.8	7.8	31.7	31.7	46.1	46.3	3.2	3.2	11.2	6.0	6	5	96	89			<0.2	<0.2	0.6	1.6	
						6.9	0.4	118	24.6	24.6	7.8	7.8	31.7	31.7	46.5	46.3	3.2	3.2	11.2	6.0	5	5	96	89			<0.2	<0.2	0.6	1.6	
16-Aug-16	Cloudy	Moderate	18:17	8.1	Surface	1.0	0.4	84	27.0	27.0	7.8	7.8	23.5	23.5	65.4	65.3	4.6	4.3	4.5	23.8	7	22	85	91	815614	804249	<0.2	<0.2	1.9	1.4	
						1.0	0.5	89	26.9	26.9	7.8	7.8	23.5	23.5	65.1	65.3	4.5	4.3	4.7	23.8	6	22	84	91			<0.2	<0.2	1.6	1.4	
					Middle	4.1	0.5	61	25.8	26.0	7.8	7.8	27.4	27.3	57.1	56.9	4.0	3.9	9.7	23.8	9	22	86	91			<0.2	<0.2	1.4	1.4	
						4.1	0.5	62	26.2	26.0	7.8	7.8	27.1	27.3	56.7	56.9	3.9	3.9	9.7	23.8	8	22	87	91			<0.2	<0.2	1.3	1.4	
					Bottom	7.1	0.4	71	25.7	25.6	7.8	7.8	29.0	29.1	53.0	53.1	3.7	3.7	56.7	23.8	50	22	102	91			<0.2	<0.2	1.2	1.4	
						7.1	0.4	71	25.5	25.6	7.8	7.8	29.1	29.1	53.1	53.1	3.7	3.7	57.2	23.8	49	22	99	91			<0.2	<0.2	1.0	1.4	
18-Aug-16	Rough	Cloudy	19:59	6.6	Surface	1.0	0.4	124	26.5	26.5	7.8	7.8	26.6	26.6	72.1	72.1	5.0	5.0	13.7	19.3	20	20	94	91	815626	804259	<0.2	<0.2	1.5	1.5	
						1.0	0.4	133	26.5	26.5	7.8	7.8	26.6	26.6	72.1	72.1	5.0	5.0	13.7	19.3	20	20	94	91			<0.2	<0.2	1.6	1.5	
					Middle	3.3	0.4	92	26.5	26.5	7.8	7.8	26.7	26.7	70.4	70.4	4.9	4.9	14.8	19.3	19	20	85	91			<0.2	<0.2	1.4	1.5	
						3.3	0.5	100	26.5	26.5	7.8	7.8	26.7	26.7	70.4	70.4	4.9	4.9	15.0	19.3	20	20	87	91			<0.2	<0.2	1.6	1.5	
					Bottom	5.6	0.4	105	26.4	26.4	7.8	7.8	27.1	27.1	69.8	69.8	4.8	4.8	29.5	19.3	20	20	94	91			<0.2	<0.2	1.4	1.5	
						5.6	0.5	106	26.4	26.4	7.8	7.8	27.1	27.1	69.8	69.8	4.8	4.8	29.2	19.3	21	20	93	91			<0.2	<0.2	1.6	1.5	
20-Aug-16	Sunny	Calm	07:42	8.8	Surface	1.0	0.7	41	27.4	27.4	7.7	7.7	22.7	22.7	73.3	73.3	5.1	5.1	8.1	34.8	14	23	89	92	815601	804233	<0.2	<0.2	2.9	2.4	
						1.0	0.7	42	27.4	27.4	7.7	7.7	22.7	22.7	73.3	73.3	5.1	5.1	8.3	34.8	15	23	86	92			<0.2	<0.2	2.6	2.4	
					Middle	4.4	0.8	42	26.9	26.9	7.8	7.8	27.3	27.3	73.8	73.8	5.0	5.1	28.3	34.8	27	23	94	92			<0.2	<0.2	2.0	2.4	
						4.4	0.9	44	26.9	26.9	7.8	7.8	27.3	27.3	73.8	73.8	5.0	5.1	28.4	34.8	27	23	93	92			<0.2	<0.2	2.3	2.4	
					Bottom	7.8	0.8	48	26.8	26.8	7.8	7.8	27.9	27.9	74.0	74.2	5.1	5.1	68.9	34.8	27	23	94	92			<0.2	<0.2	2.1	2.4	
						7.8	0.8	51	26.8	26.8	7.8	7.8	27.9	27.9	74.3	74.2	5.1	5.1	66.6	34.8	27	23	94	92			<0.2	<0.2	2.3	2.4	
23-Aug-16	Sunny	Moderate	09:55	8.4	Surface	1.0	0.5	89	28.7	28.7	7.7	7.7	19.5																		

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at C2 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	19:10	10.5	Surface	1.0	0.8	180	26.7	26.7	7.5	7.5	16.5	16.5	69.5	69.5	5.1	4.9	10.3	17.1	14	15	86	89	825683	806960	<0.2	4.9	<0.2	4.2
						1.0	0.9	192	26.7	26.7	7.5	7.5	16.5	16.5	69.5	69.5	5.1	4.9	10.3	17.1	12	15	84	89			<0.2	5.0	<0.2	4.8
					Middle	5.3	0.5	191	25.1	25.1	7.6	7.6	25.0	25.0	65.3	65.3	4.7	4.7	18.7	17.1	16	4	89	89			<0.2	4.6	<0.2	2.9
						5.3	0.5	201	25.1	25.1	7.6	7.6	25.0	25.0	65.3	65.3	4.7	4.7	18.7	17.1	16	4	90	89			<0.2	4.6	<0.2	2.7
					Bottom	9.5	0.3	238	24.9	24.9	7.6	7.6	25.9	25.9	65.8	65.8	4.7	4.7	22.4	4.7	17	4	92	89			<0.2	2.9	<0.2	2.7
						9.5	0.3	248	24.9	24.9	7.6	7.6	25.9	25.9	65.9	65.9	4.7	4.7	22.3	4.7	17	4	93	89			<0.2	2.7	<0.2	2.7
6-Aug-16	Sunny	Moderate	09:57	12.8	Surface	1.0	0.4	150	26.8	26.9	7.4	7.4	16.8	16.9	63.0	63.0	4.6	4.5	4.4	11.7	3	4	83	88	825686	806959	<0.2	4.1	<0.2	3.4
						1.0	0.4	163	26.9	26.9	7.4	7.4	17.0	16.9	63.0	63.0	4.6	4.5	4.4	11.7	3	4	82	88			<0.2	4.1	<0.2	3.9
					Middle	6.4	0.4	202	25.6	25.6	7.5	7.5	23.6	23.6	60.7	60.8	4.3	4.3	9.6	3.1	4	4	89	89			<0.2	3.9	<0.2	4.2
						6.4	0.5	209	25.6	25.6	7.5	7.5	23.6	23.6	60.8	60.8	4.3	4.3	9.7	3.1	3	4	89	89			<0.2	4.2	<0.2	2.0
					Bottom	11.8	0.5	265	25.3	25.3	7.5	7.5	24.4	24.4	62.1	62.1	4.4	4.4	20.9	4.4	5	4	92	89			<0.2	2.0	<0.2	1.9
						11.8	0.5	291	25.3	25.3	7.5	7.5	24.4	24.4	62.1	62.1	4.4	4.4	20.9	4.4	4	4	93	89			<0.2	1.9	<0.2	1.9
9-Aug-16	Fine	Moderate	11:28	12.7	Surface	1.0	0.3	207	26.9	26.9	7.7	7.7	21.3	21.3	71.4	71.4	5.1	4.8	3.7	3.1	4	4	83	89	825698	806962	<0.2	4.4	<0.2	3.0
						1.0	0.3	211	26.9	26.9	7.7	7.7	21.3	21.3	71.3	71.4	5.0	4.8	3.8	3.1	4	4	86	89			<0.2	4.2	<0.2	2.4
					Middle	6.4	0.3	167	26.2	26.2	7.6	7.6	23.3	23.3	65.1	65.1	4.6	4.6	1.5	4.6	4	4	90	89			<0.2	2.4	<0.2	2.3
						6.4	0.3	173	26.2	26.2	7.6	7.6	23.3	23.3	65.1	65.1	4.6	4.6	1.5	4.6	4	4	89	89			<0.2	2.3	<0.2	2.4
					Bottom	11.7	0.4	227	25.8	25.8	7.6	7.6	25.3	25.3	64.0	64.1	4.5	4.5	4.0	4.5	3	4	92	89			<0.2	2.4	<0.2	2.2
						11.7	0.4	244	25.8	25.8	7.6	7.6	25.3	25.3	64.2	64.1	4.5	4.5	4.0	4.5	3	4	92	89			<0.2	2.2	<0.2	2.2
11-Aug-16	Fine	Moderate	14:45	12.4	Surface	1.0	0.1	148	26.4	26.4	7.7	7.7	20.2	20.2	71.4	71.4	5.1	4.6	0.9	7.6	<2	2	86	90	825686	806927	<0.2	2.8	<0.2	1.9
						1.0	0.1	155	26.4	26.4	7.7	7.7	20.2	20.2	71.4	71.4	5.1	4.6	0.9	7.6	<2	2	89	90			<0.2	2.8	<0.2	1.5
					Middle	6.2	0.2	217	25.3	25.3	7.7	7.7	26.6	26.7	58.3	58.1	4.1	4.1	1.9	4.1	2	2	90	91			<0.2	1.9	<0.2	1.2
						6.2	0.2	228	25.3	25.3	7.7	7.7	26.7	26.7	57.9	58.1	4.1	4.1	2.0	4.1	2	2	91	91			<0.2	1.9	<0.2	1.2
					Bottom	11.4	0.1	204	24.3	24.3	7.7	7.7	29.1	29.1	45.6	45.9	3.2	3.3	20.2	3.3	3	3	92	92			<0.2	1.2	<0.2	1.2
						11.4	0.1	205	24.3	24.3	7.7	7.7	29.1	29.1	46.2	45.9	3.3	3.3	19.7	3.3	3	3	92	92			<0.2	1.2	<0.2	1.2
13-Aug-16	Fine	Moderate	15:05	10.8	Surface	1.0	0.4	179	26.4	26.4	7.7	7.7	18.7	18.8	67.7	67.7	4.9	4.3	1.8	1.8	3	3	80	84	825662	806955	<0.2	3.6	<0.2	2.3
						1.0	0.5	186	26.4	26.4	7.7	7.7	18.8	18.8	67.7	67.7	4.9	4.3	1.8	1.8	2	3	77	84			<0.2	3.3	<0.2	2.1
					Middle	5.4	0.2	217	24.6	24.6	7.7	7.7	27.4	27.4	51.0	51.0	3.6	3.6	1.6	3.6	2	3	82	88			<0.2	2.0	<0.2	1.3
						5.4	0.2	234	24.6	24.6	7.7	7.7	27.4	27.4	51.0	51.0	3.6	3.6	1.6	3.6	3	3	84	88			<0.2	2.1	<0.2	1.4
					Bottom	9.8	0.4	264	24.1	24.1	7.8	7.8	29.2	29.2	52.4	52.9	3.7	3.8	1.9	3.8	3	3	88	90			<0.2	1.3	<0.2	1.4
						9.8	0.4	266	24.1	24.1	7.8	7.8	29.2	29.2	53.3	52.9	3.8	3.8	1.9	3.8	3	3	90	90			<0.2	1.4	<0.2	1.4
16-Aug-16	Cloudy	Moderate	17:08	10.8	Surface	1.0	0.4	182	25.5	25.5	7.7	7.7	20.0	20.0	55.9	55.9	4.1	4.0	3.3	5.2	4	5	86	89	825675	806934	<0.2	2.2	<0.2	1.9
						1.0	0.4	199	25.5	25.5	7.7	7.7	20.0	20.0	55.9	55.9	4.1	4.0	3.3	5.2	4	5	84	89			<0.2	2.6	<0.2	1.7
					Middle	5.4	0.2	204	24.3	24.3	7.7	7.7	26.4	26.4	53.7	53.8	3.9	3.9	5.7	3.9	5	5	89	90			<0.2	1.7	<0.2	1.7
						5.4	0.2	218	24.3	24.3	7.7	7.7	26.4	26.4	53.8	53.8	3.9	3.9	5.6	3.9	5	5	90	90			<0.2	1.7	<0.2	1.5
					Bottom	9.8	0.4	256	24.1	24.1	7.7	7.7	27.6	27.6	59.5	59.7	4.3	4.3	6.6	4.3	6	6	92	92			<0.2	1.5	<0.2	1.4
						9.8	0.4	268	24.1	24.1	7.7	7.7	27.6	27.6	59.8	59.7	4.3	4.3	6.7	4.3	6	6	92	92			<0.2	1.4	<0.2	1.4
18-Aug-16	Cloudy	Rough	18:11	10.2	Surface	1.0	0.6	185	25.7	25.7	7.7	7.7	19.9	19.9	63.3	63.2	4.6	4.5	7.0	9.3	9	10	81	88	825667	806958	<0.2	3.1	<0.2	2.8
						1.0	0.7	186	25.7	25.7	7.7	7.7	19.9	19.9	63.1	63.2	4.6	4.5	7.0	9.3	9	10	85	89			<0.2	3.1	<0.2	3.1
					Middle	5.1	0.5	208	25.3	25.3	7.7	7.7	21.3	21.3	60.3	60.3	4.4	4.4	10.1	4.4	10	10	89	91			<0.2	2.8	<0.2	2.3
						5.1	0.5	217	25.3	25.3	7.7	7.7	21.3	21.3	60.3	60.3	4.4	4.4	10.1	4.4	10	10	91	91			<0.2	3.1	<0.2	2.3
					Bottom	9.2	0.4	235	24.7	24.7	7.7	7.7	25.5	25.5	62.6	62.6	4.5	4.5	10.9	4.5	11	12	92	92			<0.2	2.3	<0.2	2.2
						9.2	0.4	248	24.7	24.7	7.7	7.7	25.5	25.5	62.6	62.6	4.5	4.5	10.9	4.5	12	12	92	92			<0.2	2.2	<0.2	2.2
20-Aug-16	Moderate	Fine	08:26	13.2	Surface	1.0	0.5	112	26.3	26.3	7.5	7.5	18.4	18.4	64.5	64.6	4.7	4.7	4.3	19.2	3	4	87	91	825700	806959	<0.2	3.4	<0.2	3.1
						1.0	0.6	114	26.3	26.3	7.5	7.5	18.4	18.4	64.6	64.6	4.7	4.7	4.3	19.2	2	4	88	91			<0.2	3.2	<0.2	2.9
					Middle	6.6	0.6	193	25.7	25.7	7.6	7.6	22.3	22.3	65.0	65.0	4.7	4.7	9.2	4.7	2	3	90	92			<0.2	2.7	<0.2	3.1
						6.6	0.6	197	25.7	25.7	7.6	7.6	22.3	22.3	65.0	65.0	4.7	4.7	9.5	4.7	3	3	92	93			<0.2	2.9	<0.2	3.1
					Bottom	12.2	0.5	245	25.3	25.3	7.7	7.7	24.3	24.3	66.2	66.2	4.7	4.7	43.6	4.7	5	6	93	94			<0.2	3.1	<0.2	3.1
						12.2	0.5	269	25.3	25.3	7.7	7.7	24.3	24.3	66.2	66.2	4.7	4.7	44.1	4.7	6	6	94	94			<0.2	3.1	<0.2	3.1
23-Aug-16	Sunny	Moderate	11:04	12.6	Surface	1.0	0.3	270	28.0	28.0	7.6	7.6	13.9	13.9	68.9	68.9	5.0	4.9	5.3	13.1	2	2	83	89	825699	806940	<0.2	3.1	<0.2	2.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at C3 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	21:36	12.3	Surface	1.0	0.6	254	25.0	25.0	7.7	7.7	24.4	24.4	71.3	71.3	5.1	4.8	5.6	10.2	5	9	86	89	822097	817810	<0.2	<0.2	1.3	1.1			
						1.0	0.6	270	25.0	7.7	7.7	24.4	24.4	71.3	71.3	5.1	4.8	5.6	10.2	7	9	83	89	<0.2			<0.2	1.4	1.1				
					6.2	0.6	256	23.7	23.7	7.7	7.7	28.6	28.6	61.4	61.4	4.4	4.4	11.4	10.2	9	9	90	89	<0.2			<0.2	0.9	1.1				
					6.2	0.6	259	23.7	23.7	7.7	7.7	28.6	28.6	61.5	61.5	4.4	4.4	11.3	10.2	11	9	89	89	<0.2			<0.2	0.9	1.1				
					11.3	0.5	265	23.7	23.7	7.7	7.7	28.7	28.7	63.2	63.2	4.5	4.5	13.7	10.2	12	9	92	89	<0.2			<0.2	1.2	1.1				
					11.3	0.5	277	23.7	23.7	7.7	7.7	28.7	28.7	63.2	63.2	4.5	4.5	13.7	10.2	12	9	92	89	<0.2			<0.2	1.0	1.1				
6-Aug-16	Cloudy	Calm	07:33	11.8	Surface	1.0	0.5	265	26.1	26.1	7.5	7.5	22.0	22.0	65.0	65.0	4.6	4.5	3.4	6.2	4	4	85	89	822098	817798	<0.2	<0.2	1.5	1.5			
						1.0	0.5	274	26.1	26.1	7.5	7.5	21.9	22.0	64.9	65.0	4.6	4.5	3.3	6.2	3	4	84	89			<0.2	<0.2	1.5	1.5			
					5.9	0.5	257	25.1	25.1	7.6	7.6	25.8	25.8	62.3	62.3	4.4	4.4	4.3	6.2	4	4	90	89	<0.2			<0.2	1.5	1.5				
					5.9	0.5	262	25.1	25.1	7.6	7.6	25.8	25.8	62.3	62.3	4.4	4.4	4.4	6.2	5	4	89	89	<0.2			<0.2	1.5	1.5				
					10.8	0.5	262	24.6	24.6	7.6	7.6	27.6	27.6	61.7	61.7	4.4	4.4	10.8	6.2	5	4	92	89	<0.2			<0.2	1.5	1.5				
					10.8	0.5	263	24.6	24.6	7.6	7.6	27.6	27.6	61.7	61.7	4.4	4.4	10.8	6.2	5	4	93	89	<0.2			<0.2	1.4	1.5				
9-Aug-16	Fine	Moderate	09:30	12.2	Surface	1.0	0.4	287	27.5	27.5	7.8	7.8	19.4	19.4	89.3	89.3	6.3	5.6	1.8	5.0	3	3	82	89	822094	817784	<0.2	<0.2	2.7	2.3			
						1.0	0.4	300	27.5	27.5	7.8	7.8	19.4	19.4	89.2	89.3	6.3	5.6	1.9	5.0	3	3	84	89			<0.2	<0.2	2.7	2.3			
					6.1	0.5	268	25.7	25.7	7.7	7.7	25.1	25.2	68.3	68.3	4.8	4.8	2.3	5.0	2	3	90	89	<0.2			<0.2	2.3	2.3				
					6.1	0.5	285	25.7	25.7	7.7	7.7	25.2	25.2	68.3	68.3	4.8	4.8	2.4	5.0	3	3	89	89	<0.2			<0.2	2.5	2.3				
					11.2	0.2	261	24.9	24.9	7.7	7.7	28.5	28.5	68.3	68.3	4.8	4.8	10.9	5.0	3	3	93	89	<0.2			<0.2	1.7	1.7				
					11.2	0.3	278	24.9	24.9	7.7	7.7	28.5	28.5	68.3	68.3	4.8	4.8	10.9	5.0	2	3	93	89	<0.2			<0.2	1.7	1.7				
11-Aug-16	Rainy	Moderate	12:21	11.0	Surface	1.0	0.3	171	25.7	25.7	7.8	7.8	22.4	22.5	81.5	81.3	5.9	5.4	0.7	1.1	<2	3	87	91	822098	817810	<0.2	<0.2	1.8	1.4			
						1.0	0.4	180	25.7	25.7	7.8	7.8	22.5	22.5	81.1	81.3	5.8	5.4	0.7	1.1	<2	3	87	91			<0.2	<0.2	2.1	1.4			
					5.5	0.3	167	25.4	25.4	7.7	7.8	25.6	25.6	70.5	70.6	5.0	5.0	0.7	1.1	2	3	90	91	<0.2			<0.2	0.9	1.4				
					5.5	0.4	171	25.4	25.4	7.8	7.8	25.5	25.6	70.7	70.7	5.0	5.0	0.7	1.1	3	3	92	91	<0.2			<0.2	1.3	1.4				
					10.0	0.3	171	23.8	23.8	7.8	7.8	30.3	30.3	60.7	61.2	4.3	4.4	1.8	4.4	3	4	95	91	<0.2			<0.2	1.4	1.4				
					10.0	0.3	183	23.8	23.8	7.8	7.8	30.3	30.3	61.7	61.2	4.4	4.4	1.7	4.4	3	4	97	91	<0.2			<0.2	0.6	1.4				
13-Aug-16	Fine	Moderate	17:30	12.6	Surface	1.0	0.2	224	26.2	26.2	7.9	7.9	22.2	22.2	86.1	86.0	6.1	4.9	0.8	1.8	<2	<2	87	87	822093	817801	<0.2	<0.2	2.4	1.8			
						1.0	0.2	234	26.2	26.2	7.9	7.9	22.2	22.2	85.8	86.0	6.1	4.9	0.9	1.8	<2	<2	84	87			<0.2	<0.2	2.5	1.8			
					6.3	0.3	239	23.3	23.4	7.8	7.8	31.5	31.5	50.4	50.6	3.6	3.9	2.2	1.8	<2	<2	87	87	<0.2			<0.2	2.1	1.8				
					6.3	0.3	246	23.4	23.4	7.8	7.8	31.5	31.5	50.7	50.6	3.6	3.9	2.0	1.8	<2	<2	84	87	<0.2			<0.2	2.1	1.8				
					11.6	0.3	246	23.1	23.1	7.8	7.8	32.3	32.3	54.6	55.1	3.9	3.9	2.3	4.4	3	3	90	87	<0.2			<0.2	0.9	1.8				
					11.6	0.3	261	23.1	23.1	7.8	7.8	32.3	32.3	55.5	55.1	3.9	3.9	2.5	4.4	3	3	90	87	<0.2			<0.2	1.0	1.8				
16-Aug-16	Cloudy	Moderate	19:19	10.9	Surface	1.0	0.5	248	24.0	24.0	7.9	7.9	27.5	27.5	66.6	66.6	4.8	4.6	3.5	7.6	3	6	86	90	822100	817809	<0.2	<0.2	1.1	0.8			
						1.0	0.5	266	24.0	24.0	7.9	7.9	27.5	27.5	66.5	66.6	4.8	4.6	3.5	7.6	3	6	85	90			<0.2	<0.2	1.1	0.8			
					5.5	0.4	261	23.3	23.3	7.9	7.9	29.9	29.9	61.8	61.9	4.4	4.4	8.0	7.6	8	6	92	90	<0.2			<0.2	0.5	0.8				
					5.5	0.5	282	23.3	23.3	7.9	7.9	29.9	29.9	61.9	61.9	4.4	4.4	8.1	7.6	8	6	90	90	<0.2			<0.2	0.5	0.8				
					9.9	0.5	239	23.3	23.3	7.9	7.9	29.9	29.9	65.4	65.5	4.7	4.7	11.1	7.6	7	6	94	90	<0.2			<0.2	0.8	0.8				
					9.9	0.5	248	23.3	23.3	7.9	7.9	29.9	29.9	65.6	65.5	4.7	4.7	11.2	7.6	8	6	93	90	<0.2			<0.2	0.7	0.8				
18-Aug-16	Cloudy	Rough	20:24	12.7	Surface	1.0	0.4	272	24.6	24.6	7.9	7.9	28.1	28.1	69.5	69.5	4.9	4.8	6.4	14.1	7	13	86	90	822119	817801	<0.2	<0.2	1.0	1.0			
						1.0	0.5	278	24.6	24.6	7.9	7.9	28.1	28.1	69.4	69.5	4.9	4.8	6.4	14.1	7	13	84	90			<0.2	<0.2	1.1	1.0			
					6.4	0.5	262	24.2	24.2	7.8	7.8	29.2	29.2	64.9	64.9	4.6	4.6	14.3	14.1	8	13	91	90	<0.2			<0.2	1.0	1.0				
					6.4	0.5	283	24.2	24.2	7.8	7.8	29.2	29.2	64.9	64.9	4.6	4.6	14.5	14.1	8	13	90	90	<0.2			<0.2	1.1	1.0				
					11.7	0.4	266	24.2	24.2	7.8	7.8	29.2	29.2	67.6	67.7	4.8	4.8	21.4	14.1	23	13	93	90	<0.2			<0.2	1.0	1.0				
					11.7	0.4	289	24.2	24.2	7.8	7.8	29.2	29.2	67.7	67.7	4.8	4.8	21.7	14.1	25	13	93	90	<0.2			<0.2	1.0	1.0				
20-Aug-16	Moderate	Calm	06:36	12.7	Surface	1.0	0.7	269	25.5	25.5	7.8	7.8	25.0	25.0	70.7	70.7	5.0	5.0	6.2	13.0	4	3	83	89	822115	817783	<0.2	<0.2	2.3	2.0			
						1.0	0.7	292	25.4	25.4	7.8	7.8	25.0	25.0	70.7	70.7	5.0	5.0	6.3	13.0	3	3	86	89			<0.2	<0.2	2.5	2.0			
					6.4	0.7	271	25.1	25.1	7.8	7.8	26.6	26.6	69.3	69.3	4.9	4.9	11.2	13.0	4	3	90	89	<0.2			<0.2	1.6	2.0				
					6.4	0.7	283	25.1	25.1	7.8	7.8	26.6	26.6	69.3	69.3	4.9	4.9	11.5	13.0	2	3	89	89	<0.2			<0.2	2.0	2.0				
					11.7	0.5	259	24.8	24.8	7.8	7.8	27.9	27.9	70.1	70.2	5.0	5.0	21.6	13.0	4	3	93	89	<0.2			<0.2	1.9	2.0				
					11.7	0.5	270	24.8	24.8	7.8	7.8	27.9	27.9	70.2	70.2	5.0	5.0	21.1	13.0	3	3	93	89	<0.2			<0.2	1.7	2.0				
23-Aug-16	Sunny	Calm	09:07	11.5	Surface	1.0	0.6	270	26.6	26.6	7.8	7.8	22.1	22.1	73.9	73.4	5.2	5.1	3.2	4.5	<2	4	84	89	822119	817793	<						

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM1 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Fine	Moderate	20:35	6.7	Surface	1.0	0.6	52	27.2	7.7	7.7	21.6	21.5	74.4	74.4	5.2	5.2	9.7	11	87	84	81	84	84	818348	806457	<0.2	2.2	2.1		
						1.0	0.6	55	27.3	7.7	7.7	21.5	21.5	74.3	74.3	5.2	5.2	9.7	12	83	83	84	84	84	84	84	818348	806457	<0.2	2.3	2.1
					Middle	3.4	0.7	108	26.7	7.7	7.7	24.0	24.0	72.4	72.4	5.1	5.1	23.7	17	84	16	81	16	85	85	85	818348	806457	<0.2	2.0	2.1
						3.4	0.7	116	26.7	7.7	7.7	24.0	24.0	72.4	72.4	5.1	5.1	24.4	16	81	19	85	19	83	19	83	818348	806457	<0.2	1.9	2.1
					Bottom	5.7	0.7	205	26.2	7.7	7.7	25.9	25.8	72.4	72.7	5.1	5.1	47.7	19	85	19	83	19	83	19	83	818348	806457	<0.2	2.0	2.1
						5.7	0.7	210	26.3	7.7	7.7	25.8	25.8	72.9	72.7	5.1	5.1	44.6	19	83	19	83	19	83	19	83	818348	806457	<0.2	2.1	2.1
6-Aug-16	Sunny	Moderate	08:52	7.6	Surface	1.0	0.5	128	27.2	7.6	7.6	23.2	23.2	64.1	64.1	4.5	4.5	2.3	2	85	87	85	84	87	818348	806441	<0.2	2.2	1.9		
						1.0	0.5	131	27.3	7.6	7.6	23.2	23.2	64.1	64.1	4.5	4.5	2.4	2	83	2	83	3	84	3	83	818348	806441	<0.2	2.8	1.9
					Middle	3.8	0.6	128	27.1	7.7	7.7	24.2	24.2	64.1	64.1	4.5	4.5	4.1	3	84	3	84	3	83	3	83	818348	806441	<0.2	1.8	1.9
						3.8	0.6	136	27.1	7.7	7.7	24.2	24.2	64.1	64.1	4.5	4.5	4.5	3	83	3	83	3	83	3	83	818348	806441	<0.2	1.8	1.9
					Bottom	6.6	0.6	212	26.4	7.7	7.7	26.5	26.5	62.5	62.7	4.3	4.4	35.0	28	93	28	93	28	93	28	92	818348	806441	<0.2	1.3	1.9
						6.6	0.7	216	26.4	7.7	7.7	26.4	26.4	62.9	62.7	4.4	4.4	32.2	28	92	28	92	28	92	28	92	818348	806441	<0.2	1.2	1.9
9-Aug-16	Fine	Moderate	11:08	7.3	Surface	1.0	0.5	90	29.2	7.9	7.9	16.8	16.8	94.5	94.0	6.6	6.4	1.4	3	73	79	73	76	79	818336	806457	<0.2	3.1	2.7		
						1.0	0.5	98	29.5	7.9	7.9	16.8	16.8	93.4	94.0	6.5	6.4	1.6	3	74	3	74	3	80	3	76	818336	806457	<0.2	2.8	2.7
					Middle	3.7	0.4	242	29.3	7.8	7.8	17.9	17.9	89.0	88.5	6.2	6.1	3.0	3	80	4	76	4	76	4	76	818336	806457	<0.2	2.9	2.7
						3.7	0.4	260	29.4	7.8	7.8	17.9	17.9	87.9	88.5	6.1	6.1	3.3	4	76	4	76	4	76	4	76	818336	806457	<0.2	2.9	2.7
					Bottom	6.3	0.3	274	27.3	7.8	7.8	25.0	24.5	81.2	82.2	5.6	5.7	9.5	7	87	7	87	7	85	7	85	818336	806457	<0.2	2.4	2.7
						6.3	0.3	274	27.8	7.8	7.8	23.9	24.5	83.1	82.2	5.7	5.7	8.7	8	85	8	85	8	85	8	85	818336	806457	<0.2	2.3	2.7
11-Aug-16	Cloudy	Moderate	13:27	7.0	Surface	1.0	0.3	167	27.4	7.8	7.8	20.4	20.3	78.4	78.2	5.5	4.9	1.0	4	81	88	81	81	88	818363	806466	<0.2	2.7	2.0		
						1.0	0.3	182	27.9	7.8	7.8	20.2	20.3	77.9	78.2	5.5	4.9	1.0	4	81	4	81	4	81	4	81	818363	806466	<0.2	2.7	2.0
					Middle	3.5	0.3	223	27.0	7.8	7.8	24.4	24.5	61.5	61.7	4.3	4.3	1.2	3	92	3	92	3	91	3	91	818363	806466	<0.2	1.5	2.0
						3.5	0.3	241	26.7	7.8	7.8	24.6	24.5	61.8	61.7	4.3	4.3	1.3	3	91	3	91	3	90	3	90	818363	806466	<0.2	2.1	2.0
					Bottom	6.0	0.4	141	25.3	7.8	7.8	30.1	30.2	59.9	60.3	4.2	4.2	3.4	3	90	5	91	5	91	5	91	818363	806466	<0.2	1.6	2.0
						6.0	0.4	148	24.9	7.8	7.8	30.3	30.2	60.6	60.3	4.2	4.2	3.4	3	91	5	91	5	91	5	91	818363	806466	<0.2	1.6	2.0
13-Aug-16	Cloudy	Moderate	15:57	6.6	Surface	1.0	0.6	191	28.9	7.6	7.6	16.2	16.3	74.4	74.3	5.2	5.2	2.6	3	83	86	83	80	86	818336	806454	<0.2	2.7	2.0		
						1.0	0.6	191	28.9	7.6	7.6	16.3	16.3	74.1	74.3	5.2	5.2	2.8	3	80	3	80	3	80	3	80	818336	806454	<0.2	3.0	2.0
					Middle	3.3	0.5	272	27.6	7.8	7.8	21.6	21.6	74.0	74.0	5.2	5.2	8.8	9	75	9	75	9	75	9	75	818336	806454	<0.2	2.2	2.0
						3.3	0.5	276	27.6	7.8	7.8	21.5	21.6	73.9	74.0	5.2	5.2	8.9	9	80	9	80	9	80	9	80	818336	806454	<0.2	2.2	2.0
					Bottom	5.6	0.3	230	25.5	7.8	7.8	29.0	29.0	47.6	47.6	3.3	3.3	7.7	9	97	10	100	10	100	10	100	818336	806454	<0.2	0.8	2.0
						5.6	0.3	237	25.5	7.8	7.8	29.0	29.0	47.6	47.6	3.3	3.3	7.5	10	100	10	100	10	100	10	100	818336	806454	<0.2	0.8	2.0
16-Aug-16	Rainy	Moderate	17:52	6.7	Surface	1.0	0.4	174	27.2	7.8	7.8	22.7	22.7	64.8	64.9	4.5	4.5	5.5	8	84	87	84	86	87	818368	806465	<0.2	1.7	1.8		
						1.0	0.4	185	27.1	7.8	7.8	22.7	22.7	64.9	64.9	4.5	4.5	5.6	8	86	8	86	8	86	8	86	818368	806465	<0.2	1.6	1.8
					Middle	3.4	0.5	222	26.8	7.8	7.8	24.7	24.8	65.4	65.6	4.5	4.6	9.8	8	86	8	86	8	85	8	85	818368	806465	<0.2	2.0	1.8
						3.4	0.6	229	26.4	7.8	7.8	24.9	24.8	65.7	65.6	4.6	4.6	9.9	8	85	8	85	8	85	8	85	818368	806465	<0.2	1.8	1.8
					Bottom	5.7	0.4	136	26.4	7.8	7.8	26.5	26.6	62.3	62.5	4.3	4.4	31.3	32	89	32	89	32	89	32	89	818368	806465	<0.2	1.7	1.8
						5.7	0.5	140	26.0	7.8	7.8	26.7	26.6	62.7	62.5	4.4	4.4	31.4	32	92	32	92	32	92	32	92	818368	806465	<0.2	1.7	1.8
18-Aug-16	Rough	Cloudy	19:35	6.5	Surface	1.0	0.4	207	26.8	7.8	7.8	26.0	26.0	73.0	73.0	5.0	4.9	5.9	9	87	86	87	84	86	818342	806452	<0.2	1.5	1.3		
						1.0	0.4	210	26.8	7.8	7.8	26.0	26.0	73.0	73.0	5.0	4.9	5.9	9	84	9	84	9	84	9	84	818342	806452	<0.2	1.5	1.3
					Middle	3.3	0.3	203	26.4	7.8	7.8	28.0	28.0	68.8	68.8	4.7	4.7	8.7	10	81	10	81	10	81	10	81	818342	806452	<0.2	1.2	1.3
						3.3	0.4	221	26.3	7.8	7.8	28.0	28.0	68.8	68.8	4.7	4.7	8.9	11	86	11	86	11	86	11	86	818342	806452	<0.2	1.3	1.3
					Bottom	5.5	0.4	202	26.2	7.8	7.8	28.9	28.9	69.0	69.1	4.8	4.8	10.0	15	91	15	91	15	91	15	91	818342	806452	<0.2	1.0	1.3
						5.5	0.4	214	26.1	7.8	7.8	28.9	28.9	69.2	69.1	4.8	4.8	10.1	15	89	15	89	15	89	15	89	818342	806452	<0.2	1.0	1.3
20-Aug-16	Sunny	Calm	08:02	7.8	Surface	1.0	0.8	58	27.7	7.7	7.7	22.2	22.3	73.2	73.2	5.1	5.1	4.2	3	88	90	88	90	90	818355	806449	<0.2	2.4	1.9		
						1.0	0.8	61	27.6	7.7	7.7	22.3	22.3	73.2	73.2	5.1	5.1	4.3	3	90	3	90	3	90	3	90	818355	806449	<0.2	2.7	1.9
					Middle	3.9	0.7	94	27.2	7.7	7.7	25.7	25.7	73.2	73.3	5.0	5.1	22.4	23	91	23	91	23	91	23	91	818355	806449	<0.2	1.6	1.9
						3.9	0.7	96	27.2	7.7	7.7	25.7	25.7	73.3	73.3	5.0	5.1	22.3	22	88	22	88	22	88	22	88	818355	806449	<0.2	1	

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM2 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Fine	Moderate	20:22	7.5	Surface	1.0	0.4	272	27.4	7.7	7.7	20.9	20.9	74.9	74.9	5.3	5.2	9.2	11.6	11	29	93	88	818841	806193	<0.2	<0.2	2.3	1.8		
						1.0	0.4	287	27.4	7.7	7.7	20.9	20.9	74.8	74.8	5.3	5.2	9.0	11.6	11	29	95	88	818841	806193	<0.2	<0.2	2.0	1.8		
						3.8	0.4	231	26.9	7.7	7.7	23.5	23.5	72.2	72.2	5.1	5.1	13.2	11.6	13	29	80	88	818841	806193	<0.2	<0.2	2.0	1.8		
						3.8	0.4	238	26.9	7.7	7.7	23.5	23.5	72.2	72.2	5.1	5.1	13.2	11.6	12	29	78	88	818841	806193	<0.2	<0.2	1.8	1.8		
						6.5	0.4	258	26.9	7.7	7.7	23.7	23.7	71.7	71.7	5.0	5.0	12.8	11.6	62	29	93	88	818841	806193	<0.2	<0.2	1.2	1.8		
						6.5	0.5	258	26.9	7.7	7.7	23.6	23.7	71.6	71.7	5.0	5.0	12.3	11.6	62	29	89	88	818841	806193	<0.2	<0.2	1.2	1.8		
6-Aug-16	Sunny	Moderate	09:05	8.4	Surface	1.0	0.6	69	27.3	7.7	7.7	23.4	23.4	64.0	64.0	4.5	4.3	2.8	7.3	4	7	86	91	818864	806205	<0.2	<0.2	2.0	1.5		
						1.0	0.7	71	27.4	7.7	7.7	23.3	23.4	63.9	64.0	4.4	4.3	2.7	7.3	3	7	87	91	818864	806205	<0.2	<0.2	2.0	1.5		
						4.2	0.6	100	26.7	7.7	7.7	25.3	25.3	60.9	60.8	4.2	4.2	6.8	7.3	3	7	91	91	818864	806205	<0.2	<0.2	1.5	1.5		
						4.2	0.7	107	26.7	7.7	7.7	25.2	25.3	60.7	60.8	4.2	4.2	7.8	7.3	4	7	89	91	818864	806205	<0.2	<0.2	1.4	1.5		
						7.4	0.4	157	25.9	7.7	7.7	27.4	27.3	60.5	60.6	4.2	4.2	12.1	7.3	15	7	95	91	818864	806205	<0.2	<0.2	1.0	1.5		
						7.4	0.5	170	26.3	7.7	7.7	27.2	27.3	60.6	60.6	4.2	4.2	11.8	7.3	14	7	97	91	818864	806205	<0.2	<0.2	1.0	1.5		
9-Aug-16	Fine	Moderate	11:15	8.4	Surface	1.0	0.6	35	30.0	7.9	7.9	15.0	15.1	97.0	96.8	6.8	6.4	1.0	1.2	2	4	70	77	818848	806189	<0.2	<0.2	3.1	2.7		
						1.0	0.6	37	30.0	7.9	7.9	15.1	15.1	96.5	96.8	6.7	6.4	1.1	1.2	3	4	72	77	818848	806189	<0.2	<0.2	3.0	2.7		
						4.2	0.6	123	29.3	7.8	7.8	18.4	18.6	86.0	86.1	5.9	5.1	1.2	1.2	3	4	78	77	818848	806189	<0.2	<0.2	2.6	2.7		
						4.2	0.6	132	28.8	7.8	7.8	18.8	18.6	86.1	86.1	6.0	5.1	1.3	1.2	4	4	78	77	818848	806189	<0.2	<0.2	3.0	2.7		
						7.4	0.4	131	27.7	7.7	7.7	23.8	23.9	68.2	68.4	4.7	4.7	1.4	1.2	7	4	80	77	818848	806189	<0.2	<0.2	2.2	2.7		
						7.4	0.5	136	27.6	7.7	7.7	24.0	23.9	68.5	68.4	4.7	4.7	1.4	1.2	7	4	82	77	818848	806189	<0.2	<0.2	2.1	2.7		
11-Aug-16	Cloudy	Moderate	13:40	8.0	Surface	1.0	0.6	78	27.5	7.8	7.8	21.3	21.7	71.0	71.2	5.0	4.4	1.0	3.2	3	5	90	92	818858	806185	<0.2	<0.2	2.3	1.6		
						1.0	0.6	81	27.1	7.8	7.8	22.1	21.7	71.3	71.2	5.0	4.4	1.0	3.2	2	5	92	92	818858	806185	<0.2	<0.2	2.5	1.6		
						4.0	0.4	140	26.4	7.8	7.8	27.1	27.1	55.0	55.0	3.8	3.8	0.9	3.2	3	5	91	92	818858	806185	<0.2	<0.2	1.5	1.6		
						4.0	0.4	149	26.4	7.8	7.8	27.1	27.1	54.9	55.0	3.8	3.8	0.9	3.2	3	5	87	92	818858	806185	<0.2	<0.2	1.7	1.6		
						7.0	0.4	203	25.2	7.8	7.8	30.8	31.0	48.5	49.1	3.4	3.5	7.5	3.2	8	5	95	92	818858	806185	<0.2	<0.2	1.1	1.6		
						7.0	0.4	215	24.8	7.8	7.8	31.1	31.0	49.6	49.1	3.5	3.5	7.6	3.2	8	5	95	92	818858	806185	<0.2	<0.2	0.7	1.6		
13-Aug-16	Cloudy	Moderate	15:48	7.6	Surface	1.0	0.6	238	28.3	7.9	7.9	18.4	18.4	88.9	88.8	6.3	5.6	2.4	5.7	2	6	76	83	818843	806212	<0.2	<0.2	2.7	2.0		
						1.0	0.7	238	28.3	7.9	7.9	18.4	18.4	88.7	88.8	6.2	5.6	2.2	5.7	2	6	73	83	818843	806212	<0.2	<0.2	2.8	2.0		
						3.8	0.4	241	27.3	7.8	7.8	22.6	22.6	71.1	71.1	5.0	5.1	7.0	5.7	8	6	90	83	818843	806212	<0.2	<0.2	1.7	2.0		
						3.8	0.4	263	27.3	7.8	7.8	22.6	22.6	71.0	71.1	5.0	5.1	6.8	5.7	9	6	87	83	818843	806212	<0.2	<0.2	1.8	2.0		
						6.6	0.4	159	25.0	7.8	7.8	31.1	31.2	51.0	51.8	3.5	3.6	7.7	5.7	8	6	87	83	818843	806212	<0.2	<0.2	1.4	2.0		
						6.6	0.4	161	25.0	7.8	7.8	31.2	31.2	52.5	51.8	3.6	3.6	8.0	5.7	9	6	85	83	818843	806212	<0.2	<0.2	1.3	2.0		
16-Aug-16	Cloudy	Moderate	17:45	7.5	Surface	1.0	0.3	222	27.2	7.7	7.7	22.3	22.4	63.2	63.4	4.4	4.4	5.0	15.5	5	14	78	85	818868	806201	<0.2	<0.2	2.5	2.0		
						1.0	0.3	222	26.9	7.7	7.7	22.5	22.4	63.5	63.4	4.5	4.4	5.1	15.5	6	14	80	85	818868	806201	<0.2	<0.2	2.5	2.0		
						3.8	0.5	160	26.6	7.8	7.8	23.9	23.8	61.5	61.3	4.3	4.4	8.6	15.5	10	14	87	85	818868	806201	<0.2	<0.2	1.9	2.0		
						3.8	0.5	174	27.0	7.8	7.8	23.7	23.8	61.1	61.3	4.3	4.4	8.5	15.5	11	14	85	85	818868	806201	<0.2	<0.2	2.2	2.0		
						6.5	0.4	117	26.2	7.8	7.8	27.3	27.4	57.5	58.0	4.0	4.1	32.9	15.5	26	14	91	85	818868	806201	<0.2	<0.2	1.6	2.0		
						6.5	0.4	126	25.8	7.8	7.8	27.5	27.4	58.4	58.0	4.1	4.1	33.1	15.5	28	14	91	85	818868	806201	<0.2	<0.2	1.2	2.0		
18-Aug-16	Rough	Cloudy	19:22	7.2	Surface	1.0	1.0	232	27.1	7.7	7.7	23.6	23.7	72.8	72.8	5.1	5.0	6.7	9.6	9	13	83	87	818850	806181	<0.2	<0.2	2.4	2.0		
						1.0	1.0	248	27.1	7.7	7.7	23.7	23.7	72.8	72.8	5.1	5.0	6.8	9.6	9	13	79	87	818850	806181	<0.2	<0.2	2.2	2.0		
						3.6	0.8	233	26.9	7.7	7.7	24.8	24.8	70.6	70.6	4.9	4.9	10.3	9.6	16	13	96	87	818850	806181	<0.2	<0.2	1.8	2.0		
						3.6	0.9	233	27.0	7.7	7.7	24.8	24.8	70.6	70.6	4.9	4.9	10.1	9.6	14	13	92	87	818850	806181	<0.2	<0.2	1.9	2.0		
						6.2	0.7	232	27.0	7.7	7.7	24.9	24.9	71.2	71.4	4.9	5.0	11.8	9.6	15	13	86	87	818850	806181	<0.2	<0.2	1.7	2.0		
						6.2	0.8	246	27.0	7.7	7.7	24.9	24.9	71.5	71.4	5.0	5.0	11.6	9.6	15	13	87	87	818850	806181	<0.2	<0.2	1.7	2.0		
20-Aug-16	Sunny	Calm	08:08	9.0	Surface	1.0	0.8	76	27.6	7.7	7.7	22.7	22.7	72.4	72.4	5.0	5.0	4.3	23.3	4	15	86	89	818860	806211	<0.2	<0.2	2.4	2.1		
						1.0	0.8	81	27.6	7.7	7.7	22.6	22.7	72.4	72.4	5.0	5.0	4.1	23.3	5	15	87	89	818860	806211	<0.2	<0.2	2.8	2.1		
						4.5	0.6	76	27.1	7.7	7.7	26.0	26.0	72.9	72.9	5.0	5.1	19.5	23.3	10	15	91	89	818860	806211	<0.2	<0.2	2.0	2.1		
						4.5	0.7	76	27.1	7.7	7.7	26.0	26.0	72.9	72.9	5.0	5.1	19.8	23.3	12	15	90	89	818860	806211	<0.2	<0.2	1.9	2.1		
						8.0	0.5	112	27.1	7.7	7.7	26.1	26.1	73.8	73.9	5.1	5.1	47.0	23.3	30	15	90	89	818860	806211	<0.2	<0.2	1.8	2.1		
						8.0	0.5	118	27.1	7.7	7.7	26.1	26.1	74.0	73.9	5.1	5.1	44.8</													

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM3 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Fine	Moderate	20:09	7.6	Surface	1.0	0.5	260	27.7	7.7	7.7	19.8	19.8	73.0	73.1	5.2	5.2	11.0	11.4	9	8	85	81	819396	806019	<0.2	<0.2	3.0	2.9
						1.0	0.5	268	27.7	7.7	7.7	19.8	19.8	73.1	73.1	5.2	5.2	11.4	11.4	8	8	85	85						
					Middle	3.8	0.4	274	27.6	7.7	7.7	20.7	20.7	73.2	73.2	5.1	5.1	15.1	15.3	18	18	85	83						
						3.8	0.5	300	27.5	7.7	7.7	20.8	20.8	73.2	73.2	5.1	5.1	15.3	15.3	19	19	83	83						
					Bottom	6.6	0.4	283	27.3	7.7	7.7	21.8	21.8	72.6	72.6	5.1	5.1	19.3	19.3	15	15	88	88						
						6.6	0.4	296	26.9	7.7	7.7	23.4	22.6	73.1	72.9	5.1	5.1	21.6	21.6	15	15	87	87						
6-Aug-16	Fine	Moderate	09:18	8.9	Surface	1.0	0.6	93	27.1	7.7	7.7	24.4	24.5	62.4	62.3	4.3	4.3	3.1	2.9	4	3	89	87	819407	806021	<0.2	<0.2	1.4	1.7
						1.0	0.6	95	27.0	7.7	7.7	24.5	24.5	62.2	62.3	4.3	4.3	2.9	2.9	3	3	87	87						
					Middle	4.5	0.6	122	26.5	7.7	7.7	25.9	26.0	59.6	59.6	4.2	4.1	4.4	4.7	6	4	92	94						
						4.5	0.7	127	26.5	7.7	7.7	26.0	26.0	59.6	59.6	4.2	4.1	4.7	4.7	4	4	94	94						
					Bottom	7.9	0.5	139	26.1	7.7	7.7	27.5	27.6	59.3	59.9	4.1	4.2	12.4	11.8	16	17	95	92						
						7.9	0.5	146	25.8	7.7	7.7	27.7	27.7	60.4	60.4	4.2	4.2	11.8	11.8	17	17	92	92						
9-Aug-16	Fine	Moderate	11:23	8.6	Surface	1.0	0.5	30	29.8	7.9	7.9	15.2	15.2	97.0	96.8	6.8	6.7	1.0	1.0	3	3	70	80	819408	805999	<0.2	<0.2	2.9	3.0
						1.0	0.6	31	29.8	7.9	7.9	15.2	15.2	96.5	96.8	6.7	6.7	1.0	1.0	3	3	80	83						
					Middle	4.3	0.5	102	29.1	7.8	7.8	18.8	18.8	88.1	87.9	6.1	6.1	0.7	0.7	4	4	83	87						
						4.3	0.5	107	29.1	7.8	7.8	18.8	18.8	87.7	87.9	6.1	6.1	0.7	0.7	4	4	87	87						
					Bottom	7.6	0.5	71	26.8	7.7	7.7	26.3	26.4	68.3	68.5	4.7	4.7	1.5	1.6	4	4	92	90						
						7.6	0.5	75	26.8	7.7	7.7	26.4	26.4	68.6	68.5	4.7	4.7	1.6	1.6	4	4	90	90						
11-Aug-16	Cloudy	Moderate	13:53	8.0	Surface	1.0	0.5	125	26.7	7.8	7.8	24.5	24.6	65.2	65.2	4.6	4.5	0.8	0.8	3	4	85	85	819409	806007	<0.2	<0.2	1.9	1.4
						1.0	0.5	128	26.7	7.8	7.8	24.6	24.6	65.1	65.2	4.5	4.5	0.8	0.8	4	4	85	93						
					Middle	4.0	0.4	168	25.9	7.8	7.8	28.3	28.3	51.8	51.8	3.6	3.6	1.0	1.0	4	4	93	92						
						4.0	0.4	184	25.9	7.8	7.8	28.3	28.3	51.8	51.8	3.6	3.6	1.0	1.0	4	4	92	92						
					Bottom	7.0	0.3	195	25.0	7.8	7.8	30.9	30.9	47.9	47.9	3.3	3.3	4.2	4.2	3	4	92	91						
						7.0	0.3	212	25.1	7.8	7.8	30.8	30.9	47.9	47.9	3.3	3.3	4.2	4.2	4	4	91	91						
13-Aug-16	Cloudy	Moderate	15:38	7.8	Surface	1.0	0.5	289	28.5	7.9	7.9	18.3	18.3	96.0	96.0	6.7	6.7	4.6	4.7	5	5	86	83	819399	806021	<0.2	<0.2	2.5	2.1
						1.0	0.6	295	28.5	7.9	7.9	18.3	18.3	95.9	96.0	6.7	6.7	4.7	4.7	5	5	83	95						
					Middle	3.9	0.5	295	27.1	7.8	7.8	23.1	23.3	62.4	62.4	4.4	4.4	4.4	4.4	4	6	95	97						
						3.9	0.5	303	27.1	7.8	7.8	23.5	23.3	62.4	62.4	4.4	4.4	4.4	4.4	6	6	97	100						
					Bottom	6.8	0.5	295	24.6	7.8	7.8	32.1	32.1	40.8	41.3	2.8	2.9	6.7	6.7	10	11	102	100						
						6.8	0.5	307	24.6	7.8	7.8	32.1	32.1	41.7	41.7	2.9	2.9	6.7	6.7	11	11	100	100						
16-Aug-16	Cloudy	Moderate	17:36	7.6	Surface	1.0	0.3	262	27.4	7.7	7.7	21.4	21.4	62.4	62.4	4.4	4.4	4.8	4.8	5	5	86	83	819429	806024	<0.2	<0.2	1.8	1.4
						1.0	0.4	272	27.4	7.7	7.7	21.4	21.4	62.4	62.4	4.4	4.4	4.8	4.8	5	5	83	86						
					Middle	3.8	0.3	209	27.1	7.7	7.7	23.2	23.3	59.1	59.3	4.1	4.1	6.9	6.9	9	10	86	87						
						3.8	0.3	224	26.7	7.7	7.7	23.3	23.3	59.4	59.3	4.2	4.2	6.9	6.9	10	10	87	83						
					Bottom	6.6	0.4	154	26.5	7.8	7.8	25.4	25.7	55.0	55.1	3.8	3.8	14.1	14.0	9	10	83	87						
						6.6	0.4	156	26.4	7.8	7.8	26.0	25.7	55.2	55.1	3.8	3.8	14.0	14.0	10	10	87	87						
18-Aug-16	Rough	Cloudy	19:09	7.3	Surface	1.0	0.9	236	27.0	7.7	7.7	24.0	24.0	67.1	67.1	4.7	4.7	16.3	16.7	23	23	77	78	819401	806010	<0.2	<0.2	2.0	2.2
						1.0	1.0	236	27.0	7.7	7.7	24.0	24.0	67.1	67.1	4.7	4.7	16.7	16.7	23	23	78	96						
					Middle	3.7	0.8	234	26.9	7.7	7.7	24.4	24.4	66.0	66.0	4.6	4.6	31.6	31.3	29	29	96	87						
						3.7	0.9	242	26.9	7.7	7.7	24.4	24.4	66.0	66.0	4.6	4.6	31.3	31.3	29	29	87	97						
					Bottom	6.3	0.7	240	26.9	7.7	7.7	24.5	24.5	66.8	66.9	4.6	4.7	49.7	48.9	65	66	97	94						
						6.3	0.7	240	26.9	7.7	7.7	24.5	24.5	67.0	66.9	4.7	4.7	48.9	48.9	66	66	94	94						
20-Aug-16	Sunny	Calm	08:16	8.9	Surface	1.0	0.7	93	27.6	7.7	7.7	22.7	22.7	71.7	71.8	5.0	5.0	4.3	4.4	4	4	86	87	819397	806016	<0.2	<0.2	2.3	2.6
						1.0	0.7	101	27.6	7.7	7.7	22.7	22.7	71.8	71.8	5.0	5.0	4.4	4.4	4	4	87	86						
					Middle	4.5	0.6	68	27.4	7.7	7.7	24.5	24.2	71.3	71.4	4.9	4.9	12.0	12.9	5	4	85	86						
						4.5	0.7	71	27.4	7.7	7.7	23.9	26.3	71.4	72.0	4.9	4.9	12.9	61.4	4	25	86	87						
					Bottom	7.9	0.4	97	27.1	7.7	7.7	26.3	26.3	72.0	72.1	4.9	4.9	61.4	63.3	25	26	86	87						
						7.9	0.4	102	27.1	7.7	7.7	26.3	26.3	72.1	72.1	4.9	4.9	63.3	63.3	26	26	87	87						
23-Aug-16	Sunny	Moderate	10:30	8.8	Surface	1.0	0.6	231	28.6	7.7	7.7	19.8	19.9	73.2	73.2	5.1	5.1	3.3	3.4	5	4	80	81	819397	806026	<0.2	<0.2	2.9	2.0
						1.0	0.6	234	28.6	7.7	7.7	19.9	19.9	73.2	73.2	5.1	5.1	3.4	3.4	4	4	81	87						
					Middle	4.4	0.7	70	28.2	7.8	7.8	23.6	23.6	71.0	71.0	4.9	4.9	6.8	6.9	8	6	87	86						
						4.4	0.8	71	28.1	7.8	7.8	23.6	23.6	71.0	71.0	4.9	4.9	6.9	6.9	6	6	86	90						
					Bottom	7.8	0.4	108	27.8	7.8	7.8	26.3	26.3	72.4	72.4	4.9	4.9	43.7	43.6	34	35	90	92						
						7.8	0.5	118	27.8	7.8	7.8	26.3	26.3	72.4	72.4	4.9	4.9	43.6	43.6	35	35	92	92						
25-Aug-16	Sunny	Moderate	13:15	8.3	Surface	1.0	0.6	121	29.0	7.8	7.8	21.0	21.0	73.5	73.5	5.0	5.0	2.3	2.5	5	4	84	82	819410	806005	<0.2	<0.2	2.3	2.4
						1.0	0.6	132	29.0	7.8	7.8	21.0	21.0	73.5	73.5	5.0	5.0	2.5	2.7	4	3	82	83						
					Middle	4.2	0.5	108	28.5	7.8	7.8	22.0	22.0	69.0	68.9	4.7	4.7	2.7	2.9	3	4	83	82						
						4.2	0.5	118	28.4	7.8	7.8	22.0	22.0	68.8	68.9	4.7	4.7	2.9	2.9	4	4	82	94						
					Bottom	7.3	0.4	145	27.3	7.8	7.8	27.9	27.9	64.7	65.2	4.4	4.4	11.2	10.5	20	21	94	96						
						7.3	0.4	148	27.3	7.8	7.8	27.9	27.9	65.6	65.6	4.4	4.4	10.5	10.5	21	21	96	96						
27-Aug																													

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM4 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	19:54	7.0	Surface	1.0	0.5	269	27.8	7.6	7.6	19.6	19.7	70.8	71.0	5.0	5.0	11.5	18.7	16	20	76	78	819578	805022	<0.2	<0.2	2.8	2.9		
						1.0	0.5	286	27.4	7.6	7.6	19.8	19.7	71.2	71.0	5.0	5.0	11.6	18.7	15	20	76	78	<0.2	<0.2	2.9	2.9				
					Middle	3.5	0.4	267	27.8	7.6	7.6	20.2	20.3	70.5	70.7	5.0	5.0	20.1	18.7	15	20	78	78	<0.2	<0.2	3.0	3.0				
						3.5	0.5	276	27.4	7.6	7.6	20.4	20.3	70.9	70.7	5.0	5.0	20.1	18.7	15	20	78	78	<0.2	<0.2	3.0	3.0				
					Bottom	6.0	0.4	288	27.8	7.6	7.6	20.2	20.2	71.3	71.4	5.0	5.0	24.4	18.7	27	20	80	80	<0.2	<0.2	2.8	2.8				
						6.0	0.5	303	27.8	7.6	7.6	20.2	20.2	71.5	71.4	5.0	5.0	24.3	18.7	29	20	80	80	<0.2	<0.2	2.7	2.7				
6-Aug-16	Fine	Moderate	09:33	8.4	Surface	1.0	0.4	153	27.7	7.6	7.6	20.1	20.1	67.7	67.5	4.8	4.7	2.4	12.0	4	12	83	88	819563	805042	<0.2	<0.2	3.2	2.8		
						1.0	0.5	157	28.0	7.6	7.6	20.0	20.1	67.3	67.5	4.7	4.7	2.2	12.0	3	12	84	88	<0.2	<0.2	2.8	2.8				
					Middle	4.2	0.6	73	27.5	7.6	7.6	22.4	22.5	62.5	62.6	4.4	4.4	3.4	12.0	3	12	84	88	<0.2	<0.2	2.7	2.7				
						4.2	0.6	76	27.4	7.6	7.6	22.5	22.5	62.6	62.6	4.4	4.4	3.5	12.0	3	12	85	88	<0.2	<0.2	2.9	2.9				
					Bottom	7.4	0.5	98	25.6	7.7	7.7	28.0	27.9	59.5	59.6	4.2	4.2	31.8	12.0	28	12	96	96	<0.2	<0.2	0.9	0.9				
						7.4	0.5	101	26.0	7.7	7.7	27.7	27.9	59.7	59.6	4.2	4.2	28.9	12.0	29	12	93	96	<0.2	<0.2	1.1	1.1				
9-Aug-16	Fine	Moderate	11:33	8.0	Surface	1.0	0.3	42	29.8	7.8	7.8	15.6	15.7	93.4	93.3	6.5	5.8	0.9	2.7	4	4	72	79	819565	805047	<0.2	<0.2	3.2	2.3		
						1.0	0.4	44	29.5	7.8	7.8	15.7	15.7	93.2	93.3	6.5	5.8	1.0	2.7	3	4	72	79	<0.2	<0.2	3.3	2.3				
					Middle	4.0	0.5	28	28.0	7.7	7.7	22.6	22.6	72.2	72.1	5.0	5.0	1.6	2.7	3	4	78	79	<0.2	<0.2	2.5	2.5				
						4.0	0.5	28	28.0	7.7	7.7	22.6	22.6	72.0	72.1	5.0	5.0	1.5	2.7	3	4	80	79	<0.2	<0.2	2.2	2.2				
					Bottom	7.0	0.4	41	25.3	7.7	7.7	30.0	30.0	53.6	54.3	3.7	3.8	5.7	2.7	5	4	84	79	<0.2	<0.2	1.1	1.1				
						7.0	0.4	44	25.4	7.7	7.7	29.9	30.0	54.9	54.3	3.8	3.8	5.5	2.7	5	4	87	79	<0.2	<0.2	1.2	1.2				
11-Aug-16	Cloudy	Moderate	14:08	7.5	Surface	1.0	0.3	168	27.5	7.8	7.8	21.0	21.1	80.4	80.3	5.6	4.7	1.0	1.2	3	4	88	89	819572	805035	<0.2	<0.2	2.7	2.2		
						1.0	0.3	176	27.5	7.8	7.8	21.1	21.1	80.2	80.3	5.6	4.7	1.0	1.2	3	4	90	89	<0.2	<0.2	2.6	2.2				
					Middle	3.8	0.3	182	25.9	7.8	7.8	28.0	28.0	54.6	54.6	3.8	3.8	0.7	1.2	4	4	81	89	<0.2	<0.2	2.2	2.2				
						3.8	0.3	188	25.9	7.8	7.8	28.0	28.0	54.6	54.6	3.8	3.8	0.8	1.2	5	4	82	89	<0.2	<0.2	2.1	2.1				
					Bottom	6.5	0.3	182	25.1	7.8	7.8	30.6	30.7	51.0	51.1	3.5	3.6	1.9	1.2	5	4	95	89	<0.2	<0.2	1.6	1.6				
						6.5	0.3	189	25.1	7.8	7.8	30.7	30.7	51.2	51.1	3.6	3.6	2.0	1.2	4	4	95	89	<0.2	<0.2	2.1	2.1				
13-Aug-16	Cloudy	Moderate	15:28	7.3	Surface	1.0	0.7	286	28.6	7.9	7.9	17.2	17.3	90.1	89.9	6.3	4.7	2.1	3.8	4	5	77	92	819576	805058	<0.2	<0.2	2.8	1.5		
						1.0	0.7	291	28.6	7.9	7.9	17.3	17.3	89.7	89.9	6.3	4.7	2.1	3.8	4	5	79	92	<0.2	<0.2	2.6	1.5				
					Middle	3.7	0.4	241	25.6	7.7	7.7	29.8	30.2	43.3	43.4	3.0	2.8	2.7	3.8	3	5	96	92	<0.2	<0.2	1.3	1.3				
						3.7	0.4	253	25.3	7.7	7.7	30.5	30.2	43.5	43.4	3.0	2.8	2.8	3.8	2	5	96	92	<0.2	<0.2	1.2	1.2				
					Bottom	6.3	0.4	155	24.7	7.8	7.8	32.1	32.3	39.5	39.9	2.7	2.8	6.4	3.8	10	5	103	92	<0.2	<0.2	0.4	0.4				
						6.3	0.4	159	24.3	7.8	7.8	32.4	32.3	40.2	39.9	2.8	2.8	6.5	3.8	9	5	102	92	<0.2	<0.2	0.5	0.5				
16-Aug-16	Cloudy	Moderate	17:26	7.2	Surface	1.0	0.5	276	27.5	7.7	7.7	21.7	21.7	61.1	61.1	4.3	4.1	4.0	6.0	4	6	80	83	819569	805050	<0.2	<0.2	1.3	1.1		
						1.0	0.5	290	27.5	7.7	7.7	21.7	21.7	61.0	61.1	4.3	4.1	4.1	6.0	4	6	80	83	<0.2	<0.2	1.6	1.1				
					Middle	3.6	0.4	252	26.8	7.7	7.7	24.7	24.7	56.8	56.8	3.9	3.9	7.3	6.0	7	6	83	83	<0.2	<0.2	1.0	1.0				
						3.6	0.4	276	27.0	7.7	7.7	24.6	24.7	56.7	56.8	3.9	3.9	7.3	6.0	8	6	82	83	<0.2	<0.2	0.8	0.8				
					Bottom	6.2	0.4	226	27.0	7.7	7.7	24.6	24.6	58.0	58.2	4.0	4.0	6.6	6.0	8	6	85	83	<0.2	<0.2	0.9	0.9				
						6.2	0.4	239	27.0	7.7	7.7	24.6	24.6	58.3	58.2	4.0	4.0	6.8	6.0	7	6	85	83	<0.2	<0.2	1.1	1.1				
18-Aug-16	Rough	Cloudy	18:54	7.0	Surface	1.0	0.8	234	26.8	7.7	7.7	24.4	24.4	65.9	65.9	4.6	4.6	23.2	33.2	35	47	81	85	819577	805029	<0.2	<0.2	1.9	2.0		
						1.0	0.8	256	26.8	7.7	7.7	24.4	24.4	65.9	65.9	4.6	4.6	23.3	33.2	35	47	79	85	<0.2	<0.2	2.0	2.0				
					Middle	3.5	0.7	236	26.9	7.7	7.7	24.3	24.3	65.8	65.8	4.6	4.6	28.0	33.2	35	47	83	85	<0.2	<0.2	1.9	1.9				
						3.5	0.7	256	26.9	7.7	7.7	24.3	24.3	65.8	65.8	4.6	4.6	28.2	33.2	35	47	82	85	<0.2	<0.2	1.9	1.9				
					Bottom	6.0	0.6	235	26.9	7.7	7.7	24.3	24.4	66.2	66.2	4.6	4.6	47.9	33.2	71	47	94	85	<0.2	<0.2	2.0	2.0				
						6.0	0.6	252	26.9	7.7	7.7	24.4	24.4	66.2	66.2	4.6	4.6	48.4	33.2	70	47	91	85	<0.2	<0.2	2.0	2.0				
20-Aug-16	Sunny	Moderate	08:25	8.4	Surface	1.0	0.7	70	27.7	7.6	7.6	22.1	22.2	70.8	71.1	4.9	5.0	4.6	78.9	3	25	80	91	819589	805025	<0.2	<0.2	2.7	2.0		
						1.0	0.7	71	27.3	7.6	7.6	22.3	22.2	71.3	71.1	5.0	5.0	4.7	78.9	3	25	82	91	<0.2	<0.2	2.4	2.0				
					Middle	4.2	0.7	57	27.1	7.8	7.8	26.3	26.4	73.0	73.0	5.0	5.0	51.9	78.9	24	25	97	91	<0.2	<0.2	2.0	2.0				
						4.2	0.8	62	27.1	7.8	7.8	26.4	26.4	73.0	73.0	5.0	5.0	54.2	78.9	25	25	96	91	<0.2	<0.2	1.5	1.5				
					Bottom	7.4	0.6	55	26.5	7.8	7.8	26.7	26.6	74.1	73.9	5.1	5.1	180.2	78.9	48	25	95	91	<0.2	<0.2	1.5	1.5				
						7.4	0.7	58	27.0	7.8	7.8	26.5	26.6	73.7	73.9	5.1	5.1	177.7	78.9	47	25	96	91	<0.2	<0.2	1.6	1.6				
23-Aug-16	Sunny	Moderate	10:38	8.2	Surface	1.0	0.6	151	29.4	7.6	7.6	16.7	16.7	72.8	72.8	5.1	5.0	3.4	24.5	6	42	82	88	819556	805030	<0.2	<0.2	2.5	2.1		
						1.0	0.6	165	29.5	7.6	7.6	16.7	16.7	72.7	72.8	5.1	5.0	3.2	24.5	6	42	80	88	<0.2	<0.2	2.5	2.1				
					Middle	4.1	0.7	87	28.4	7.7	7.7	21.2	21.2	70.2	70.3	4.8	4.9	7.0	24.5	6	42	86</									

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM5 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	19:40	6.0	Surface	1.0	0.5	282	27.6	7.6	7.6	19.8	19.8	70.3	70.4	5.0	5.0	15.0	21	77	<0.2	2.4	820580	804920	<0.2	2.4	2.4		
						1.0	0.6	307	27.6	7.6	7.6	19.9	19.8	70.4	70.4	5.0	5.0	15.5	20	78	<0.2	2.6							
					Middle	3.0	0.5	279	27.6	7.6	7.6	20.3	20.3	69.6	69.6	4.9	4.9	25.7	34	83	<0.2	2.4							
						3.0	0.5	284	27.6	7.6	7.6	20.3	20.3	69.6	69.6	4.9	4.9	26.1	34	83	<0.2	2.4							
					Bottom	5.0	0.4	254	27.3	7.7	7.7	21.6	21.6	70.0	70.2	4.9	4.9	33.2	34	86	<0.2	2.1							
						5.0	0.4	270	27.2	7.7	7.7	21.7	21.6	70.3	70.2	4.9	4.9	33.4	35	84	<0.2	2.2							
6-Aug-16	Fine	Moderate	09:17	7.2	Surface	1.0	0.6	265	28.6	7.6	7.6	16.8	16.8	72.1	72.1	5.1	5.1	2.2	3	87	<0.2	4.0	820544	804922	<0.2	2.5	2.5		
						1.0	0.6	272	28.6	7.6	7.6	16.8	16.8	72.1	72.1	5.1	5.1	2.3	4	83	<0.2	3.6							
					Middle	3.6	0.6	167	27.4	7.6	7.6	22.7	22.7	62.1	62.1	4.3	4.3	6.0	3	90	<0.2	2.3							
						3.6	0.6	181	27.4	7.6	7.6	22.7	22.7	62.0	62.1	4.3	4.3	6.7	5	87	<0.2	3.0							
					Bottom	6.2	0.6	99	25.8	7.7	7.7	28.0	28.0	57.6	58.0	4.0	4.1	54.8	34	96	<0.2	0.9							
						6.2	0.6	107	25.8	7.7	7.7	28.0	28.0	58.3	58.3	4.1	4.1	52.9	32	98	<0.2	1.0							
9-Aug-16	Fine	Moderate	11:41	7.0	Surface	1.0	0.5	307	29.7	7.9	7.9	16.7	16.7	92.1	92.0	6.4	6.4	1.1	3	70	<0.2	2.9	820553	804916	<0.2	2.5	2.5		
						1.0	0.5	316	29.7	7.9	7.9	16.7	16.7	91.9	92.0	6.4	6.4	1.2	4	72	<0.2	3.0							
					Middle	3.5	0.3	264	29.1	7.8	7.8	19.7	19.7	88.3	88.1	6.1	6.1	1.1	4	75	<0.2	2.5							
						3.5	0.3	283	29.1	7.8	7.8	19.7	19.7	87.8	88.1	6.0	6.0	1.2	4	77	<0.2	2.8							
					Bottom	6.0	0.3	71	25.6	7.7	7.7	29.4	29.4	56.0	57.0	3.9	4.0	4.9	4	85	<0.2	2.0							
						6.0	0.4	73	25.7	7.7	7.7	29.3	29.4	57.9	57.0	4.0	4.0	4.6	5	83	<0.2	2.0							
11-Aug-16	Fine	Moderate	14:22	6.5	Surface	1.0	0.4	251	28.3	7.8	7.8	16.3	16.3	85.7	85.7	6.1	6.1	1.0	3	76	<0.2	3.7	820582	804941	<0.2	2.2	2.2		
						1.0	0.4	267	28.3	7.8	7.8	16.3	16.3	85.6	85.7	6.1	6.1	1.0	4	74	<0.2	3.6							
					Middle	3.3	0.4	261	27.0	7.8	7.8	22.9	22.9	71.7	71.7	5.0	5.0	1.9	6	83	<0.2	2.4							
						3.3	0.4	277	27.0	7.8	7.8	22.9	22.9	71.6	71.7	5.0	5.0	1.7	6	83	<0.2	2.2							
					Bottom	5.5	0.3	180	24.7	7.8	7.8	31.5	31.5	46.7	47.1	3.2	3.3	3.5	8	98	<0.2	0.6							
						5.5	0.4	196	24.7	7.8	7.8	31.5	31.5	47.5	47.1	3.3	3.3	3.4	7	96	<0.2	0.7							
13-Aug-16	Cloudy	Moderate	15:19	6.1	Surface	1.0	0.6	286	28.5	7.9	7.9	18.0	18.0	91.8	91.8	6.4	6.4	2.3	4	84	<0.2	2.6	820569	804904	<0.2	1.8	1.8		
						1.0	0.6	305	28.5	7.9	7.9	18.0	18.0	91.8	91.8	6.4	6.4	2.3	4	80	<0.2	2.4							
					Middle	3.1	0.5	276	27.9	7.7	7.7	20.3	20.3	69.9	69.9	4.9	4.9	1.9	3	82	<0.2	2.2							
						3.1	0.5	276	27.9	7.7	7.7	20.3	20.3	69.8	69.9	4.9	4.9	1.9	3	82	<0.2	2.0							
					Bottom	5.1	0.3	234	25.2	7.7	7.7	30.7	30.7	38.5	38.6	2.7	2.7	24.8	27	101	<0.2	0.6							
						5.1	0.3	254	25.2	7.7	7.7	30.7	30.7	38.7	38.7	2.7	2.7	28.7	27	99	<0.2	0.7							
16-Aug-16	Cloudy	Moderate	17:18	6.1	Surface	1.0	0.4	265	27.3	7.7	7.7	22.2	22.3	57.9	58.1	4.0	4.0	3.6	3	81	<0.2	1.7	820553	804909	<0.2	1.7	1.7		
						1.0	0.4	266	26.9	7.7	7.7	22.4	22.3	58.2	58.1	4.1	4.0	3.7	3	80	<0.2	1.8							
					Middle	3.1	0.5	279	26.9	7.7	7.7	24.7	24.8	55.6	55.7	3.9	4.0	4.8	3	80	<0.2	1.0							
						3.1	0.5	282	26.8	7.7	7.7	24.8	24.8	55.8	55.7	3.9	4.0	5.1	3	87	<0.2	1.2							
					Bottom	5.1	0.4	244	26.7	7.7	7.7	25.9	26.0	58.0	58.1	4.0	4.0	13.8	6	83	<0.2	1.7							
						5.1	0.4	250	26.6	7.7	7.7	26.0	26.0	58.2	58.1	4.0	4.0	13.8	5	85	<0.2	2.5							
18-Aug-16	Rough	Cloudy	18:40	6.0	Surface	1.0	0.8	244	26.8	7.7	7.7	24.5	24.5	65.9	65.9	4.6	4.6	12.4	16	85	<0.2	1.9	820565	804935	<0.2	1.9	1.9		
						1.0	0.9	254	26.8	7.7	7.7	24.5	24.5	65.9	65.9	4.6	4.6	12.6	16	84	<0.2	1.9							
					Middle	3.0	0.7	238	26.7	7.7	7.7	24.7	24.7	66.1	66.1	4.6	4.6	19.5	19	79	<0.2	1.9							
						3.0	0.7	245	26.8	7.7	7.7	24.7	24.7	66.1	66.1	4.6	4.6	19.4	19	79	<0.2	1.9							
					Bottom	5.0	0.7	229	26.7	7.7	7.7	24.9	24.9	67.6	67.7	4.7	4.7	29.2	28	82	<0.2	1.9							
						5.0	0.7	234	26.7	7.7	7.7	24.9	24.9	67.7	67.7	4.7	4.7	29.3	28	82	<0.2	1.8							
20-Aug-16	Sunny	Moderate	08:33	7.3	Surface	1.0	0.8	110	28.0	7.6	7.6	20.7	20.7	70.6	70.7	4.9	4.9	3.2	4	84	<0.2	2.7	820560	804919	<0.2	2.3	2.3		
						1.0	0.8	114	27.9	7.6	7.6	20.7	20.7	70.7	70.7	4.9	4.9	3.3	4	83	<0.2	2.7							
					Middle	3.7	0.9	52	27.5	7.7	7.7	24.3	24.2	71.2	71.2	4.9	4.9	10.8	3	92	<0.2	2.6							
						3.7	0.9	52	27.5	7.7	7.7	24.0	24.0	71.2	71.2	4.9	4.9	10.9	3	94	<0.2	2.8							
					Bottom	6.3	0.6	120	27.0	7.8	7.8	26.7	26.7	74.0	74.1	5.1	5.1	88.4	42	97	<0.2	1.6							
						6.3	0.7	121	27.1	7.8	7.8	26.6	26.7	74.1	74.1	5.1	5.1	88.1	41	97	<0.2	1.4							
23-Aug-16	Sunny	Moderate	10:46	7.1	Surface	1.0	0.7	171	28.7	7.7	7.7	18.8	18.8	70.4	70.4	4.9	4.9	4.4	5	82	<0.2	1.8	820546	804915	<0.2	1.7	1.7		
						1.0	0.7	173	28.7	7.7	7.7	18.8	18.8	70.4	70.4	4.9	4.9	4.3	5	83	<0.2	1.7							
					Middle	3.6	0.8	50	28.3	7.7	7.7	22.0	22.0	69.3	69.3	4.8	4.8	7.6	18	91	<0.2	2.2							
						3.6	0.8	51	28.3	7.7	7.7	22.0	22.0	69.3	69.3	4.8	4.8	7.8	19	92	<0.2	2.1							
					Bottom	6.1	0.6	105	27.6	7.8	7.8	26.7	26.7	72.2	72.3	4.9	4.9	120.9	164	97	<0.2	1.0							
						6.1	0.6	107	27.6	7.8	7.8	26.7	26.7	72.3	72.3	4.9	4.9	120.1	166	98	<0.2	1.1							
25-Aug-16	Sunny	Moderate	13:30	6.9	Surface	1.0	0.5	224	29.5	7.7	7.7	17.6	17.6	71.3	71.3	4.9	4.9	1.8	4	90	<0.2	2.6	820544	804927	<0.2	2.4	2.4		
						1.0	0.5	240	29.5	7.7	7.7	17.6	17.6	71.2	71.3	4.9	4.9	1.8	4	91	<0.2	2.8							
					Middle	3.5	0.6	152	28.4	7.7	7.7	21.6	21.6	67.1	67.1	4.6	4.6	4.0	6	82	<0.2	2.7							
						3.5	0.6	153	28.4	7.7	7.7	21.6	21.6	67.0	67.1	4.6	4.6	4.0	6	85	<0.2	2.9							
					Bottom	5.9	0.4	167	27.2	7.8	7.8	28.2	28.2	61.4	61.5	4.2	4.2	16.8	24	96	<0.2	1.8							
						5.9	0.5	179	27.2	7.8	7.8	28.2	28.2	61.6	61.5	4.2	4.2	17.4	22	93	<0.2	1.6							
27-Aug-16	Cloudy	Moderate	14:46	6.2	Surface	1.0	0.5	278	29.4	7.8	7.8	17.9	17.9	84.0	84.0	5.8	5.8	1.8	4	79	<0.2	2.8	820546	804907	<0.2	2.5	2.5		
						1																							

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM6 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	19:25	6.0	Surface	1.0	0.4	247	27.6	27.6	7.6	7.6	20.1	20.0	69.5	69.5	4.9	4.9	20.0	36.5	24	37	81	81	821041	805819	<0.2	2.4	<0.2	2.5
						1.0	0.5	266	27.6	27.6	7.6	7.6	20.0	20.0	69.5	69.5	4.9	4.9	20.2	25	80	81	<0.2	2.4			<0.2	2.5		
					Middle	3.0	0.4	261	27.5	27.5	7.7	7.7	20.5	20.5	70.1	70.2	4.9	4.9	39.1	40	83	83	<0.2	2.4			<0.2	2.5		
						3.0	0.5	277	27.5	27.5	7.7	7.7	20.5	20.5	70.3	70.3	5.0	5.0	40.0	38	85	85	<0.2	2.4			<0.2	2.5		
					Bottom	5.0	0.4	261	27.6	27.6	7.7	7.7	20.5	20.5	74.4	75.1	5.2	5.2	50.7	48	76	48	86	86			<0.2	2.6	<0.2	2.6
						5.0	0.4	283	27.6	27.6	7.7	7.7	20.5	20.5	75.7	75.1	5.3	5.3	49.1	48	80	80	<0.2	2.6			<0.2	2.6		
6-Aug-16	Cloudy	Moderate	09:33	7.2	Surface	1.0	0.6	102	27.9	27.9	7.6	7.6	18.8	18.8	66.2	66.1	4.7	4.7	2.4	7.7	3	10	82	90	821074	805841	<0.2	2.8	<0.2	1.9
						1.0	0.6	104	27.9	27.9	7.6	7.6	18.8	18.8	66.0	66.1	4.7	4.7	2.4	4	81	81	<0.2	2.9			<0.2	1.9		
					Middle	3.6	0.6	85	26.8	26.8	7.7	7.7	25.3	25.3	58.8	58.8	4.1	4.1	5.3	4	87	87	<0.2	1.6			<0.2	1.7		
						3.6	0.6	86	26.7	26.7	7.7	7.7	25.3	25.3	58.8	58.8	4.1	4.1	5.5	4	83	83	<0.2	1.7			<0.2	1.7		
					Bottom	6.2	0.5	112	26.1	26.1	7.7	7.7	27.2	27.2	55.5	55.6	3.9	3.9	15.0	22	104	104	<0.2	1.2			<0.2	1.2		
						6.2	0.5	112	26.1	26.1	7.7	7.7	27.1	27.1	55.6	55.6	3.9	3.9	15.3	21	100	100	<0.2	1.2			<0.2	1.2		
9-Aug-16	Fine	Moderate	11:49	6.8	Surface	1.0	0.6	306	29.4	29.4	7.9	7.9	18.2	18.2	91.3	91.1	6.3	6.3	1.5	3.4	3	6	76	82	821057	805817	<0.2	2.6	<0.2	2.0
						1.0	0.6	312	29.4	29.4	7.9	7.9	18.2	18.2	90.9	91.1	6.3	6.3	1.6	4	76	76	<0.2	2.6			<0.2	2.0		
					Middle	3.4	0.6	319	27.1	27.1	7.7	7.7	24.6	24.7	71.0	71.4	4.9	4.9	2.9	4	82	82	<0.2	2.5			<0.2	2.4		
						3.4	0.6	334	27.1	27.1	7.8	7.8	24.8	24.7	71.7	71.4	5.0	5.0	3.1	3	81	81	<0.2	2.4			<0.2	2.4		
					Bottom	5.8	0.4	80	25.9	25.9	7.7	7.7	28.3	28.3	61.3	62.7	4.3	4.3	5.7	10	87	87	<0.2	1.0			<0.2	1.1		
						5.8	0.4	86	25.9	25.9	7.7	7.7	28.3	28.3	64.1	62.7	4.4	4.4	5.8	10	87	87	<0.2	1.1			<0.2	1.1		
11-Aug-16	Fine	Moderate	14:37	6.4	Surface	1.0	0.4	261	27.7	27.7	7.7	7.8	21.0	21.0	73.7	73.8	5.2	5.2	0.6	1.0	4	3	84	85	821041	805834	<0.2	3.0	<0.2	2.5
						1.0	0.4	284	27.7	27.7	7.8	7.8	20.9	21.0	73.8	73.8	5.2	5.2	0.6	4	85	85	<0.2	3.3			<0.2	2.6		
					Middle	3.2	0.4	268	27.4	27.4	7.8	7.8	21.9	21.9	73.9	73.9	5.2	5.2	0.9	3	84	84	<0.2	2.6			<0.2	2.7		
						3.2	0.4	282	27.5	27.5	7.8	7.8	21.8	21.8	73.8	73.8	5.2	5.2	0.9	3	84	84	<0.2	2.7			<0.2	1.5		
					Bottom	5.4	0.4	217	25.8	25.8	7.8	7.8	28.0	28.0	56.6	56.9	3.9	3.9	1.5	3	86	86	<0.2	1.5			<0.2	1.6		
						5.4	0.4	231	25.8	25.8	7.8	7.8	27.9	28.0	57.2	56.9	4.0	4.0	1.4	3	86	86	<0.2	1.6			<0.2	1.6		
13-Aug-16	Cloudy	Moderate	15:09	6.0	Surface	1.0	0.5	275	28.1	28.2	7.8	7.8	20.1	20.1	81.4	81.4	5.7	5.7	2.4	2.7	2	4	81	92	821050	805822	<0.2	2.4	<0.2	1.6
						1.0	0.5	302	28.2	28.2	7.8	7.8	20.0	20.1	81.4	81.4	5.7	5.7	2.3	3	78	78	<0.2	2.3			<0.2	1.7		
					Middle	3.0	0.4	271	27.1	27.1	7.7	7.7	23.8	23.8	63.0	63.0	4.4	4.4	3.8	4	100	100	<0.2	1.7			<0.2	1.8		
						3.0	0.4	271	27.2	27.2	7.7	7.7	23.8	23.8	62.9	63.0	4.4	4.4	3.3	3	95	95	<0.2	1.8			<0.2	0.8		
					Bottom	5.0	0.3	204	26.0	26.0	7.7	7.7	28.3	28.4	50.5	50.5	3.5	3.5	2.3	5	98	98	<0.2	0.8			<0.2	0.7		
						5.0	0.3	222	25.9	25.9	7.7	7.7	28.4	28.4	50.5	50.5	3.5	3.5	2.2	5	98	98	<0.2	0.7			<0.2	0.7		
16-Aug-16	Cloudy	Moderate	17:11	6.0	Surface	1.0	0.4	251	26.9	27.0	7.7	7.7	24.0	24.0	54.7	54.7	3.8	3.8	4.1	6.9	4	7	82	86	821066	805824	<0.2	2.0	<0.2	2.5
						1.0	0.4	271	27.0	27.0	7.7	7.7	23.9	24.0	54.7	54.7	3.8	3.8	4.1	4	83	83	<0.2	2.1			<0.2	2.1		
					Middle	3.0	0.4	265	26.4	26.4	7.7	7.7	25.5	25.4	54.7	54.6	3.8	3.8	5.6	5	86	86	<0.2	2.1			<0.2	3.0		
						3.0	0.4	276	26.8	26.8	7.7	7.7	25.3	25.4	54.4	54.6	3.8	3.8	5.4	5	87	87	<0.2	3.0			<0.2	2.9		
					Bottom	5.0	0.3	261	26.7	26.7	7.7	7.7	26.3	26.4	54.7	55.0	3.8	3.8	11.2	11	88	88	<0.2	2.9			<0.2	3.0		
						5.0	0.4	284	26.2	26.2	7.7	7.7	26.5	26.4	55.3	55.0	3.8	3.8	11.2	10	90	90	<0.2	3.0			<0.2	3.0		
18-Aug-16	Rough	Cloudy	18:25	6.0	Surface	1.0	1.0	235	26.9	26.9	7.6	7.6	23.8	23.8	64.5	64.5	4.5	4.5	14.5	22.1	19	28	82	82	821070	805809	<0.2	2.2	<0.2	2.2
						1.0	1.1	253	26.9	26.9	7.6	7.6	23.8	23.8	64.4	64.5	4.5	4.5	14.7	18	86	86	<0.2	2.2			<0.2	2.0		
					Middle	3.0	1.0	239	26.9	26.9	7.6	7.6	23.9	24.0	63.8	63.8	4.5	4.5	21.3	19	79	79	<0.2	2.0			<0.2	2.3		
						3.0	1.0	250	26.9	26.9	7.6	7.6	24.0	24.1	63.8	64.4	4.5	4.5	21.3	20	81	81	<0.2	2.3			<0.2	2.3		
					Bottom	5.0	0.9	235	26.8	26.8	7.6	7.6	24.1	24.1	64.4	64.4	4.5	4.5	30.6	47	80	80	<0.2	2.3			<0.2	1.9		
						5.0	0.9	235	26.9	26.9	7.6	7.6	24.0	24.1	64.4	64.4	4.5	4.5	30.2	47	81	81	<0.2	1.9			<0.2	1.9		
20-Aug-16	Sunny	Moderate	08:42	7.3	Surface	1.0	0.8	72	27.8	27.7	7.6	7.6	22.1	21.9	70.8	71.1	4.9	4.9	3.1	15.6	4	10	85	88	821068	805833	<0.2	3.6	<0.2	2.7
						1.0	0.8	75	27.5	27.5	7.6	7.6	21.7	21.9	71.3	71.1	5.0	5.0	3.2	2	84	84	<0.2	3.4			<0.2	2.7		
					Middle	3.7	0.7	51	27.6	27.6	7.7	7.7	23.1	23.2	70.5	70.6	4.9	4.9	6.7	3	89	89	<0.2	2.6			<0.2	1.9		
						3.7	0.8	52	27.5	27.5	7.7	7.7	23.2	23.2	70.6	70.6	4.9	4.9	6.9	3	87	87	<0.2	2.7			<0.2	1.8		
					Bottom	6.3	0.6	62	27.1	27.1	7.7	7.7	25.7	25.7	71.6	71.8	4.9	4.9	36.3	23	92	92	<0.2	1.9			<0.2	1.8		
						6.3	0.6	66	27.2	27.2	7.7	7.7	25.6	25.7	71.9	71.8	4.9	4.9	37.3	23	91	91	<0.2	1.8			<0.2	1.8		
23-Aug-16	Sunny	Moderate	10:55	7.0	Surface	1.0	0.7	133	28.7	28.7	7.7	7.7	18.8	18.8	71.6	71.6	5.0	5.0	3.6	29.8	3	19	84	86	821048	805829	<0.2	2.6	<0.2	2.0
						1.0	0.7	134	28.7	28.7	7.7	7.7	18.7	18.8	71.6	71.6	5.0	5.0	3.9	4	81	81	<0.2	3.1			<0.2	1.8		
					Middle	3.5	0.8	74	28.2	28.3	7.7	7.7	22.4	22.4	70.5	70.5	4.8	4.8	6.8	6	84	84	<0.2	1.8			<0.2	1.8		
						3.5	0.8	80	28.3	28.3	7.7	7.7	22.4	22.4	70.5	70.5	4.8	4.8	6.5	5	87	87	<0.2	1.8			<0.2	1.3		
					Bottom	6.0																								

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM7 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	19:10	7.1	Surface	1.0	0.7	227	28.0	28.0	7.6	7.6	18.3	18.1	71.4	71.4	5.1	5.0	12.2	15	81	81	<0.2	<0.2	3.2	3.0			
						1.0	0.7	234	28.0	28.0	7.6	7.6	18.0	18.1	71.4	71.4	5.1	5.0	12.3	14	80	80	<0.2	<0.2	3.2	3.0			
					Middle	3.6	0.6	243	27.6	27.6	7.6	7.6	20.7	20.7	68.9	68.9	4.8	4.8	21.9	19	99	99	<0.2	<0.2	2.9	2.8			
						3.6	0.7	252	27.6	27.6	7.6	7.6	20.7	20.7	68.9	68.9	4.8	4.8	22.0	19	96	96	<0.2	<0.2	2.8	2.8			
					Bottom	6.1	0.6	251	27.6	27.6	7.6	7.6	20.9	20.9	69.8	69.9	4.9	4.9	28.5	24	89	89	<0.2	<0.2	2.8	2.8			
						6.1	0.6	264	27.6	27.6	7.6	7.6	20.9	20.9	70.0	69.9	4.9	4.9	28.6	23	92	92	<0.2	<0.2	2.9	2.9			
6-Aug-16	Fine	Moderate	09:51	8.6	Surface	1.0	0.5	186	28.3	28.3	7.6	7.6	18.3	18.3	68.0	67.9	4.8	4.5	2.1	4	80	80	<0.2	<0.2	3.3	2.3			
						1.0	0.6	194	28.3	28.3	7.6	7.6	18.3	18.3	67.8	67.9	4.8	4.5	2.1	3	82	82	<0.2	<0.2	3.3	2.3			
					Middle	4.3	0.8	67	27.0	27.0	7.7	7.7	24.6	24.6	61.0	61.0	4.2	4.2	6.7	3	82	82	<0.2	<0.2	2.0	2.0			
						4.3	0.8	73	27.0	27.0	7.7	7.7	24.6	24.6	61.0	61.0	4.2	4.2	6.9	2	83	83	<0.2	<0.2	2.0	2.0			
					Bottom	7.6	0.6	55	26.5	26.4	7.7	7.7	26.6	26.6	59.8	59.9	4.1	4.2	18.4	20	101	101	<0.2	<0.2	1.6	1.6			
						7.6	0.6	60	26.3	26.3	7.7	7.7	26.6	26.6	60.0	60.0	4.2	4.2	18.4	20	98	98	<0.2	<0.2	1.4	1.4			
9-Aug-16	Fine	Moderate	11:57	8.2	Surface	1.0	0.5	154	29.7	29.7	7.9	7.9	15.6	15.6	98.7	98.4	6.9	6.6	1.6	5	75	75	<0.2	<0.2	3.0	2.5			
						1.0	0.5	160	29.7	29.7	7.9	7.9	15.5	15.6	98.1	98.4	6.8	6.6	1.4	5	77	77	<0.2	<0.2	2.9	2.5			
					Middle	4.1	0.5	149	29.5	29.5	7.8	7.8	16.9	16.9	91.7	91.4	6.4	6.6	1.7	3	82	82	<0.2	<0.2	3.0	2.5			
						4.1	0.5	150	29.5	29.5	7.8	7.8	16.8	16.9	91.1	91.4	6.3	6.6	1.9	4	81	81	<0.2	<0.2	3.0	2.5			
					Bottom	7.2	0.5	68	26.0	26.1	7.7	7.7	28.1	28.1	63.4	64.3	4.4	4.5	8.3	8	86	86	<0.2	<0.2	1.5	1.5			
						7.2	0.5	72	26.1	26.1	7.7	7.7	28.1	28.1	65.2	64.3	4.5	4.5	7.9	8	87	87	<0.2	<0.2	1.6	1.6			
11-Aug-16	Fine	Moderate	14:52	7.7	Surface	1.0	0.2	241	27.9	27.9	7.7	7.7	21.3	21.3	69.7	69.7	4.9	4.9	0.8	2	80	80	<0.2	<0.2	2.8	2.1			
						1.0	0.2	252	27.9	27.9	7.7	7.7	21.3	21.3	69.7	69.7	4.9	4.9	0.8	2	80	80	<0.2	<0.2	2.7	2.1			
					Middle	3.9	0.2	257	27.3	27.3	7.8	7.8	23.1	23.1	69.1	69.1	4.8	4.8	0.7	3	88	88	<0.2	<0.2	1.7	1.7			
						3.9	0.3	260	27.3	27.3	7.8	7.8	23.1	23.1	69.1	69.1	4.8	4.8	0.7	4	90	90	<0.2	<0.2	1.9	1.9			
					Bottom	6.7	0.2	122	24.9	24.9	7.7	7.7	30.9	30.9	44.4	44.8	3.1	3.1	5.3	4	92	92	<0.2	<0.2	1.9	1.9			
						6.7	0.2	122	24.9	24.9	7.7	7.7	30.9	30.9	45.1	44.8	3.1	3.1	5.3	5	92	92	<0.2	<0.2	1.5	1.5			
13-Aug-16	Cloudy	Moderate	15:02	7.3	Surface	1.0	0.5	269	27.3	27.3	7.7	7.7	23.3	23.3	65.7	65.7	4.6	4.3	2.3	3	85	85	<0.2	<0.2	1.9	1.5			
						1.0	0.5	294	27.3	27.3	7.7	7.7	23.2	23.3	65.7	65.7	4.6	4.3	2.1	3	80	80	<0.2	<0.2	1.8	1.5			
					Middle	3.7	0.4	263	26.7	26.7	7.7	7.7	26.0	26.0	56.3	56.3	3.9	3.9	1.6	3	91	91	<0.2	<0.2	1.5	1.5			
						3.7	0.4	270	26.7	26.7	7.7	7.7	26.0	26.0	56.2	56.3	3.9	3.9	1.4	3	92	92	<0.2	<0.2	1.5	1.5			
					Bottom	6.3	0.3	205	25.8	25.8	7.7	7.7	29.4	29.4	49.1	49.3	3.4	3.4	1.6	6	98	98	<0.2	<0.2	1.1	1.1			
						6.3	0.3	205	25.8	25.8	7.7	7.7	29.4	29.4	49.4	49.3	3.4	3.4	1.7	6	97	97	<0.2	<0.2	1.3	1.3			
16-Aug-16	Cloudy	Moderate	17:04	7.2	Surface	1.0	0.4	241	26.8	27.1	7.6	7.6	22.4	22.5	54.2	54.0	3.8	3.8	4.3	4	82	82	<0.2	<0.2	3.4	2.7			
						1.0	0.4	264	27.3	27.3	7.6	7.6	22.5	22.5	53.8	54.0	3.8	3.8	4.1	3	83	83	<0.2	<0.2	3.6	2.7			
					Middle	3.6	0.4	235	26.4	26.7	7.7	7.7	25.5	25.4	55.8	55.6	3.9	3.8	8.7	9	83	83	<0.2	<0.2	3.1	3.1			
						3.6	0.4	239	26.9	26.9	7.7	7.7	25.2	25.4	55.4	55.6	3.8	3.8	8.5	9	85	85	<0.2	<0.2	3.0	3.0			
					Bottom	6.2	0.3	218	26.8	26.6	7.7	7.7	25.6	25.8	58.7	59.0	4.1	4.1	10.7	18	94	94	<0.2	<0.2	1.4	1.4			
						6.2	0.3	229	26.4	26.4	7.7	7.7	25.9	25.8	59.2	59.0	4.1	4.1	10.8	17	96	96	<0.2	<0.2	1.8	1.8			
18-Aug-16	Rough	Cloudy	18:10	6.9	Surface	1.0	1.2	227	27.1	27.2	7.6	7.6	23.1	23.1	63.6	63.6	4.4	4.4	10.0	15	80	80	<0.2	<0.2	2.2	2.2			
						1.0	1.3	242	27.2	27.2	7.6	7.6	23.0	23.1	63.5	63.6	4.4	4.4	9.9	14	80	80	<0.2	<0.2	2.1	2.1			
					Middle	3.5	1.1	235	27.1	27.1	7.6	7.6	23.5	23.5	63.1	63.1	4.4	4.4	19.2	26	87	87	<0.2	<0.2	2.3	2.2			
						3.5	1.2	236	27.1	27.1	7.6	7.6	23.5	23.5	63.1	63.1	4.4	4.4	20.2	25	82	82	<0.2	<0.2	2.0	2.0			
					Bottom	5.9	0.8	235	27.1	27.1	7.6	7.6	23.5	23.5	64.0	64.6	4.5	4.5	24.8	36	88	88	<0.2	<0.2	2.3	2.3			
						5.9	0.8	242	27.1	27.1	7.6	7.6	23.5	23.5	65.2	64.6	4.5	4.5	27.0	37	90	90	<0.2	<0.2	2.3	2.3			
20-Aug-16	Sunny	Moderate	08:50	8.8	Surface	1.0	0.6	82	28.1	28.1	7.6	7.6	19.7	19.7	68.4	68.5	4.8	4.9	3.0	3	81	81	<0.2	<0.2	3.2	2.6			
						1.0	0.6	82	28.1	28.1	7.6	7.6	19.6	19.7	68.6	68.5	4.8	4.8	3.1	3	83	83	<0.2	<0.2	3.8	2.6			
					Middle	4.4	0.7	41	27.2	27.4	7.7	7.7	24.2	24.2	71.6	71.4	5.0	5.0	8.7	6	87	87	<0.2	<0.2	2.6	2.1			
						4.4	0.7	41	27.6	27.6	7.7	7.7	24.1	24.1	71.1	71.4	4.9	4.9	9.3	7	90	90	<0.2	<0.2	2.1	2.1			
					Bottom	7.8	0.5	87	27.1	27.1	7.7	7.7	25.8	25.8	71.8	72.0	4.9	5.0	75.8	21	90	90	<0.2	<0.2	2.2	2.2			
						7.8	0.5	89	27.1	27.1	7.7	7.7	25.8	25.8	72.1	72.0	5.0	5.0	70.4	23	91	91	<0.2	<0.2	1.7	1.7			
23-Aug-16	Sunny	Moderate	11:04	8.7	Surface	1.0	0.5	187	28.8	28.8	7.6	7.6	17.7	17.7	72.0	72.1	5.0	5.0	3.7	4	79	79	<0.2	<0.2	2.8	2.1			
						1.0	0.5	191	28.8	28.8	7.6	7.6	17.7	17.7	72.2	72.1	5.0	5.0	3.8	4	78	78	<0.2	<0.2	2.8	2.1			
					Middle	4.4	0.7	63	28.5	28.5	7.7	7.7	21.2	21.3	73.1	73.1	5.0	5.0	5.9	4	80	80	<0.2	<0.2	2.1	2.0			
						4.4	0.7	68	28.5	28.5	7.7	7.7	21.3	21.3	73.0	73.1	5.0	5.0	6.6	6	80	80	<0.2	<0.2	2.0	2.0			
					Bottom	7.7	0.6	69	27.9	27.9	7.8	7.8	25.4	25.4	70.0	70.1	4.8	4.8	75.9	151	94	94	<0.2	<0.2	1.3	1.3			
						7.7	0.7	71	27.9	27.9	7.8	7.8	25.4	25.4	70.1	70.1	4.8	4.8	76.8	142	93	93	<0.2	<0.2	1.3	1.3			
25-Aug-16	Sunny	Moderate	13:48</																										

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM8 during Mid-Flood Tide

Date	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 (mg/L)		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	Value	Value	Value	Value	Value			Value	Value	Value	Value	Value	Value
4-Aug-16	Cloudy	Moderate	19:43	7.6	Surface	1.0	0.7	196	26.6	26.6	7.5	7.5	16.4	16.7	71.4	71.4	5.2	5.1	7.2	7	7	85	88	821712	807843	<0.2	<0.2	2.8	2.9		
						1.0	0.7	214	26.6	26.6	7.5	7.5	16.9	16.7	71.4	71.4	5.2	5.1	7.2	8	8	86	88	821712	807843	<0.2	<0.2	2.7	2.9		
					Middle	3.8	0.5	219	26.1	26.1	7.5	7.5	19.3	19.3	69.2	69.2	5.0	5.1	14.8	11	11	87	88	821712	807843	<0.2	<0.2	3.1	2.9		
						3.8	0.5	222	26.1	26.1	7.5	7.5	19.3	19.3	69.3	69.3	5.0	5.1	15.0	11	11	89	88	821712	807843	<0.2	<0.2	3.0	2.9		
					Bottom	6.6	0.5	231	25.9	25.9	7.5	7.5	21.0	21.0	71.0	71.0	5.1	5.1	23.2	10	10	90	88	821712	807843	<0.2	<0.2	3.0	2.9		
						6.6	0.5	250	25.9	25.9	7.5	7.5	21.0	21.0	71.0	71.0	5.1	5.1	23.2	11	11	90	88	821712	807843	<0.2	<0.2	3.0	2.9		
6-Aug-16	Sunny	Moderate	09:24	8.8	Surface	1.0	0.4	224	26.8	26.8	7.5	7.5	17.8	17.8	65.5	65.5	4.8	4.6	4.1	4	4	85	88	821685	807828	<0.2	<0.2	3.2	3.1		
						1.0	0.4	239	26.8	26.8	7.5	7.5	17.8	17.8	65.5	65.5	4.7	4.6	4.0	3	3	83	88	821685	807828	<0.2	<0.2	3.4	3.1		
					Middle	4.4	0.4	191	26.3	26.3	7.5	7.5	20.0	20.0	62.4	62.4	4.5	4.5	6.9	3	3	88	88	821685	807828	<0.2	<0.2	3.3	3.1		
						4.4	0.4	195	26.3	26.3	7.5	7.5	20.0	20.0	62.4	62.4	4.5	4.5	7.1	4	4	90	88	821685	807828	<0.2	<0.2	2.8	3.1		
					Bottom	7.8	0.3	212	26.1	26.1	7.5	7.5	21.6	21.6	63.9	63.9	4.6	4.6	9.7	4	4	91	88	821685	807828	<0.2	<0.2	2.8	3.1		
						7.8	0.3	212	26.0	26.0	7.5	7.5	21.6	21.6	63.9	63.9	4.6	4.6	9.7	5	5	92	88	821685	807828	<0.2	<0.2	3.2	3.1		
9-Aug-16	Fine	Moderate	10:54	8.6	Surface	1.0	0.3	232	27.7	27.7	7.7	7.7	17.3	17.3	79.8	79.8	5.7	5.5	2.2	4	4	84	89	821688	807820	<0.2	<0.2	3.3	2.9		
						1.0	0.3	241	27.7	27.7	7.7	7.7	17.3	17.3	79.7	79.7	5.7	5.5	2.2	4	4	85	89	821688	807820	<0.2	<0.2	3.4	2.9		
					Middle	4.3	0.3	225	27.3	27.3	7.7	7.7	19.2	19.2	74.8	74.8	5.3	5.3	2.7	4	4	89	89	821688	807820	<0.2	<0.2	3.0	2.9		
						4.3	0.3	246	27.3	27.3	7.7	7.7	19.2	19.2	74.7	74.8	5.3	5.3	2.7	3	3	90	89	821688	807820	<0.2	<0.2	3.2	2.9		
					Bottom	7.6	0.3	133	24.7	24.7	7.6	7.6	27.2	27.2	58.0	58.0	4.1	4.1	9.8	4	4	93	89	821688	807820	<0.2	<0.2	2.2	2.9		
						7.6	0.3	141	24.7	24.7	7.6	7.6	27.2	27.2	58.0	58.0	4.1	4.1	9.8	4	4	92	89	821688	807820	<0.2	<0.2	2.3	2.9		
11-Aug-16	Fine	Moderate	14:12	7.3	Surface	1.0	0.2	214	26.0	26.0	7.7	7.7	23.0	23.1	69.2	69.1	4.9	4.5	1.1	4	<2	85	88	821688	807857	<0.2	<0.2	2.8	1.9		
						1.0	0.2	231	26.0	26.0	7.7	7.7	23.1	23.1	69.0	69.1	4.9	4.5	1.1	4	<2	87	88	821688	807857	<0.2	<0.2	2.1	1.9		
					Middle	3.7	0.2	202	25.6	25.6	7.7	7.7	25.0	25.1	59.3	58.7	4.2	4.1	1.8	4	<2	85	88	821688	807857	<0.2	<0.2	1.7	1.9		
						3.7	0.2	215	25.5	25.5	7.7	7.7	25.2	25.1	58.1	58.7	4.1	4.1	1.8	4	<2	89	88	821688	807857	<0.2	<0.2	1.8	1.9		
					Bottom	6.3	0.3	142	23.5	23.5	7.6	7.6	30.3	30.4	41.8	42.4	3.0	3.1	7.7	8	8	90	88	821688	807857	<0.2	<0.2	1.5	1.9		
						6.3	0.3	152	23.5	23.5	7.6	7.6	30.4	30.4	42.9	42.4	3.1	3.1	7.7	10	10	92	88	821688	807857	<0.2	<0.2	1.7	1.9		
13-Aug-16	Fine	Moderate	15:41	7.8	Surface	1.0	0.3	211	26.7	26.7	7.8	7.8	19.0	18.9	80.0	79.8	5.8	5.0	2.3	4	4	82	86	821688	807849	<0.2	<0.2	2.9	2.6		
						1.0	0.4	224	26.7	26.7	7.8	7.8	18.8	18.9	79.6	79.8	5.7	5.0	2.4	4	4	84	86	821688	807849	<0.2	<0.2	2.8	2.6		
					Middle	3.9	0.3	214	25.6	25.6	7.7	7.7	23.1	23.1	59.5	59.2	4.3	4.2	1.9	4	4	83	86	821688	807849	<0.2	<0.2	2.7	2.6		
						3.9	0.3	229	25.6	25.6	7.7	7.7	23.1	23.1	58.8	59.2	4.2	4.2	2.1	3	3	87	86	821688	807849	<0.2	<0.2	2.6	2.6		
					Bottom	6.8	0.1	183	24.3	24.3	7.7	7.7	29.1	29.1	50.5	50.6	3.6	3.6	4.3	4	4	90	86	821688	807849	<0.2	<0.2	2.2	2.6		
						6.8	0.1	188	24.3	24.3	7.7	7.7	29.0	29.1	50.7	50.6	3.6	3.6	4.3	4	4	87	86	821688	807849	<0.2	<0.2	2.5	2.6		
16-Aug-16	Cloudy	Moderate	17:41	8.0	Surface	1.0	0.4	191	25.7	25.7	7.8	7.8	19.4	19.4	60.3	60.3	4.4	4.4	2.6	3	<2	84	89	821680	807838	<0.2	<0.2	2.6	2.7		
						1.0	0.4	197	25.7	25.7	7.8	7.8	19.4	19.4	60.3	60.3	4.4	4.4	2.6	3	<2	86	89	821680	807838	<0.2	<0.2	2.6	2.7		
					Middle	4.0	0.4	228	25.1	25.1	7.8	7.8	22.7	22.7	59.5	59.6	4.3	4.3	3.0	3	3	90	89	821680	807838	<0.2	<0.2	3.2	2.7		
						4.0	0.4	241	25.1	25.1	7.8	7.8	22.7	22.7	59.6	59.6	4.3	4.3	3.0	3	3	90	89	821680	807838	<0.2	<0.2	3.3	2.7		
					Bottom	7.0	0.3	246	25.1	25.1	7.8	7.8	23.1	23.1	61.9	62.0	4.5	4.5	3.7	4	4	91	89	821680	807838	<0.2	<0.2	2.2	2.7		
						7.0	0.4	266	25.1	25.1	7.8	7.8	23.1	23.1	62.0	62.0	4.5	4.5	3.7	4	4	92	89	821680	807838	<0.2	<0.2	2.1	2.7		
18-Aug-16	Cloudy	Rough	18:44	7.6	Surface	1.0	0.6	216	25.7	25.7	7.7	7.7	21.6	21.6	63.6	63.6	4.6	4.6	7.1	7	7	83	89	821704	807854	<0.2	<0.2	2.4	2.3		
						1.0	0.6	231	25.7	25.7	7.7	7.7	21.6	21.6	63.5	63.6	4.6	4.6	7.1	7	7	82	89	821704	807854	<0.2	<0.2	2.5	2.3		
					Middle	3.8	0.5	225	25.5	25.5	7.7	7.7	22.8	22.8	63.3	63.3	4.5	4.5	9.1	6	6	90	89	821704	807854	<0.2	<0.2	2.4	2.3		
						3.8	0.5	229	25.5	25.5	7.7	7.7	22.8	22.8	63.3	63.3	4.6	4.6	9.2	6	6	91	89	821704	807854	<0.2	<0.2	2.6	2.3		
					Bottom	6.6	0.4	234	25.4	25.4	7.7	7.7	24.0	24.0	64.8	64.8	4.6	4.6	10.8	9	9	93	89	821704	807854	<0.2	<0.2	2.0	2.3		
						6.6	0.4	251	25.4	25.4	7.7	7.7	24.0	24.0	64.8	64.8	4.6	4.6	10.8	9	9	93	89	821704	807854	<0.2	<0.2	1.8	2.3		
20-Aug-16	Moderate	Fine	07:50	8.8	Surface	1.0	0.4	288	26.3	26.3	7.6	7.6	19.2	19.2	67.0	67.0	4.8	4.9	3.0	3	2	87	90	821702	807820	<0.2	<0.2	2.1	3.3		
						1.0	0.4	306	26.3	26.3	7.6	7.6	19.2	19.2	67.0	67.0	4.8	4.9	3.0	3	2	85	90	821702	807820	<0.2	<0.2	3.7	3.3		
					Middle	4.4	0.5	302	26.1	26.1	7.6	7.6	20.9	20.9	68.0	68.0	4.9	4.9	4.7	3	3	91	90	821702	807820	<0.2	<0.2	3.4	3.3		
						4.4	0.5	306	26.1	26.1	7.6	7.6	20.9	20.9	67.9	68.0	4.9	4.9	4.7	3	3	90	90	821702	807820	<0.2	<0.2	3.8	3.3		
					Bottom	7.8	0.3	223	25.9	25.9	7.6	7.6	22.4	22.4	68.9	69.0	4.9	4.9	5.9	3											

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM9 during Mid-Flood Tide

Date	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 (mg/L)		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	
4-Aug-16	Cloudy	Moderate	19:54	6.6	Surface	1.0	0.4	233	26.3	26.3	7.5	7.5	19.3	19.3	70.9	70.9	5.1	5.1	9.8	10	85	85	<0.2	<0.2	5.5	5.5	822098	808792	<0.2	<0.2	5.4	5.4
						1.0	0.4	247	26.3	26.1	7.5	7.5	19.3	19.3	70.9	70.9	5.1	5.1	9.8	11	85	85	4.9	4.9								
					3.3	0.4	251	26.1	26.1	7.5	7.5	20.3	20.3	71.0	71.0	5.1	5.1	12.2	11	89	89	4.2	4.2									
					3.3	0.4	272	26.1	25.6	7.5	7.6	20.3	22.7	71.1	73.1	5.1	5.3	12.6	10	88	92	4.6	4.6									
6-Aug-16	Sunny	Moderate	09:13	7.7	Surface	1.0	0.3	225	26.8	26.8	7.5	7.5	17.9	17.9	66.4	66.4	4.8	4.8	4.2	3	84	84	<0.2	<0.2	4.2	4.2	822111	808811	<0.2	<0.2	4.4	4.4
						1.0	0.4	225	26.8	26.5	7.5	7.5	17.9	17.9	66.4	64.1	4.8	4.6	4.2	4	87	88	4.0	4.0								
					3.9	0.4	276	26.5	26.5	7.5	7.5	19.4	19.4	64.1	64.1	4.6	4.6	4.7	5	90	90	3.9	3.9									
					3.9	0.4	299	26.5	26.0	7.5	7.5	19.4	22.0	64.1	63.7	4.6	4.6	4.7	5	91	93	4.0	4.0									
9-Aug-16	Fine	Moderate	10:46	7.3	Surface	1.0	0.4	256	28.2	28.2	7.7	7.7	15.2	15.2	87.8	87.8	6.3	6.3	2.3	3	85	85	<0.2	<0.2	3.4	3.4	822104	808803	<0.2	<0.2	3.4	3.4
						1.0	0.4	264	28.2	27.5	7.7	7.7	15.2	17.9	87.8	80.9	6.3	5.8	2.4	3	85	89	3.3	3.3								
					3.7	0.4	272	27.5	27.5	7.7	7.7	17.9	17.9	80.9	80.9	5.8	5.8	2.2	2	89	89	3.4	3.4									
					3.7	0.4	286	27.5	26.6	7.7	7.7	17.9	22.1	80.8	71.7	5.8	5.1	2.2	2	89	91	3.3	3.3									
11-Aug-16	Fine	Moderate	14:01	7.2	Surface	1.0	0.1	159	26.5	26.5	7.7	7.7	18.5	18.5	82.1	82.0	5.9	5.9	0.7	<2	82	84	<0.2	<0.2	3.4	3.4	822088	808802	<0.2	<0.2	3.4	3.4
						1.0	0.1	174	26.5	26.0	7.7	7.7	18.5	22.9	81.8	69.1	5.9	4.9	0.7	<2	84	85	3.3	3.3								
					3.6	0.1	146	26.0	26.0	7.7	7.7	22.9	22.9	69.2	69.1	4.9	4.9	1.1	<2	84	84	3.4	3.4									
					3.6	0.1	146	26.0	24.0	7.7	7.7	22.9	29.2	68.9	47.0	4.9	3.3	1.1	2	84	89	3.3	3.3									
13-Aug-16	Fine	Moderate	15:50	6.3	Surface	1.0	0.1	187	26.9	27.0	7.8	7.8	19.4	19.4	88.9	88.6	6.4	6.4	2.0	4	80	82	<0.2	<0.2	3.0	3.0	822097	808805	<0.2	<0.2	3.0	3.0
						1.0	0.1	190	27.0	26.2	7.8	7.8	19.4	21.9	88.3	76.5	6.3	5.5	2.0	4	82	83	2.8	2.8								
					3.2	0.1	224	26.2	26.2	7.8	7.8	21.9	21.9	76.3	76.5	5.5	5.5	1.6	3	83	84	2.9	2.9									
					3.2	0.2	229	26.2	25.6	7.8	7.8	21.9	23.7	76.7	64.1	5.5	4.6	1.7	4	84	88	2.9	2.9									
16-Aug-16	Cloudy	Moderate	17:50	6.7	Surface	1.0	0.3	238	25.8	25.8	7.8	7.8	19.2	19.2	72.5	72.4	5.3	5.3	2.3	2	85	86	<0.2	<0.2	3.0	3.0	822081	808791	<0.2	<0.2	2.6	2.6
						1.0	0.3	245	25.8	25.4	7.8	7.8	19.2	21.9	72.3	69.3	5.3	5.0	2.3	2	86	89	2.7	2.7								
					3.4	0.4	281	25.4	25.4	7.8	7.8	21.9	21.9	69.3	69.3	5.0	5.0	3.0	3	89	90	2.5	2.5									
					3.4	0.4	285	25.4	24.8	7.8	7.8	21.9	24.8	69.3	67.1	5.0	4.8	2.8	4	90	93	2.5	2.5									
18-Aug-16	Cloudy	Rough	18:55	7.1	Surface	1.0	0.4	243	25.8	25.8	7.7	7.7	22.1	22.1	72.5	72.5	5.2	5.2	5.1	6	84	85	<0.2	<0.2	2.6	2.6	822110	808796	<0.2	<0.2	2.6	2.6
						1.0	0.5	267	25.8	25.6	7.7	7.7	22.1	23.1	72.5	70.9	5.2	5.1	5.1	7	85	89	2.2	2.2								
					3.6	0.5	257	25.6	25.6	7.7	7.7	23.1	23.1	70.9	71.0	5.1	5.1	6.4	6	89	89	2.4	2.4									
					3.6	0.5	273	25.6	25.3	7.7	7.7	23.1	24.7	71.0	72.8	5.1	5.2	6.4	6	89	92	2.2	2.2									
20-Aug-16	Moderate	Fine	07:41	7.8	Surface	1.0	0.4	247	26.3	26.3	7.6	7.6	19.1	19.1	69.0	69.0	5.0	5.0	4.4	3	83	85	<0.2	<0.2	3.9	3.9	822112	808823	<0.2	<0.2	3.7	3.7
						1.0	0.4	255	26.3	26.1	7.6	7.6	19.1	21.0	69.0	69.3	5.0	5.0	4.5	2	85	89	3.4	3.4								
					3.9	0.5	278	26.1	26.1	7.6	7.6	21.0	21.0	69.2	69.3	5.0	5.0	7.2	4	89	93	3.4	3.4									
					3.9	0.5	288	26.1	25.9	7.6	7.7	21.0	22.4	69.3	69.2	5.0	5.0	7.3	4	89	93	3.4	3.4									
23-Aug-16	Sunny	Moderate	10:13	7.5	Surface	1.0	0.4	266	27.7	27.7	7.6	7.6	16.1	16.1	71.5	71.5	5.2	5.2	3.5	4	83	85	<0.2	<0.2	3.6	3.6	822097	808809	<0.2	<0.2	3.6	3.6
						1.0	0.4	277	27.7	26.9	7.6	7.7	16.1	19.6	71.5	69.3	5.2	5.0	3.5	4	85	91	2.9	2.9								
					3.8	0.9	252	26.9	26.9	7.7	7.7	19.6	19.6	69.3	69.3	5.0	5.0	6.2	4	91	90	3.1	3.1									
					3.8	0.9	265	26.9	26.7	7.7	7.7	19.6	21.4	69.3	68.7	5.0	4.9	6.3	4	90	93	3.1	3.1									
25-Aug-16	Fine	Moderate	12:50	7.3	Surface	1.0	0.4	174	29.9	29.9	7.7	7.7	16.3	16.3	74.7	74.7	5.2	5.2	3.4	5	83	85	<0.2	<0.2	3.8	3.8	822113	808809	<0.2	<0.2	3.8	3.8
						1.0	0.4	185	29.9	29.3	7.7	7.8	16.3	18.8	74.6	69.3	5.2	4.8	3.5	4	85	90	3.5	3.5								
					3.7	0.9	244	29.2	29.3	7.8	7.8	18.8	18.8	69.3	69.3	4.8	4.8	4.8	6	90	90	3.6	3.6									
					3.7	1.0	267	29.3	28.4	7.8	7.8	18.8	21.9	69.2	63.9	4.8	4.4	4.8	6	90	93	3.6	3.6									
27-Aug-16	Cloudy	Moderate	15:12	7.0	Surface	1.0	0.3	198	29.8	29.8	7.9	7.9	18.1	18.1	93.7	93.7	6.4	6.4	4.0	3	82	83	<0.2	<0.2	3.3	3.3	822083	808811	<0.2	<0.2	3.1	3.1
						1.0	0.4	205	29.8	29.4	7.9	7.9	18.1	19.4	93.6	87.1	6.4	6.0	4.1	4	83	89	2.9	2.9								
					3.5	0.3	224	29.4	29.4	7.9	7.9	19.4	19.4	87.1	87.1	6.0	6.0	3.9	3	89	90	2.8	2.8									
					3.5	0.4	234	29.4	28.3	7.9	7.8	19.4	23.7	87.0	64.3	6.0	4.4	3.9	4	90	91	2.8	2.8									
30-Aug-16	Cloudy	Moderate	17:43	6.8	Surface	1.0	0.3	217	26.4	26.4	7.9	7.9	23.1	23.1	72.9	72.9	5.2	5.2	7.0	7	83	85	<0.2	<0.2	2.9	2.9	822101	808828	<0.2	<0.2	2.9	2.9
						1.0	0.3	234	26.4	26.2	7.9	8.0	23.1	24.3	72.9	72.8	5.2	5.1	7.0	5	85	91	2.7	2.7								
					3.4	0.4	282	26.2	26.2	8.0	8.0	24.3	24.3	72.8	72.8	5.1	5.1	9.4	7	91	90	2.4	2.4									
					3.4	0.4	286	26.2	26.0	8.0	8.0	24.2	25.7	72.8	73.4	5.1	5.2	9.6	6	90	92	2.4	2.4									
					Bottom	5.8	0.4	283	26.0	26.0	8.0	8.0	25.7	25.7	73.4	73.4	5.2	5.2	18.2	9	92	91	<0.2	<0.2	2.3	2.3			<0.2	<0.2	2.3	2.3
						5.8	0.4	293	25.6	25.6	7.6	7.6	22.7	22.7	73.3	73.2	5.3	5.3	24.5	12	92	91	<0.2	<0.2	4.9	4.9						
					5.6	0.4	293	25.6	25.6	7.6	7.6	22.7	22.7	73.3	73.2	5.3	5.3	24.4	12	91	91	<0.2	<0.2	4.9	4.9							
					5.6	0.4	293	25.6	26.0	7.5	7.5	22.0	22.0	63.7	63.7	4.6	4.6	10.6	4	93	93	<0.2	<0.2	4.2	4.2							

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 at IM10 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	20:06	7.3	Surface	1.0	0.4	259	26.1	26.1	7.5	7.5	20.0	20.0	71.6	71.6	5.2	8.6	8	8	83	88	822256	809845	<0.2	<0.2	3.7	3.4	
						1.0	0.5	281	26.1	26.1	7.5	7.5	20.0	20.0	71.6	71.6	5.2	8.6	9	8	84	88	822256	809845	<0.2	<0.2	3.5	3.4	
					Middle	3.7	0.5	283	25.9	25.9	7.5	7.5	20.8	20.8	71.6	71.5	5.2	11.6	8	8	89	88	822256	809845	<0.2	<0.2	3.1	3.4	
						3.7	0.6	296	25.9	25.9	7.5	7.5	20.8	20.8	71.5	71.5	5.2	11.7	7	7	90	88	822256	809845	<0.2	<0.2	3.1	3.4	
					Bottom	6.3	0.4	266	25.6	25.6	7.6	7.6	22.4	22.4	71.3	71.3	5.1	31.1	30	30	92	88	822256	809845	<0.2	<0.2	3.2	3.4	
						6.3	0.4	266	25.6	25.6	7.6	7.6	22.4	22.4	71.3	71.3	5.1	31.1	30	30	92	88	822256	809845	<0.2	<0.2	3.2	3.4	
6-Aug-16	Sunny	Moderate	09:01	8.7	Surface	1.0	0.5	283	26.7	26.7	7.5	7.5	18.5	18.5	68.1	68.1	4.9	4.2	5	5	83	88	822229	809839	<0.2	<0.2	3.6	3.3	
						1.0	0.5	285	26.7	26.7	7.5	7.5	18.5	18.5	68.1	68.1	4.9	4.3	3	3	85	88	822229	809839	<0.2	<0.2	3.8	3.3	
					Middle	4.4	0.4	276	26.0	26.0	7.5	7.5	22.2	22.2	63.6	63.7	4.6	17.0	18	18	89	88	822229	809839	<0.2	<0.2	3.1	3.3	
						4.4	0.4	276	26.0	26.0	7.5	7.5	22.2	22.2	63.7	63.7	4.6	17.1	18	18	89	88	822229	809839	<0.2	<0.2	3.3	3.3	
					Bottom	7.7	0.5	267	26.0	26.0	7.5	7.5	22.3	22.3	67.2	67.2	4.8	25.9	23	23	91	88	822229	809839	<0.2	<0.2	3.1	3.3	
						7.7	0.5	271	26.0	26.0	7.5	7.5	22.3	22.3	67.2	67.2	4.8	25.9	23	23	92	88	822229	809839	<0.2	<0.2	3.0	3.3	
9-Aug-16	Fine	Moderate	10:37	8.2	Surface	1.0	0.4	248	28.0	28.0	7.8	7.8	16.3	16.3	88.2	88.2	6.3	2.3	2	2	85	89	822236	809840	<0.2	<0.2	2.8	3.0	
						1.0	0.4	251	28.0	28.0	7.8	7.8	16.3	16.3	88.2	88.2	6.3	2.3	2	2	84	89	822236	809840	<0.2	<0.2	2.8	3.0	
					Middle	4.1	0.5	280	27.4	27.4	7.7	7.7	18.9	18.9	81.6	81.6	5.8	2.6	2	2	90	89	822236	809840	<0.2	<0.2	3.1	3.0	
						4.1	0.5	301	27.4	27.4	7.7	7.7	18.9	18.9	81.5	81.6	5.8	2.7	3	3	90	89	822236	809840	<0.2	<0.2	2.9	3.0	
					Bottom	7.2	0.4	273	26.0	26.0	7.6	7.6	24.1	24.1	68.7	68.7	4.9	14.1	13	13	92	89	822236	809840	<0.2	<0.2	3.0	3.3	
						7.2	0.5	281	26.0	26.0	7.6	7.6	24.1	24.1	68.7	68.7	4.9	14.1	13	13	93	89	822236	809840	<0.2	<0.2	3.3	3.3	
11-Aug-16	Fine	Moderate	13:49	6.9	Surface	1.0	0.2	274	26.5	26.5	7.8	7.8	18.5	18.5	84.0	83.7	6.1	0.9	2	2	80	85	822222	809841	<0.2	<0.2	2.8	3.0	
						1.0	0.2	289	26.5	26.5	7.8	7.8	18.5	18.5	83.3	83.7	6.0	0.9	2	2	82	85	822222	809841	<0.2	<0.2	2.8	3.0	
					Middle	3.5	0.3	298	25.9	25.9	7.7	7.7	22.8	22.9	69.2	69.0	4.9	1.1	2	2	85	85	822222	809841	<0.2	<0.2	3.1	3.0	
						3.5	0.3	306	25.9	25.9	7.7	7.7	22.9	22.9	68.7	69.0	4.9	1.1	3	3	86	85	822222	809841	<0.2	<0.2	2.9	3.0	
					Bottom	5.9	0.3	313	24.1	24.1	7.7	7.7	28.9	28.9	45.3	45.6	3.2	6.1	2	2	87	85	822222	809841	<0.2	<0.2	3.0	3.0	
						5.9	0.3	337	24.1	24.1	7.7	7.7	28.9	28.9	45.8	45.6	3.3	6.3	3	3	88	85	822222	809841	<0.2	<0.2	3.3	3.0	
13-Aug-16	Fine	Moderate	15:57	6.8	Surface	1.0	0.2	124	26.9	27.0	7.9	7.9	19.2	19.2	87.3	86.5	6.3	1.6	2	2	84	87	822241	809845	<0.2	<0.2	3.2	3.3	
						1.0	0.3	129	27.0	27.0	7.9	7.9	19.1	19.2	85.6	86.5	6.1	1.6	2	2	86	87	822241	809845	<0.2	<0.2	3.3	3.3	
					Middle	3.4	0.2	204	24.8	24.8	7.8	7.8	26.5	26.5	55.3	55.2	3.9	2.0	3	3	85	87	822241	809845	<0.2	<0.2	3.3	3.3	
						3.4	0.2	216	24.8	24.8	7.8	7.8	26.5	26.5	55.0	55.2	3.9	2.1	2	2	88	87	822241	809845	<0.2	<0.2	3.1	3.3	
					Bottom	5.8	0.4	300	24.0	24.1	7.7	7.7	29.1	29.1	49.3	50.1	3.5	6.0	3	3	90	87	822241	809845	<0.2	<0.2	3.3	3.3	
						5.8	0.4	313	24.1	24.1	7.7	7.7	29.0	29.0	50.9	50.1	3.6	5.8	3	3	91	87	822241	809845	<0.2	<0.2	3.3	3.3	
16-Aug-16	Cloudy	Moderate	18:00	7.3	Surface	1.0	0.6	285	25.3	25.3	7.9	7.9	22.5	22.5	70.0	70.0	5.1	2.6	3	3	85	89	822230	809854	<0.2	<0.2	2.4	3.1	
						1.0	0.6	290	25.3	25.3	7.9	7.9	22.5	22.5	69.9	70.0	5.1	2.7	3	3	83	89	822230	809854	<0.2	<0.2	3.2	3.1	
					Middle	3.7	0.6	284	24.9	24.9	7.9	7.9	23.8	23.8	63.7	63.7	4.6	5.7	2	2	91	89	822230	809854	<0.2	<0.2	2.2	3.1	
						3.7	0.6	293	24.9	24.9	7.9	7.9	23.8	23.8	63.7	63.7	4.6	5.9	3	3	90	89	822230	809854	<0.2	<0.2	3.2	3.1	
					Bottom	6.3	0.5	299	24.7	24.7	7.9	7.9	25.0	25.0	61.0	61.0	4.4	18.4	4	4	93	89	822230	809854	<0.2	<0.2	3.5	3.1	
						6.3	0.5	312	24.7	24.7	7.9	7.9	25.0	25.0	61.0	61.0	4.4	18.4	5	5	92	89	822230	809854	<0.2	<0.2	4.0	3.1	
18-Aug-16	Cloudy	Rough	19:07	6.3	Surface	1.0	0.8	276	25.3	25.3	7.8	7.8	24.8	24.8	73.9	73.9	5.3	4.5	4	4	83	89	822237	809819	<0.2	<0.2	2.4	2.5	
						1.0	0.8	300	25.3	25.3	7.8	7.8	24.8	24.8	73.8	73.9	5.3	4.6	4	4	85	89	822237	809819	<0.2	<0.2	2.4	2.5	
					Middle	3.2	0.7	275	25.3	25.3	7.8	7.8	24.9	24.9	71.7	71.7	5.1	6.7	3	3	90	89	822237	809819	<0.2	<0.2	3.1	2.5	
						3.2	0.8	300	25.3	25.3	7.8	7.8	24.9	24.9	71.6	71.9	5.1	6.8	3	3	89	89	822237	809819	<0.2	<0.2	2.4	2.5	
					Bottom	5.3	0.6	271	25.1	25.1	7.8	7.8	25.4	25.4	71.9	71.9	5.1	9.7	4	4	92	89	822237	809819	<0.2	<0.2	2.4	2.5	
						5.3	0.6	281	25.1	25.1	7.8	7.8	25.4	25.4	71.9	71.9	5.1	9.7	4	4	93	89	822237	809819	<0.2	<0.2	2.5	2.5	
20-Aug-16	Moderate	Fine	07:34	7.6	Surface	1.0	0.7	299	26.1	26.1	7.6	7.6	21.3	21.3	69.3	69.3	5.0	4.9	3	3	85	90	822226	809832	<0.2	<0.2	3.1	3.2	
						1.0	0.7	313	26.1	26.1	7.6	7.6	21.3	21.3	69.3	69.3	5.0	5.0	3	3	88	90	822226	809832	<0.2	<0.2	3.3	3.2	
					Middle	3.8	0.6	303	25.8	25.8	7.7	7.7	23.5	23.5	70.2	70.2	5.0	19.6	8	8	90	90	822226	809832	<0.2	<0.2	3.5	3.2	
						3.8	0.6	321	25.8	25.8	7.7	7.7	23.5	23.5	70.2	70.2	5.0	19.7	8	8	91	90	822226	809832	<0.2	<0.2	3.4	3.2	
					Bottom	6.6	0.5	299	25.7	25.7	7.7	7.7	23.8	23.8	72.1	72.2	5.1	40.6	12	12	92	90	822226	809832	<0.2	<0.2	3.1	3.2	
						6.6	0.5	306	25.7	25.7	7.7	7.7	23.8	23.8	72.2	72.2	5.1	40.8	11	11	93	90	822226	809832	<0.2	<0.2	3.0	3.2	
23-Aug-16	Sunny	Moderate	10:06	7.0	Surface	1.0	0.6	290	27.1	27.1	7.7	7.7	19.2	19.2	70.6	70.6	5.1	5.5	4	4	85	89	822247	809835	<0.2	<0.2	3.0	2.5	

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM11 during Mid-Flood Tide**

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	20:15	7.3	Surface	1.0	0.5	290	26.2	7.5	7.6	19.2	19.2	78.7	78.7	5.7	5.6	5.5	19.4	6	14	85	89	821501	810559	<0.2	<0.2	4.0	3.3		
						1.0	0.6	303	26.2	7.6	7.6	19.2	19.2	78.7	78.7	5.7	5.6	5.5	19.4	6	14	85	89	821501	810559	<0.2	<0.2	3.4	3.3		
					Middle	3.7	0.6	290	25.9	7.6	7.6	21.4	21.4	77.2	77.1	5.5	5.5	11.0	5.6	11.3	19.4	5	14	89	89	821501	810559	<0.2	<0.2	3.8	3.3
						3.7	0.6	292	25.9	7.6	7.6	21.4	21.4	77.1	77.1	5.5	5.5	11.3	5.6	11.3	19.4	5	14	89	89	821501	810559	<0.2	<0.2	3.4	3.3
					Bottom	6.3	0.5	273	25.6	7.6	7.6	22.6	22.6	75.4	75.4	5.4	5.4	41.7	5.4	41.7	19.4	30	14	91	91	821501	810559	<0.2	<0.2	2.6	3.3
						6.3	0.5	289	25.6	7.6	7.6	22.6	22.6	75.5	75.4	5.4	5.4	41.6	5.4	41.6	19.4	30	14	92	92	821501	810559	<0.2	<0.2	2.4	3.3
6-Aug-16	Sunny	Moderate	08:52	8.7	Surface	1.0	0.5	271	26.6	7.5	7.5	19.1	19.1	66.4	66.4	4.8	4.7	5.0	14.0	2	9	85	89	821492	810526	<0.2	<0.2	3.6	3.2		
						1.0	0.6	275	26.6	7.5	7.5	19.1	19.1	66.3	66.4	4.8	4.7	5.1	14.0	3	9	86	89	821492	810526	<0.2	<0.2	3.5	3.2		
					Middle	4.4	0.6	293	26.2	7.5	7.5	21.4	21.4	64.9	64.9	4.6	4.6	10.9	4.7	11.2	14.0	3	9	90	89	821492	810526	<0.2	<0.2	3.3	3.2
						4.4	0.6	293	26.2	7.5	7.5	21.3	21.4	64.9	64.9	4.6	4.6	11.2	4.7	11.2	14.0	3	9	89	89	821492	810526	<0.2	<0.2	3.6	3.2
					Bottom	7.7	0.6	291	25.5	7.5	7.5	24.3	24.3	65.4	65.4	4.7	4.7	25.9	4.7	25.9	14.0	21	9	92	92	821492	810526	<0.2	<0.2	2.7	3.2
						7.7	0.6	291	25.5	7.5	7.5	24.3	24.3	65.4	65.4	4.7	4.7	25.9	4.7	25.9	14.0	22	9	91	91	821492	810526	<0.2	<0.2	2.7	3.2
9-Aug-16	Fine	Moderate	10:28	8.2	Surface	1.0	0.3	212	28.1	7.8	7.8	16.1	16.1	89.7	89.7	6.4	6.2	1.9	5.0	<2	4	85	90	821490	810555	<0.2	<0.2	3.2	3.1		
						1.0	0.3	212	28.1	7.8	7.8	16.1	16.1	89.6	89.7	6.4	6.2	1.9	5.0	<2	4	86	90	821490	810555	<0.2	<0.2	3.3	3.1		
					Middle	4.1	0.3	240	27.2	7.7	7.7	20.0	20.0	83.3	83.3	5.9	5.9	3.2	5.4	<2	4	90	90	821490	810555	<0.2	<0.2	3.0	3.1		
						4.1	0.3	246	27.3	7.7	7.7	20.0	20.0	83.3	83.3	5.9	5.9	3.2	5.4	<2	4	90	90	821490	810555	<0.2	<0.2	3.2	3.1		
					Bottom	7.2	0.4	249	26.5	7.7	7.7	22.1	22.1	75.5	75.5	5.4	5.4	9.8	5.4	9.8	5.0	9	94	94	821490	810555	<0.2	<0.2	2.9	3.1	
						7.2	0.4	271	26.5	7.7	7.7	22.1	22.1	75.5	75.5	5.4	5.4	9.8	5.4	9.8	5.0	9	93	93	821490	810555	<0.2	<0.2	2.8	3.1	
11-Aug-16	Fine	Moderate	13:40	7.3	Surface	1.0	0.2	279	26.5	7.7	7.8	20.8	20.8	78.4	78.2	5.6	4.7	0.8	3.1	<2	3	82	87	821493	810537	<0.2	<0.2	3.2	3.1		
						1.0	0.2	290	26.5	7.8	7.8	20.8	20.8	78.0	78.2	5.6	4.7	0.8	3.1	<2	3	84	87	821493	810537	<0.2	<0.2	3.3	3.1		
					Middle	3.7	0.2	282	25.0	7.7	7.7	27.1	27.1	54.5	54.4	3.9	3.4	2.5	3.1	<2	3	85	87	821493	810537	<0.2	<0.2	3.0	3.1		
						3.7	0.2	299	25.0	7.7	7.7	27.0	27.1	54.3	54.4	3.8	3.4	2.5	3.1	<2	3	87	87	821493	810537	<0.2	<0.2	3.2	3.1		
					Bottom	6.3	0.3	309	24.3	7.7	7.7	28.7	28.7	46.9	47.2	3.3	3.4	5.7	3.4	6.0	3.1	5	89	92	821493	810537	<0.2	<0.2	2.9	3.1	
						6.3	0.3	332	24.3	7.7	7.7	28.7	28.7	47.4	47.2	3.4	3.4	6.0	3.4	6.0	3.1	5	92	92	821493	810537	<0.2	<0.2	2.8	3.1	
13-Aug-16	Fine	Moderate	16:08	7.2	Surface	1.0	0.2	230	26.5	7.8	7.8	19.6	19.6	82.3	82.1	5.9	5.6	1.5	2.0	3	3	83	85	821487	810532	<0.2	<0.2	3.6	3.1		
						1.0	0.2	232	26.5	7.8	7.8	19.5	19.6	81.8	82.1	5.9	5.6	1.5	2.0	3	3	82	85	821487	810532	<0.2	<0.2	3.5	3.1		
					Middle	3.6	0.5	285	25.6	7.8	7.8	24.0	24.0	73.4	73.2	5.2	4.0	1.5	4.0	3	3	83	89	821487	810532	<0.2	<0.2	3.4	3.1		
						3.6	0.5	312	25.6	7.8	7.8	24.0	24.0	72.9	73.2	5.2	4.0	1.5	4.0	3	3	86	89	821487	810532	<0.2	<0.2	3.1	3.1		
					Bottom	6.2	0.3	298	24.3	7.8	7.8	28.5	28.6	55.3	56.1	3.9	4.0	3.1	4.0	3	3	87	89	821487	810532	<0.2	<0.2	2.5	3.1		
						6.2	0.3	311	24.3	7.8	7.8	28.6	28.6	56.8	56.1	4.0	4.0	3.1	4.0	3	3	89	89	821487	810532	<0.2	<0.2	2.5	3.1		
16-Aug-16	Cloudy	Moderate	18:10	8.3	Surface	1.0	0.6	280	25.0	7.9	7.9	24.0	24.0	69.6	69.5	5.0	4.8	4.7	11.8	3	11	85	89	821490	810555	<0.2	<0.2	2.3	3.3		
						1.0	0.6	303	25.0	7.9	7.9	24.0	24.0	69.4	69.5	5.0	4.8	4.7	11.8	3	11	84	89	821490	810555	<0.2	<0.2	2.0	3.3		
					Middle	4.2	0.5	277	24.6	7.9	7.9	25.5	25.5	62.1	62.1	4.5	4.3	12.7	4.3	12.2	11.8	9	11	90	89	821490	810555	<0.2	<0.2	3.7	3.3
						4.2	0.5	293	24.6	7.9	7.9	25.5	25.5	62.1	62.1	4.5	4.3	12.2	4.3	12.2	11.8	9	11	90	89	821490	810555	<0.2	<0.2	3.8	3.3
					Bottom	7.3	0.4	276	24.5	7.9	7.9	25.8	25.8	59.2	59.2	4.3	4.3	18.5	4.3	18.2	11.8	20	11	93	89	821490	810555	<0.2	<0.2	3.4	3.3
						7.3	0.4	302	24.5	7.9	7.9	25.8	25.8	59.2	59.2	4.3	4.3	18.2	4.3	18.2	11.8	20	11	92	89	821490	810555	<0.2	<0.2	4.3	3.3
18-Aug-16	Cloudy	Rough	19:16	7.8	Surface	1.0	0.8	285	25.2	7.8	7.8	25.5	25.5	78.3	78.3	5.6	5.6	5.8	11.5	4	6	84	89	821514	810556	<0.2	<0.2	1.8	2.1		
						1.0	0.9	298	25.2	7.8	7.8	25.5	25.5	78.2	78.3	5.6	5.6	6.0	11.5	4	6	85	89	821514	810556	<0.2	<0.2	2.0	2.1		
					Middle	3.9	0.7	287	25.2	7.8	7.8	25.6	25.6	77.1	77.1	5.5	5.5	10.9	5.5	11.2	11.5	5	6	89	89	821514	810556	<0.2	<0.2	2.0	2.1
						3.9	0.8	301	25.2	7.8	7.8	25.6	25.6	77.0	77.0	5.5	5.5	11.2	5.5	11.2	11.5	5	6	90	89	821514	810556	<0.2	<0.2	1.9	2.1
					Bottom	6.8	0.6	279	25.1	7.8	7.8	25.9	25.9	77.0	77.0	5.5	5.5	17.4	5.5	17.4	11.5	11	93	92	821514	810556	<0.2	<0.2	2.4	2.1	
						6.8	0.6	280	25.1	7.8	7.8	25.9	25.9	77.0	77.0	5.5	5.5	17.4	5.5	17.4	11.5	9	92	92	821514	810556	<0.2	<0.2	2.4	2.1	
20-Aug-16	Moderate	Fine	07:26	8.8	Surface	1.0	0.7	271	25.9	7.7	7.7	22.4	22.4	70.2	70.2	5.0	5.1	3.6	15.2	2	7	83	89	821520	810532	<0.2	<0.2	3.1	2.9		
						1.0	0.8	297	25.9	7.7	7.7	22.4	22.4	70.2	70.2	5.0	5.1	3.7	15.2	2	7	83	89	821520	810532	<0.2	<0.2	3.0	2.9		
					Middle	4.4	0.7	267	25.8	7.7	7.7	22.9	22.9	70.7	70.7	5.1	5.1	5.6	5.1	5.6	15.2	4	7	91	89	821520	810532	<0.2	<0.2	2.9	2.9
						4.4	0.7	288	25.8	7.7	7.7	22.9	22.9	70.7	70.7	5.1	5.1	5.6	5.1	5.6	15.2	3	7	90	89	821520					

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM12 during Mid-Flood Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	20:26	7.7	Surface	1.0	0.7	285	25.9	25.9	7.6	7.6	21.6	21.6	78.4	78.4	5.6	5.6	6.6	6.6	4	4	86	86	821156	811513	<0.2	<0.2	3.0	3.0
						1.0	0.7	286	25.9	7.6	7.6	21.6	21.6	78.4	78.4	5.6	5.6	6.6	6.6	5	5	87	87							
					3.9	0.8	280	25.5	25.5	7.6	7.6	23.1	23.1	77.4	77.4	5.5	5.5	11.3	11.3	38	38	90	90	<0.2			<0.2	3.2	3.2	
					3.9	0.9	294	25.5	7.6	7.6	23.1	23.1	77.4	77.4	5.5	5.5	11.3	11.3	37	37	89	89	<0.2	<0.2			3.0	3.0		
					6.7	0.6	278	25.2	25.2	7.6	7.6	24.5	24.5	77.3	77.3	5.5	5.5	49.3	49.3	41	41	93	93	<0.2			<0.2	2.7	2.7	
					6.7	0.7	284	25.2	7.6	7.6	24.5	24.5	77.3	77.3	5.5	5.5	49.3	49.3	40	40	92	92	<0.2	<0.2			2.7	2.7		
6-Aug-16	Sunny	Moderate	08:41	7.5	Surface	1.0	0.7	284	26.8	26.8	7.5	7.5	18.5	18.5	68.4	68.4	4.9	4.9	5.8	5.8	3	3	84	84	821176	811523	<0.2	<0.2	3.6	3.6
						1.0	0.7	301	26.7	7.5	7.5	18.5	18.5	68.3	68.3	4.9	4.9	6.0	6.0	3	3	86	86							
					3.8	0.7	277	26.2	26.2	7.5	7.5	21.7	21.7	66.8	66.8	4.8	4.8	3.3	3.3	2	2	88	88	<0.2			<0.2	3.0	3.0	
					3.8	0.7	298	26.2	7.5	7.5	21.7	21.7	66.8	66.8	4.8	4.8	3.4	3.4	3	3	88	88	<0.2	<0.2			2.8	2.8		
					6.5	0.5	269	25.3	25.3	7.6	7.6	25.3	25.3	65.6	65.6	4.7	4.7	18.0	18.0	3	3	91	91	<0.2			<0.2	3.8	3.8	
					6.5	0.5	288	25.3	7.6	7.6	25.3	25.3	65.6	65.6	4.7	4.7	18.0	18.0	3	3	92	92	<0.2	<0.2			4.1	4.1		
9-Aug-16	Fine	Moderate	10:21	7.6	Surface	1.0	0.5	287	28.0	28.0	7.8	7.8	16.9	16.9	94.0	94.0	6.7	6.7	2.9	2.9	<2	<2	84	84	821156	811521	<0.2	<0.2	3.1	3.1
						1.0	0.6	294	28.0	7.8	7.8	16.9	16.9	94.0	94.0	6.7	6.7	3.0	3.0	<2	<2	87	87							
					3.8	0.5	280	27.3	27.3	7.8	7.8	20.9	20.9	88.4	88.4	6.2	6.2	4.7	4.7	2	2	89	89	<0.2			<0.2	3.1	3.1	
					3.8	0.5	290	27.3	7.8	7.8	20.9	20.9	88.4	88.4	6.2	6.2	4.7	4.7	2	2	89	89	<0.2	<0.2			3.0	3.0		
					6.6	0.5	271	25.2	25.2	7.7	7.7	27.1	27.1	65.7	65.7	4.6	4.6	15.3	15.3	7	7	92	92	<0.2			<0.2	2.6	2.6	
					6.6	0.5	273	25.2	7.7	7.7	27.1	27.1	65.8	65.8	4.6	4.6	15.3	15.3	7	7	92	92	<0.2	<0.2			2.7	2.7		
11-Aug-16	Cloudy	Moderate	13:29	8.4	Surface	1.0	0.2	268	26.3	26.3	7.8	7.8	20.8	20.8	83.3	83.3	6.0	6.0	0.7	0.7	<2	<2	84	84	821149	811535	<0.2	<0.2	3.1	3.1
						1.0	0.2	293	26.3	7.8	7.8	20.8	20.8	83.2	83.2	6.0	6.0	0.7	0.7	<2	<2	87	87							
					4.2	0.3	287	25.0	25.0	7.7	7.7	27.1	27.1	55.7	55.9	3.9	3.9	2.4	2.4	2	2	88	88	<0.2			<0.2	3.1	3.1	
					4.2	0.3	289	25.0	7.7	7.7	27.1	27.1	56.0	56.0	4.0	4.0	2.5	2.5	2	2	90	90	<0.2	<0.2			3.0	3.0		
					7.4	0.2	288	23.9	23.9	7.7	7.7	30.8	30.8	51.7	52.0	3.6	3.6	8.7	8.7	6	6	92	92	<0.2			<0.2	2.6	2.6	
					7.4	0.2	289	23.9	7.7	7.7	30.8	30.8	52.2	52.0	3.7	3.7	8.5	8.5	7	7	94	94	<0.2	<0.2			2.7	2.7		
13-Aug-16	Fine	Moderate	17:08	7.3	Surface	1.0	0.2	242	26.8	26.8	7.9	7.9	18.8	18.8	91.6	91.5	6.6	6.6	1.2	1.2	3	3	82	82	821175	811526	<0.2	<0.2	3.3	3.3
						1.0	0.2	247	26.8	7.9	7.9	18.8	18.8	91.4	91.4	6.6	6.6	1.2	1.2	2	2	84	84							
					3.7	0.4	251	26.1	26.1	7.9	7.9	21.9	21.9	85.5	85.2	6.1	6.1	1.2	1.2	3	3	87	87	<0.2			<0.2	3.0	3.0	
					3.7	0.4	275	26.1	7.9	7.9	21.9	21.9	84.8	84.8	6.1	6.1	1.2	1.2	4	4	84	84	<0.2	<0.2			3.0	3.0		
					6.3	0.2	251	24.1	24.1	7.8	7.8	29.4	29.5	52.6	53.0	3.7	3.8	4.7	4.7	4	4	88	88	<0.2			<0.2	2.5	2.5	
					6.3	0.2	273	24.0	7.8	7.8	29.5	29.5	53.3	53.0	3.8	3.8	4.8	4.8	4	4	90	90	<0.2	<0.2			2.2	2.2		
16-Aug-16	Cloudy	Moderate	18:20	7.8	Surface	1.0	0.7	266	25.4	25.5	8.0	8.0	23.2	23.2	84.7	84.7	6.1	6.1	4.4	4.4	6	6	84	84	821151	811500	<0.2	<0.2	2.4	2.4
						1.0	0.7	272	25.5	8.0	8.0	23.2	23.2	84.7	84.7	6.1	6.1	4.5	4.5	5	5	86	86							
					3.9	0.6	276	24.8	24.8	7.9	7.9	25.9	25.9	62.4	62.3	4.5	4.5	22.2	22.2	10	10	90	90	<0.2			<0.2	1.9	1.9	
					3.9	0.6	284	24.7	7.9	7.9	25.9	25.9	62.2	62.3	4.5	4.5	22.2	22.2	9	9	91	91	<0.2	<0.2			1.9	1.9		
					6.8	0.4	260	24.4	24.4	7.8	7.8	27.2	27.2	57.6	57.6	4.1	4.1	27.0	27.0	19	19	93	93	<0.2			<0.2	1.5	1.5	
					6.8	0.4	277	24.4	7.8	7.8	27.2	27.2	57.6	57.6	4.1	4.1	27.0	27.0	18	18	92	92	<0.2	<0.2			1.3	1.3		
18-Aug-16	Cloudy	Rough	19:27	7.1	Surface	1.0	0.9	274	24.8	24.8	7.8	7.8	26.6	26.6	76.3	76.3	5.4	5.4	15.4	15.7	9	9	87	85	821152	811508	<0.2	<0.2	1.7	1.7
						1.0	1.0	286	24.8	7.8	7.8	26.6	26.6	76.2	76.2	5.4	5.4	15.7	15.7	9	9	85	85							
					3.6	0.8	273	24.8	24.8	7.8	7.8	26.7	26.7	75.9	75.9	5.4	5.4	30.8	30.8	28	28	90	89	<0.2			<0.2	1.8	1.8	
					3.6	0.9	295	24.8	7.8	7.8	26.7	26.7	75.9	75.9	5.4	5.4	29.6	29.6	28	28	89	89	<0.2	<0.2			1.8	1.8		
					6.1	0.8	267	24.8	24.8	7.8	7.8	26.7	26.7	77.4	77.5	5.5	5.5	37.9	37.9	31	31	93	93	<0.2			<0.2	2.3	2.3	
					6.1	0.8	288	24.8	7.8	7.8	26.7	26.7	77.5	77.5	5.5	5.5	37.3	37.3	30	30	92	92	<0.2	<0.2			2.4	2.4		
20-Aug-16	Moderate	Fine	07:19	7.4	Surface	1.0	0.9	275	26.0	26.0	7.7	7.7	21.5	21.5	72.0	72.0	5.2	5.2	5.1	5.2	2	3	84	86	821148	811514	<0.2	<0.2	3.5	3.4
						1.0	0.9	294	26.0	7.7	7.7	21.5	21.5	72.0	72.0	5.2	5.2	5.2	5.2	3	3	86	86							
					3.7	0.8	274	25.6	25.6	7.7	7.7	24.3	24.4	72.2	72.2	5.1	5.1	10.1	10.3	4	4	90	91	<0.2			<0.2	3.0	3.1	
					3.7	0.9	279	25.6	7.7	7.7	24.4	24.4	72.2	72.2	5.1	5.1	10.3	10.3	4	4	91	93	<0.2	<0.2			3.1	2.7		
					6.4	0.6	269	25.3	25.3	7.8	7.8	26.3	26.3	73.1	73.1	5.2	5.2	39.1	39.1	10	10	93	92	<0.2			<0.2	2.7	2.7	
					6.4	0.7	272	25.3	7.8	7.8	26.3	26.3	73.1	73.1	5.2	5.2	39.3	39.3	10	10	92	92	<0.2	<0.2			2.7	2.7		
23-Aug-16	Sunny	Moderate	09:53	8.8	Surface	1.0	0.8	272	26.9	26.9	7.7	7.7	21.3	21.3	73.1	73.1	5.2	5.2	4.8	4.9	6	4	85	84	821175	811511	<0.2	<0.2	2.6	2.7
						1.0	0.8	293	26.9	7.7	7.7	21.3	21.3	73.0	73.0	5.2	5.2	4.9	4.9	4	4	84	84							
					4.4	0.7	279	26.5	26.6	7.8	7.8	23.7	23.7	73.0	73.0	5.1	5.1	12.3	12.5	4	4	90	91	<0.2			<0.2	2.1	2.1	
					4.4	0.8	284	26.6	7.8	7.8	23.7	23.7	73.0	73.0	5.1	5.1	12.5	12.5	4	4	91	92	<0.2	<0.2			2.1	2.2		
					7.8	0.5	270	26.4	26.4	7.8	7.8	24.4</																		

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

Water Quality Monitoring Results at SR2 during Mid-Flood Tide

Date	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 (mg/L)		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)									
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA											
4-Aug-16	Cloudy	Moderate	21:09	4.7	Surface	1.0	0.3	291	25.3	7.6	7.6	23.3	23.3	72.7	72.7	5.2	5.2	14.4	14.4	16	16	821460	814184									
						1.0	0.3	302	25.3	7.6	7.6	23.3	23.3	72.7	72.7	5.2	5.2	14.4	14.4	16	16											
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	821460	814184				
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-			821460	814184		
					Bottom	3.7	0.3	306	25.2	7.6	7.6	23.7	23.7	71.3	71.3	5.1	5.1	21.8	21.8	16	16			821460	814184							
						3.7	0.3	322	25.2	7.6	7.6	23.7	23.7	71.3	71.3	5.1	5.1	21.8	21.8	16	16					821460					814184	
6-Aug-16	Cloudy	Moderate	08:00	4.4	Surface	1.0	0.2	189	26.7	7.5	7.5	18.4	18.4	69.8	69.8	5.0	5.0	3.6	3.6	4	4	821472	814147									
						1.0	0.2	194	26.7	7.5	7.5	18.4	18.4	69.8	69.8	5.0	5.0	3.7	3.7	4	4											
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-				-
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	821472		814147
					Bottom	3.4	0.2	265	26.1	7.5	7.5	21.4	21.4	70.3	70.3	5.0	5.0	4.3	4.3	5	5			821472	814147							
						3.4	0.2	280	26.1	7.5	7.5	21.4	21.4	70.3	70.3	5.0	5.0	4.3	4.3	5	5					821472	814147					
9-Aug-16	Fine	Moderate	09:50	4.7	Surface	1.0	0.2	249	27.9	7.8	7.8	17.8	17.8	95.8	95.8	6.8	6.8	4.1	4.1	<2	<2	821455	814184									
						1.0	0.2	249	27.9	7.8	7.8	17.8	17.8	95.8	95.8	6.8	6.8	4.1	4.1	<2	<2											
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-		-	
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821455	814184
					Bottom	3.7	0.2	203	26.8	7.8	7.8	22.3	22.3	90.6	90.6	6.4	6.4	12.4	12.4	<2	<2			821455	814184							
						3.7	0.2	215	26.8	7.8	7.8	22.3	22.3	90.6	90.6	6.4	6.4	12.4	12.4	<2	<2					821455	814184					
11-Aug-16	Rainy	Moderate	12:48	4.3	Surface	1.0	0.3	120	26.3	7.8	7.8	21.6	21.6	81.2	81.3	5.8	5.8	0.8	0.9	<2	<2	821443	814170									
						1.0	0.3	121	26.3	7.8	7.8	21.5	21.5	81.3	81.3	5.8	5.8	0.9	0.9	<2	<2											
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-		
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821443	814170
					Bottom	3.3	0.3	178	25.1	7.7	7.7	26.2	26.4	60.5	61.2	4.3	4.4	37.3	41.6	<2	<2			821443	814170							
						3.3	0.3	188	25.0	7.7	7.7	26.5	26.4	61.8	61.2	4.4	4.4	41.6	41.6	<2	<2					821443	814170					
13-Aug-16	Fine	Moderate	17:04	5.3	Surface	1.0	0.3	201	26.4	7.9	7.9	21.6	21.6	91.4	91.1	6.5	6.5	1.3	1.3	<2	<2	821472	814173									
						1.0	0.3	203	26.5	7.9	7.9	21.6	21.6	90.8	91.1	6.5	6.5	1.3	1.3	<2	<2											
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-		
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821472	814173
					Bottom	4.3	0.4	236	25.5	7.8	7.8	24.3	24.4	77.7	77.7	5.5	5.5	1.6	1.6	3	3			821472	814173							
						4.3	0.4	249	25.5	7.8	7.8	24.5	24.4	77.6	77.7	5.5	5.5	1.8	1.8	4	4					821472	814173					
16-Aug-16	Cloudy	Moderate	18:52	4.7	Surface	1.0	0.5	301	25.2	7.8	7.8	24.3	24.3	69.6	69.5	5.0	5.0	8.0	8.1	6	7	821481	814184									
						1.0	0.5	318	25.2	7.8	7.8	24.2	24.3	69.4	69.5	5.0	5.0	8.1	8.1	7	7											
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-		
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821481	814184
					Bottom	3.7	0.2	272	24.5	7.8	7.8	26.8	26.8	62.6	62.6	4.5	4.5	21.6	21.6	19	20			821481	814184							
						3.7	0.2	288	24.5	7.8	7.8	26.8	26.8	62.6	62.6	4.5	4.5	21.6	21.6	20	20					821481	814184					
18-Aug-16	Cloudy	Rough	19:57	4.8	Surface	1.0	0.3	105	24.7	7.8	7.8	27.3	27.3	74.2	74.2	5.3	5.3	12.3	12.4	14	14	821482	814175									
						1.0	0.3	111	24.7	7.8	7.8	27.3	27.3	74.2	74.2	5.3	5.3	12.4	12.4	14	14											
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-		
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821482	814175
					Bottom	3.8	0.2	100	24.7	7.8	7.8	27.4	27.4	75.1	75.2	5.3	5.3	14.2	14.2	15	15			821482	814175							
						3.8	0.2	102	24.7	7.8	7.8	27.4	27.4	75.2	75.2	5.3	5.3	14.2	14.2	15	15					821482	814175					
20-Aug-16	Moderate	Fine	06:58	4.7	Surface	1.0	0.2	271	25.5	7.7	7.7	24.5	24.5	71.2	71.3	5.1	5.1	10.6	10.7	8	9	821481	814153									
						1.0	0.2	296	25.5	7.7	7.7	24.5	24.5	71.3	71.3	5.1	5.1	10.7	10.7	9	9											
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-		
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821481	814153
					Bottom	3.7	0.2	153	25.3	7.7	7.7	25.8	25.8	73.0	73.0	5.2	5.2	14.1	14.1	14	14			821481	814153							
						3.7	0.2	156	25.3	7.7	7.7	25.8	25.8	73.0	73.0	5.2	5.2	14.1	14.1	14	14					821481	814153					
23-Aug-16	Sunny	Moderate	09:33	5.0	Surface	1.0	0.3	278	26.6	7.8	7.8	22.7	22.7	71.4	71.4	5.1	5.1	9.1	9.3	8	9	821451	814179									
						1.0	0.3	305	26.6	7.8	7.8	22.7	22.7	71.4	71.4	5.1	5.1	9.3	9.3	9	9											
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-		
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821451	814179
					Bottom	4.0	0.2	235	26.4	7.8	7.8	23.2	23.2	72.7	72.7	5.1	5.1	12.8	12.8	17	17			821451	814179							
						4.0	0.2	240	26.4	7.8	7.8	23.2	23.2	72.7	72.7	5.1	5.1	12.8	12.8	17	17					821451	814179					
25-Aug-16	Fine	Moderate	12:00	4.7	Surface	1.0	0.4	279	29.2	7.8	7.8	20.2	20.2	73.4	73.4	5.0	5.0	4.9	4.9	4	4	821469	814163									
						1.0	0.4	306	29.2	7.8	7.8	20.2	20.2	73.3	73.4	5.0	5.0	4.9	4.9	4	4											
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-		
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821469	814163
					Bottom	3.7	0.4	260	28.2	7.8	7.8	23.7	23.7	67.8	67.8	4.6	4.6	14.7	14.7	12	12			821469	814163							
						3.7	0.5	284	28.2	7.8	7.8	23.7	23.7	67.8	67.8	4.6	4.6	14.7	14.7	12	12					821469	814163					
27-Aug-16	Rainy	Moderate	15:58	4.5	Surface	1.0	0.2	237	29.6	8.3	8.3	21.1	21.1	133.2	133.2	9.0	9.0	6.1	6.0	5	6	821462	814163									
						1.0	0.2	242	29.6	8.3	8.3	21.1	21.1	133.1	133.2	9.0	9.0	6.0	6.0	6	6											
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-		
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	821462	814163
					Bottom	3.5	0.2	174	27.8	7.8	7																					

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

Water Quality Monitoring

Water Quality Monitoring Results at SR3 during Mid-Flood Tide

Date	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 (mg/L)		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
4-Aug-16	Cloudy	Moderate	19:32	7.8	Surface	1.0	0.7	190	26.3	26.3	7.5	7.5	17.9	17.9	69.5	69.5	5.1	5.1	11.0	11.0	8	8	822165	807584
						1.0	0.8	190	26.3	7.5	7.5	17.9	17.9	69.5	69.5	5.1	5.1	11.0	11.0					
					Middle	3.9	0.6	207	25.9	25.9	7.5	7.5	20.6	20.5	68.8	68.8	5.0	5.0	17.4	17.6	10	10		
						3.9	0.6	213	25.9	25.9	7.5	7.5	20.3	20.3	68.8	68.8	5.0	5.0	17.6	17.6	10	10		
					Bottom	6.8	0.4	229	25.6	25.6	7.6	7.6	22.4	22.4	70.1	70.1	5.0	5.0	22.8	22.8	9	9		
						6.8	0.4	246	25.6	25.6	7.6	7.6	22.4	22.4	70.1	70.1	5.0	5.0	22.8	22.8	10	10		
6-Aug-16	Sunny	Moderate	09:35	9.8	Surface	1.0	0.4	213	26.7	26.7	7.5	7.5	17.8	17.8	64.2	64.2	4.6	4.6	3.5	3.5	4	4	822145	807581
						1.0	0.4	217	26.7	26.7	7.5	7.5	17.8	17.8	64.1	64.1	4.6	4.6	3.6	3.6	3	3		
					Middle	4.9	0.4	229	26.3	26.3	7.5	7.5	20.2	20.2	63.2	63.2	4.5	4.5	4.1	4.1	3	3		
						4.9	0.4	236	26.3	26.3	7.5	7.5	20.2	20.2	63.3	63.3	4.6	4.6	4.2	4.2	3	3		
					Bottom	8.8	0.3	146	26.0	26.0	7.5	7.5	21.8	21.8	64.9	64.9	4.6	4.6	4.8	4.8	5	5		
						8.8	0.3	153	26.0	26.0	7.5	7.5	21.8	21.8	64.9	64.9	4.6	4.6	4.8	4.8	7	7		
9-Aug-16	Fine	Moderate	11:00	9.2	Surface	1.0	0.3	234	28.0	28.0	7.7	7.7	17.1	17.1	81.5	81.5	5.8	5.8	3.3	3.3	<2	<2	822127	807568
						1.0	0.3	254	28.0	28.0	7.7	7.7	17.1	17.1	81.5	81.5	5.8	5.8	3.4	3.4	<2	<2		
					Middle	4.6	0.3	186	27.3	27.3	7.7	7.7	19.3	19.3	74.1	74.0	5.3	5.3	2.4	2.4	<2	<2		
						4.6	0.3	193	27.3	27.3	7.7	7.7	19.3	19.3	73.9	74.0	5.3	5.3	2.3	2.3	<2	<2		
					Bottom	8.2	0.3	111	26.2	26.2	7.6	7.6	23.1	23.1	67.8	67.8	4.8	4.8	2.6	2.6	3	3		
						8.2	0.4	112	26.2	26.2	7.6	7.6	23.1	23.1	67.8	67.8	4.8	4.8	2.6	2.6	2	2		
11-Aug-16	Fine	Moderate	14:23	8.2	Surface	1.0	0.3	208	26.5	26.6	7.8	7.8	17.8	17.8	85.0	84.7	6.2	6.1	1.0	1.0	<2	<2	822127	807585
						1.0	0.3	216	26.6	26.6	7.8	7.8	17.7	17.7	84.3	84.3	6.1	6.1	1.0	1.0	<2	<2		
					Middle	4.1	0.3	191	25.5	25.5	7.7	7.7	25.8	25.8	59.0	58.6	4.2	4.1	1.3	1.4	<2	<2		
						4.1	0.3	191	25.5	25.5	7.7	7.7	25.8	25.8	58.2	58.2	4.1	4.1	1.4	1.4	<2	<2		
					Bottom	7.2	0.3	122	23.4	23.4	7.7	7.7	30.6	30.6	42.5	43.0	3.0	3.0	8.0	8.0	3	3		
						7.2	0.4	129	23.4	23.4	7.7	7.7	30.6	30.6	43.5	43.0	3.1	3.1	7.8	7.8	4	4		
13-Aug-16	Fine	Moderate	15:35	7.6	Surface	1.0	0.4	187	26.7	26.7	7.7	7.7	18.6	18.6	75.0	74.8	5.4	5.4	2.1	2.2	3	4	822139	807583
						1.0	0.4	192	26.6	26.6	7.7	7.7	18.6	18.6	74.5	74.5	5.4	5.4	2.2	2.2	4	4		
					Middle	3.8	0.3	201	25.3	25.3	7.7	7.7	24.4	24.4	57.0	57.0	4.1	4.1	1.5	1.5	2	3		
						3.8	0.3	212	25.3	25.3	7.7	7.7	24.4	24.4	56.9	56.9	4.1	4.1	1.5	1.5	3	3		
					Bottom	6.6	0.1	201	23.8	23.9	7.8	7.8	29.9	29.9	48.8	49.1	3.5	3.5	3.2	3.0	3	2		
						6.6	0.1	220	23.9	23.9	7.8	7.8	29.9	29.9	49.4	49.4	3.5	3.5	3.0	3.0	2	2		
16-Aug-16	Cloudy	Moderate	17:35	8.7	Surface	1.0	0.4	195	25.3	25.3	7.7	7.7	21.0	21.0	56.5	56.6	4.1	4.1	3.4	3.5	3	2	822137	807575
						1.0	0.4	213	25.3	25.3	7.7	7.7	21.0	21.0	56.6	56.6	4.1	4.1	3.5	3.5	2	2		
					Middle	4.4	0.3	233	24.9	24.9	7.7	7.7	23.3	23.3	59.3	59.4	4.3	4.3	5.9	6.0	3	4		
						4.4	0.4	245	24.9	24.9	7.7	7.7	23.3	23.3	59.4	59.4	4.3	4.3	6.0	6.0	4	4		
					Bottom	7.7	0.3	201	24.8	24.8	7.8	7.8	24.5	24.5	62.0	62.0	4.5	4.5	9.6	9.6	3	3		
						7.7	0.3	213	24.8	24.8	7.8	7.8	24.5	24.5	62.0	62.0	4.5	4.5	9.6	9.6	3	3		
18-Aug-16	Cloudy	Rough	18:33	7.6	Surface	1.0	0.9	190	25.7	25.7	7.7	7.7	21.2	21.2	63.3	63.3	4.6	4.6	6.8	6.8	6	6	822142	807578
						1.0	1.0	191	25.7	25.7	7.7	7.7	21.2	21.2	63.2	63.2	4.6	4.6	6.9	6.9	6	6		
					Middle	3.8	0.8	202	25.3	25.3	7.7	7.7	22.8	22.8	63.0	63.1	4.5	4.5	9.7	9.7	7	7		
						3.8	0.9	214	25.3	25.3	7.7	7.7	22.8	22.8	63.1	63.1	4.5	4.5	9.7	9.7	7	7		
					Bottom	6.6	0.8	209	25.2	25.2	7.7	7.7	24.5	24.5	68.0	68.0	4.9	4.9	13.2	13.2	11	11		
						6.6	0.8	220	25.2	25.2	7.7	7.7	24.5	24.5	68.0	68.0	4.9	4.9	13.2	13.2	13	13		
20-Aug-16	Moderate	Fine	07:56	9.7	Surface	1.0	0.4	240	26.2	26.2	7.6	7.6	20.0	20.0	67.2	67.2	4.8	4.8	4.0	4.0	2	2	822137	807589
						1.0	0.4	247	26.2	26.2	7.6	7.6	20.0	20.0	67.2	67.2	4.8	4.8	4.0	4.0	2	2		
					Middle	4.9	0.5	271	26.0	26.0	7.6	7.6	20.7	20.7	67.5	67.6	4.9	4.9	3.0	3.0	2	2		
						4.9	0.6	293	26.0	26.0	7.6	7.6	20.7	20.7	67.6	67.6	4.9	4.9	3.0	3.0	2	2		
					Bottom	8.7	0.3	181	25.9	25.9	7.6	7.6	21.8	21.8	69.3	69.4	5.0	5.0	4.0	4.0	2	2		
						8.7	0.3	185	25.9	25.9	7.6	7.6	21.8	21.8	69.4	69.4	5.0	5.0	4.0	4.0	3	3		
23-Aug-16	Sunny	Moderate	10:34	9.1	Surface	1.0	0.4	247	27.3	27.3	7.7	7.7	17.3	17.3	70.2	70.2	5.1	5.1	2.7	2.7	3	4	822156	807568
						1.0	0.4	263	27.3	27.3	7.7	7.7	17.3	17.3	70.1	70.1	5.1	5.1	2.7	2.7	4	4		
					Middle	4.6	0.8	196	27.0	27.0	7.7	7.7	18.7	18.7	69.0	69.0	5.0	5.0	3.0	3.0	3	3		
						4.6	0.8	210	27.0	27.0	7.7	7.7	18.7	18.7	69.0	69.0	5.0	5.0	3.0	3.0	3	3		
					Bottom	8.1	2.7	111	26.7	26.7	7.7	7.7	20.5	20.5	69.2	69.2	4.9	4.9	3.9	3.9	4	4		
						8.1	2.8	119	26.7	26.7	7.7	7.7	20.5	20.5	69.2	69.2	4.9	4.9	3.9	3.9	3	3		
25-Aug-16	Fine	Moderate	13:06	9.1	Surface	1.0	0.4	233	29.4	29.4	7.7	7.7	15.8	15.8	67.4	67.4	4.7	4.7	3.5	3.6	3	3	822133	807552
						1.0	0.4	240	29.4	29.4	7.7	7.7	15.8	15.8	67.4	67.4	4.7	4.7	3.6	3.6	3	3		
					Middle	4.6	1.0	123	28.5	28.5	7.8	7.8	21.3	21.3	63.5	63.5	4.4	4.4	4.4	4.4	3	3		
						4.6	1.1	130	28.5	28.5	7.8	7.8	21.3	21.3	63.5	63.5	4.4	4.4	4.4	4.4	3	3		
					Bottom	8.1	1.0	176	28.3	28.3	7.8	7.8	22.4	22.4	63.7	63.8	4.4	4.4	6.4	6.3	3	4		
						8.1	1.1	176	28.3	28.3	7.8	7.8	22.4	22.4	63.8	63.8	4.4	4.4	6.3	6.3	4	4		
27-Aug-16	Cloudy	Moderate	14:58	8.6	Surface	1.0	0.4	206	29.8	29.8	7.8	7.8	15.7	15.7	79.9	79.8	5.6	5.6	4.9	4.9	4	4	822146	807551
						1.0	0.5	219	29.8	29.8	7.8	7.8	15.7	15.7	79.7	79.7	5.6	5.6	4.9	4.9	4	4		
					Middle	4.3	0.4	200	28.3	28.3	7.8	7.8	23.8	23.8	63.4	63.4	4.3	4.3	6.5	6.6	4	4		
						4.3	0.4	209	28.3	28.3	7.8	7.8	23.8	23.8	63.3	63.3	4.3	4.3	6.6	6.6	4	4		
					Bottom	7.6	0.3	178	28.2	28.2	7.8	7.8	24.6	24.6	64.7									

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

Water Quality Monitoring Results at SR4A during Mid-Flood Tide

Date	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 (mg/L)		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
4-Aug-16	Fine	Moderate	21:30	8.0	Surface	1.0	0.3	171	26.8	7.7	7.7	23.9	23.9	75.6	75.6	5.3	5.3	13.7	13	15.6	21	817182	807820	
						1.0	0.3	174	26.9	7.7	7.7	23.8	23.8	75.5	75.5	5.3	5.3	13.5	13					
					Middle	4.0	0.3	183	26.8	7.7	7.7	24.6	24.6	75.0	75.0	5.2	5.2	16.8	21					
						4.0	0.3	183	26.8	7.7	7.7	24.6	24.6	75.0	75.0	5.2	5.2	16.6	21					
					Bottom	7.0	0.3	161	26.8	7.7	7.7	24.7	24.7	75.3	75.3	5.3	5.3	16.3	27					
						7.0	0.3	173	26.8	7.7	7.7	24.7	24.7	75.7	75.7	5.3	5.3	16.8	28					
6-Aug-16	Sunny	Calm	07:56	8.1	Surface	1.0	0.5	250	27.3	7.6	7.6	23.7	23.7	66.3	66.3	4.6	4.6	4.9	5	6.4	7	817170	807822	
						1.0	0.5	252	27.3	7.6	7.6	23.7	23.7	66.2	66.2	4.6	4.6	4.9	6					
					Middle	4.1	0.5	243	27.1	7.7	7.7	24.4	24.4	63.3	63.3	4.4	4.4	5.4	6					
						4.1	0.5	265	27.1	7.7	7.7	24.5	24.5	63.1	63.1	4.4	4.4	5.7	7					
					Bottom	7.1	0.4	246	26.0	7.7	7.7	27.5	27.5	58.8	59.0	4.1	4.1	8.5	8					
						7.1	0.4	257	26.1	7.7	7.7	27.5	27.5	59.2	59.2	4.1	4.1	8.7	8					
9-Aug-16	Fine	Moderate	10:24	9.2	Surface	1.0	0.2	238	29.3	8.0	8.0	20.9	20.9	115.7	115.2	7.9	7.9	12.5	10	14.5	16	817191	807814	
						1.0	0.2	242	29.3	8.0	8.0	20.8	20.8	114.7	114.7	7.8	7.8	12.2	10					
					Middle	4.6	0.3	250	28.7	8.0	8.0	22.2	22.2	101.1	101.0	6.9	6.9	15.9	19					
						4.6	0.3	262	28.7	8.0	8.0	22.2	22.2	100.9	101.0	6.9	6.9	16.1	18					
					Bottom	8.2	0.3	246	25.8	7.7	7.7	29.1	29.1	58.3	58.5	4.0	4.0	15.0	18					
						8.2	0.3	252	25.8	7.7	7.7	29.1	29.1	58.6	58.6	4.1	4.1	15.1	18					
11-Aug-16	Rainy	Moderate	12:31	7.6	Surface	1.0	0.4	252	27.5	7.8	7.8	21.6	21.6	71.7	71.5	5.0	5.0	2.7	3	4.8	4	817188	807826	
						1.0	0.4	269	27.4	7.8	7.8	21.6	21.6	71.2	71.5	5.0	5.0	3.0	4					
					Middle	3.8	0.4	242	26.6	7.8	7.8	25.7	25.7	55.7	55.6	3.9	3.9	4.1	4					
						3.8	0.4	251	26.7	7.8	7.8	25.6	25.6	55.4	55.4	3.9	3.9	3.9	4					
					Bottom	6.6	0.3	235	25.2	7.8	7.8	30.3	30.3	48.6	49.2	3.4	3.4	7.4	5					
						6.6	0.4	252	24.9	7.8	7.8	30.6	30.5	49.8	49.8	3.5	3.5	7.9	5					
13-Aug-16	Cloudy	Moderate	16:41	8.6	Surface	1.0	0.3	195	28.4	7.9	7.9	19.2	19.2	89.2	89.2	6.2	6.2	9.6	8	9.4	12	817172	807804	
						1.0	0.3	211	28.4	7.9	7.9	19.2	19.2	89.1	89.2	6.2	6.2	9.5	7					
					Middle	4.3	0.3	220	27.1	7.8	7.8	23.8	23.9	63.0	63.0	4.4	4.4	8.4	12					
						4.3	0.3	236	27.0	7.7	7.8	24.0	23.9	62.9	63.0	4.4	4.4	8.5	12					
					Bottom	7.6	0.3	241	25.2	7.7	7.7	30.1	30.1	42.1	42.4	2.9	3.0	10.0	16					
						7.6	0.4	241	25.2	7.7	7.7	30.1	30.1	42.6	42.6	3.0	3.0	10.6	17					
16-Aug-16	Cloudy	Calm	18:37	8.2	Surface	1.0	0.3	227	26.7	7.8	7.8	25.2	25.2	67.1	67.1	4.7	4.7	15.3	23	16.7	24	817184	807812	
						1.0	0.3	248	26.7	7.8	7.8	25.2	25.2	67.1	67.1	4.7	4.7	15.4	22					
					Middle	4.1	0.2	216	26.6	7.8	7.8	25.7	25.7	62.1	62.2	4.3	4.3	16.8	23					
						4.1	0.3	235	26.6	7.8	7.8	25.7	25.7	62.2	62.2	4.3	4.3	16.7	23					
					Bottom	7.2	0.2	179	26.3	7.7	7.7	26.6	26.6	54.6	54.8	3.8	3.8	18.1	27					
						7.2	0.2	183	26.3	7.7	7.7	26.6	26.6	55.0	54.8	3.8	3.8	18.1	28					
18-Aug-16	Moderate	Rainy	20:30	7.9	Surface	1.0	0.5	244	26.5	7.8	7.8	26.1	26.1	82.6	82.6	5.7	5.7	19.6	53	26.0	54	817201	807808	
						1.0	0.5	267	26.5	7.8	7.8	26.1	26.1	82.6	82.6	5.7	5.7	19.7	52					
					Middle	4.0	0.5	255	26.6	7.8	7.8	26.3	26.3	82.0	82.0	5.7	5.7	26.0	54					
						4.0	0.5	260	26.6	7.8	7.8	26.3	26.3	82.0	81.8	5.7	5.7	25.8	55					
					Bottom	6.9	0.5	245	26.7	7.8	7.8	26.2	26.2	81.8	81.8	5.7	5.7	32.4	55					
						6.9	0.5	266	26.6	7.8	7.8	26.2	26.2	81.8	81.8	5.7	5.7	32.6	57					
20-Aug-16	Fine	Calm	07:19	9.2	Surface	1.0	0.4	242	27.0	7.7	7.7	25.4	25.5	74.3	74.3	5.1	5.1	8.3	10	10.6	14	817176	807800	
						1.0	0.5	261	27.0	7.7	7.7	25.5	25.5	74.3	74.3	5.1	5.1	8.3	11					
					Middle	4.6	0.4	244	27.1	7.7	7.7	25.5	25.5	74.3	74.3	5.1	5.1	9.2	16					
						4.6	0.4	265	27.1	7.7	7.7	25.4	25.4	74.3	74.3	5.1	5.1	9.2	15					
					Bottom	8.2	0.3	248	27.2	7.7	7.7	25.3	25.3	74.7	74.7	5.1	5.1	14.3	16					
						8.2	0.4	264	27.3	7.7	7.7	25.3	25.3	74.7	74.7	5.1	5.1	14.3	17					
23-Aug-16	Sunny	Calm	09:33	8.3	Surface	1.0	0.3	240	28.3	7.7	7.7	23.5	23.5	74.8	74.8	5.1	5.1	7.3	11	8.9	13	817201	807806	
						1.0	0.4	240	28.3	7.7	7.7	23.5	23.5	74.8	74.8	5.1	5.1	7.4	10					
					Middle	4.2	0.3	239	28.3	7.7	7.7	23.6	23.6	73.9	73.9	5.0	5.0	8.5	14					
						4.2	0.3	242	28.3	7.7	7.7	23.6	23.6	73.8	73.9	5.0	5.0	8.3	14					
					Bottom	7.3	0.2	217	28.1	7.8	7.8	25.0	25.0	73.4	73.6	5.0	5.0	11.4	15					
						7.3	0.3	221	28.1	7.8	7.8	25.0	25.0	73.7	73.6	5.0	5.0	10.5	15					
25-Aug-16	Sunny	Moderate	12:17	8.6	Surface	1.0	0.2	198	28.9	7.8	7.8	23.5	23.5	86.2	86.2	5.8	5.8	3.4	9	5.4	11	817201	807798	
						1.0	0.2	213	28.9	7.8	7.8	23.5	23.5	86.2	86.2	5.8	5.8	3.3	7					
					Middle	4.3	0.2	190	28.5	7.8	7.8	24.2	24.2	75.7	75.6	5.1	5.1	5.6	12					
						4.3	0.2	206	28.5	7.8	7.8	24.2	24.2	75.4	75.6	5.1	5.1	5.5	11					
					Bottom	7.6	0.2	193	27.6	7.8	7.8	27.1	27.1	68.2	68.2	4.6	4.6	7.2	15					
						7.6	0.2	205	27.6	7.8	7.8	27.1	27.1	68.2	68.2	4.6	4.6	7.4	14					
27-Aug-16	Cloudy	Calm	16:06	8.9	Surface	1.0	0.3	159	30.0	8.2	8.2	21.7	21.7	141.1	141.1	9.5	9.5	6.1	11	7.5	12	817188	807810	
						1.0	0.3	164	30.1	8.2	8.2	21.7	21.7	141.0	141.1	9.5	9.5	6.2	10					
					Middle	4.5	0.3	179	29.2	8.1	8.1	23.4	23.4	113.7	113.7	7.7	7.7	7.0	12					
						4.5	0.3	189	29.2	8.1	8.1	23.4	23.4	113.7	113.7	7.7	7.7	7.0	13					
					Bottom	7.9	0.3	219	27.6	7.8	7.8	27.5	27.5	64.4	64.5	4.4	4.4	9.2	13					
						7.9	0.3	229	27.6	7.8	7.8	27.5	27.5	64.5	64.5	4.4	4.4	9.3	12					
30-Aug-16	Cloudy	Moderate	18:55	9.0	Surface	1.0	0.3	184	27.8	7.9	7.9	28.2	28.2	76.6	76.6	5.1	5.1	10.9	20	13.3	26	817172	807794	
						1.0	0.3	192	27.8	7.9	7.9	28.2	28.2	76.6	76.6	5.1	5.1	11.0	21					
					Middle	4.5	0.2	189	27.8	7.9	7.9	28.2	28.2	76.5	76.5	5.1	5.1	14.0	24					
						4.5	0.2	194	27.8	7.9	7.9	28.2	28.2	76.5	76.5	5.1	5.1	14.0	26					
					Bottom	8.0	0.2	186	27.8	7.9	7.9	28.2	28.2	76.1	76.2	5.1	5.1	14.8	31					
						8.0	0.2	188	27.8	7.9	7.9	28.2	28.2	76.2	76.2	5.1	5.1	15.3	31					

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 at SR5A during Mid-Flood Tide**

Date	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 (mg/L)		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA						
4-Aug-16	Fine	Calm	21:55	4.7	Surface	1.0	0.1	117	26.8	26.8	7.7	7.7	24.4	24.3	77.0	77.0	5.4	5.4	8.0	7.8	7	7	9	816585	810689			
						1.0	0.1	118	26.8	7.7	7.7	24.3	24.3	77.0	77.0	5.4	5.4	7.8	7.8	7	7							
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						3.7	0.1	110	26.8	26.8	7.7	7.7	24.4	24.4	78.4	78.7	5.5	5.5	7.5	7.7	9	11						
						3.7	0.1	119	26.8	26.8	7.7	7.7	24.4	24.4	79.0	78.7	5.5	5.5	7.7	7.7	9	11						
6-Aug-16	Sunny	Calm	07:31	5.2	Surface	1.0	0.4	295	27.5	27.5	7.6	7.6	24.0	24.0	65.3	65.3	4.5	4.5	8.0	8.2	8	9	13	816575	810704			
						1.0	0.4	305	27.5	27.5	7.6	7.6	23.9	24.0	65.3	65.3	4.5	4.5	8.2	8.2	9	9						
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						4.2	0.4	297	27.4	27.4	7.6	7.6	24.0	24.1	66.8	67.0	4.6	4.7	20.8	20.8	16	17						
						4.2	0.4	318	27.4	27.4	7.6	7.6	24.1	24.1	67.2	67.0	4.7	4.7	20.8	20.8	16	17						
9-Aug-16	Fine	Moderate	10:08	4.6	Surface	1.0	0.3	272	28.4	28.3	7.9	7.9	23.3	23.4	103.1	103.7	7.0	7.1	7.1	7.2	7	8	9	816610	810707			
						1.0	0.3	288	28.2	28.3	7.9	7.9	23.4	23.4	104.2	103.7	7.1	7.1	7.2	7.2	8	8						
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						3.6	0.3	290	27.6	27.6	7.8	7.8	24.9	24.9	96.7	97.1	6.6	6.7	13.1	13.1	10	10						
						3.6	0.3	301	27.6	27.6	7.8	7.8	24.9	24.9	97.5	97.1	6.7	6.7	13.1	13.1	10	10						
11-Aug-16	Rainy	Moderate	12:06	4.5	Surface	1.0	0.1	332	27.3	27.5	7.8	7.8	22.1	22.0	67.7	66.9	4.7	4.7	2.4	2.3	3	3	6	816596	810713			
						1.0	0.1	364	27.7	27.5	7.8	7.8	21.9	22.0	66.1	66.9	4.6	4.6	2.3	2.3	3	3						
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						3.5	0.2	318	26.0	26.0	7.7	7.7	28.1	28.1	54.1	55.0	3.8	3.9	5.2	5.4	9	9						
						3.5	0.2	326	26.0	26.0	7.7	7.7	28.1	28.1	55.8	55.0	3.9	3.9	5.4	5.4	9	9						
13-Aug-16	Cloudy	Moderate	16:58	3.3	Surface	1.0	0.2	288	28.5	28.5	7.9	7.9	19.5	19.5	95.5	95.5	6.7	6.7	9.4	9.4	6	5	6	816582	810699			
						1.0	0.2	288	28.5	28.5	7.9	7.9	19.5	19.5	95.5	95.5	6.7	6.7	9.4	9.4	5	5						
						1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-		
					Middle	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.3	0.2	275	28.1	28.1	7.9	7.9	20.7	20.8	87.1	87.0	6.1	6.1	20.1	18.1	5	6						
						2.3	0.2	280	28.1	28.1	7.9	7.9	20.8	20.8	86.9	87.0	6.1	6.1	18.1	18.1	6	6						
16-Aug-16	Cloudy	Calm	18:55	3.8	Surface	1.0	0.2	297	27.0	27.0	7.9	7.9	24.7	24.7	89.6	89.8	6.2	6.2	17.8	17.4	25	24	26	816612	810687			
						1.0	0.2	322	27.0	27.0	7.9	7.9	24.7	24.7	89.9	89.8	6.2	6.2	17.4	17.4	24	24						
						1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-		
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.8	0.2	282	26.7	26.7	7.8	7.8	25.6	25.6	76.1	76.2	5.3	5.3	16.7	16.2	26	27						
						2.8	0.2	285	26.7	26.7	7.8	7.8	25.6	25.6	76.3	76.2	5.3	5.3	16.2	16.2	27	27						
18-Aug-16	Moderate	Cloudy	20:55	4.7	Surface	1.0	0.5	268	26.7	26.7	7.9	7.9	26.5	26.5	85.0	85.0	5.9	5.9	11.9	12.0	16	15	16	816583	810679			
						1.0	0.5	278	26.7	26.7	7.9	7.9	26.5	26.5	85.0	85.0	5.9	5.9	12.0	12.0	15	15						
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-		
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						3.7	0.4	264	26.7	26.7	7.9	7.9	26.4	26.4	85.5	85.6	5.9	5.9	12.6	12.6	16	15						
						3.7	0.5	265	26.7	26.7	7.9	7.9	26.4	26.4	85.6	85.6	5.9	5.9	12.6	12.6	15	15						
20-Aug-16	Fine	Calm	07:02	3.5	Surface	1.0	0.4	283	27.0	27.0	7.7	7.7	25.8	25.8	75.7	75.8	5.2	5.2	14.0	13.8	24	24	24	816609	810691			
						1.0	0.4	306	27.0	27.0	7.7	7.7	25.8	25.8	75.8	75.8	5.2	5.2	13.8	13.8	24	24						
						1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-		
						2.5	0.3	289	27.0	27.0	7.7	7.7	25.9	25.9	76.4	76.5	5.3	5.3	16.5	17.6	23	23						
						2.5	0.3	301	27.0	27.0	7.7	7.7	25.9	25.9	76.6	76.5	5.3	5.3	17.6	17.6	23	23						
23-Aug-16	Sunny	Calm	09:16	3.3	Surface	1.0	0.3	298	28.4	28.5	7.7	7.7	23.0	23.0	75.3	75.3	5.1	5.1	7.2	7.0	10	10	11	816599	810680			
						1.0	0.3	318	28.5	28.5	7.7	7.7	23.0	23.0	75.2	75.3	5.1	5.1	7.0	7.0	10	10						
						1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-		
						2.3	0.3	291	28.4	28.4	7.7	7.7	23.0	23.1	75.2	75.3	5.1	5.1	7.7	8.3	11	11						
						2.3	0.3	298	28.4	28.4	7.7	7.7	23.1	23.1	75.3	75.3	5.1	5.1	8.3	8.3	11	11						
25-Aug-16	Sunny	Moderate	11:55	4.3	Surface	1.0	0.4	310	29.3	29.3	8.0	8.0	22.6	22.6	91.5	91.5	6.2	6.2	5.4	5.5	9	8	9	816597	810690			
						1.0	0.4	313	29.3	29.3	8.0	8.0	22.6	22.6	91.5	91.5	6.2	6.2	5.5	5.5	8	8						
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-		
						3.3	0.3	310	28.7	28.7	7.9	7.9	23.3	23.3	82.8	82.8	5.6	5.6	9.8	9.6	9	10						
						3.3	0.4	321	28.7	28.7	7.9	7.9	23.3	23.3	82.7	82.8	5.6	5.6	9.6	9.6	10	10						
27-Aug-16	Cloudy	Calm	16:24	3.1	Surface	1.0	0.1	278	30.3	30.3	8.4	8.4	20.5	20.5	173.4	173.4	11.7	11.6	3.3	3.5	10	10	14	816577	810711			
						1.0	0.2	304	30.3	30.3	8.4	8.4	20.5	20.5	173.3	173.4	11.6	11.6	3.5	3.5	10	10						
						1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-		
						2.1	0.1	278	29.6	29.6	8.2	8.2	22.0	22.0	134.0	134.0	9.0	9.0	7.4	7.5	17	18						
						2.1	0.1	280	29.6	29.6	8.2	8.2	22.0	22.0	134.0	134.0	9.0	9.0	7.5	7.5	18	18						
30-Aug-16	Cloudy	Calm	19:16	3.5	Surface	1.0	0.2	271	27.8	27.8	7.9	7.9	28.1	28.1	75.5	75.5	5.1	5.1	9.6	9.8	13	14	15	816607	810696			
						1.0	0.2	271	27.8	27.8	7.9	7.9	28.1	28.1	75.4	75.5	5.1	5.1	9.8	9.8	14	14						
						1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	1.8	-																					

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

Water Quality Monitoring Results at SR6 during Mid-Flood Tide

Date	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 (mg/L)		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)			
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA							
4-Aug-16	Fine	Calm	22:26	4.2	Surface	1.0	0.1	154	27.0	27.0	7.7	7.7	22.9	22.9	77.5	77.5	5.4	5.4	6.2	7.4	7	8	817904	814681			
						1.0	0.1	164	27.0	7.7	7.7	22.9	22.9	77.5	77.5	5.4	5.4	6.3	7								
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	3.2	0.1	113	26.9	26.9	7.7	7.7	23.3	23.3	76.8	77.0	5.4	5.4	8.5	8.4	8				8		
						3.2	0.1	114	26.9	26.9	7.7	7.7	23.3	23.3	77.2	77.0	5.4	5.4	8.4	8							
6-Aug-16	Fine	Calm	07:00	4.2	Surface	1.0	0.2	261	27.5	27.5	7.6	7.6	22.7	22.7	68.5	68.5	4.8	4.8	2.7	3.4	2	4	817886	814650			
						1.0	0.2	283	27.5	27.5	7.6	7.6	22.7	22.7	68.5	68.5	4.8	4.8	2.8	4							
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.2	0.2	240	27.5	27.5	7.6	7.6	23.5	23.5	68.7	69.0	4.8	4.8	4.1	4.0	4				4		
						3.2	0.2	255	27.5	27.5	7.6	7.6	23.5	23.5	69.2	69.0	4.8	4.8	4.0	5							
9-Aug-16	Fine	Moderate	09:46	5.1	Surface	1.0	0.2	185	29.6	29.6	8.1	8.1	21.1	21.1	124.6	122.4	8.5	8.3	6.9	8.5	5	22	817912	814669			
						1.0	0.2	192	29.6	29.6	8.1	8.1	21.1	21.1	120.1	122.4	8.1	8.3	7.5	6							
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	4.1	0.1	207	29.3	29.2	8.0	8.0	21.5	21.6	111.3	110.6	7.6	7.6	9.4	9.3	37				37		
						4.1	0.1	222	29.0	29.0	8.0	8.0	21.7	21.6	109.8	110.6	7.5	7.6	10.0	9.3	38				38		
11-Aug-16	Rainy	Moderate	11:35	4.0	Surface	1.0	0.1	206	27.8	27.8	7.8	7.8	22.1	22.2	74.1	74.1	5.2	5.2	9.0	9.3	11	14	817887	814664			
						1.0	0.2	210	27.8	27.8	7.8	7.8	22.2	22.2	74.0	74.1	5.1	5.2	9.0	10							
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.0	0.1	231	27.3	27.3	7.7	7.7	25.4	25.3	61.8	62.1	4.3	4.3	9.8	9.3	17				17		
						3.0	0.2	252	27.3	27.3	7.7	7.7	25.2	25.3	62.4	62.1	4.3	4.3	9.3	17							
13-Aug-16	Cloudy	Moderate	17:22	3.8	Surface	1.0	0.1	225	28.9	29.0	8.0	8.0	19.4	19.4	109.6	109.7	7.6	7.6	6.7	8.0	8	9	817909	814646			
						1.0	0.1	245	29.0	29.0	8.0	8.0	19.3	19.4	109.8	109.7	7.6	7.6	6.6	7							
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	2.8	0.1	134	28.4	28.4	7.8	7.8	20.9	20.9	90.9	91.0	6.3	6.3	9.4	9.4	11				11		
						2.8	0.1	141	28.4	28.4	7.8	7.8	20.9	20.9	91.0	91.0	6.3	6.3	9.4	11							
16-Aug-16	Rainy	Calm	19:20	3.9	Surface	1.0	0.1	203	27.0	27.0	7.9	7.9	24.0	24.0	88.0	88.1	6.1	6.1	7.7	8.3	13	15	817883	814657			
						1.0	0.1	210	27.0	27.0	7.9	7.9	24.0	24.0	88.1	88.1	6.1	6.1	7.8	15							
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	2.9	0.1	211	27.0	27.0	7.9	7.9	24.2	24.3	87.3	87.2	6.1	6.1	8.8	8.7	16				16		
						2.9	0.1	223	27.0	27.0	7.9	7.9	24.3	24.3	87.1	87.2	6.0	6.1	8.7	17							
18-Aug-16	Moderate	Cloudy	21:26	4.3	Surface	1.0	0.2	220	26.2	26.2	7.8	7.8	27.8	27.8	71.4	71.4	4.9	4.9	12.9	14.0	20	20	817888	814668			
						1.0	0.2	230	26.2	26.2	7.8	7.8	27.8	27.8	71.4	71.4	4.9	4.9	13.2	19							
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.3	0.1	186	26.2	26.2	7.8	7.8	27.8	27.8	72.4	72.6	5.0	5.0	14.7	15.0	20				20		
						3.3	0.1	186	26.2	26.2	7.8	7.8	27.8	27.8	72.7	72.6	5.0	5.0	15.0	20							
20-Aug-16	Cloudy	Calm	06:39	4.1	Surface	1.0	0.2	234	27.3	27.3	7.6	7.6	24.0	24.0	73.6	73.6	5.1	5.1	5.8	6.7	7	8	817904	814665			
						1.0	0.2	234	27.3	27.3	7.6	7.6	24.0	24.0	73.6	73.6	5.1	5.1	5.8	7							
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.1	0.2	233	27.2	27.2	7.6	7.6	24.6	24.7	74.1	74.9	5.1	5.2	7.2	7.9	8				8		
						3.1	0.2	239	27.1	27.2	7.6	7.6	24.7	24.7	75.6	74.9	5.2	5.2	7.9	8							
23-Aug-16	Sunny	Calm	08:53	4.2	Surface	1.0	0.2	275	28.2	28.2	7.7	7.7	22.5	22.5	72.5	72.5	5.0	5.0	7.3	8.4	10	14	817883	814681			
						1.0	0.3	278	28.2	28.2	7.7	7.7	22.5	22.5	72.5	72.5	5.0	5.0	7.4	10							
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.2	0.1	262	28.3	28.3	7.7	7.7	22.8	22.8	71.8	71.8	4.9	4.9	9.3	9.7	18				16		
						3.2	0.2	268	28.3	28.3	7.7	7.7	22.8	22.8	71.8	71.8	4.9	4.9	9.7	16							
25-Aug-16	Sunny	Cloudy	11:33	4.2	Surface	1.0	0.2	240	29.1	29.1	7.9	7.9	21.9	21.9	85.7	85.6	5.8	5.8	4.3	6.6	14	15	817914	814668			
						1.0	0.3	244	29.1	29.1	7.9	7.9	21.9	21.9	85.5	85.6	5.8	5.8	4.5	16							
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.2	0.2	243	29.0	29.0	7.9	7.9	22.0	22.0	83.5	83.8	5.7	5.7	8.7	8.8	15				15		
						3.2	0.2	248	29.0	29.0	7.9	7.9	22.0	22.0	84.0	83.8	5.7	5.7	8.8	15							
27-Aug-16	Cloudy	Moderate	16:52	4.1	Surface	1.0	0.2	175	29.5	29.5	8.1	8.1	21.0	21.0	128.6	128.7	8.7	8.7	14.1	22.5	27	27	817917	814653			
						1.0	0.2	192	29.5	29.5	8.1	8.1	21.0	21.0	128.8	128.7	8.7	8.7	14.1	27							
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.1	0.2	153	29.1	29.1	8.0	8.0	22.1	22.1	105.1	105.2	7.1	7.1	29.5	32.2	27				27		
						3.1	0.2	156	29.1	29.1	8.0	8.0	22.1	22.1	105.2	105.2	7.1	7.1	32.2	28							
30-Aug-16	Fine	Calm	19:43	4.3	Surface	1.0	0.1	206	27.7	27.7	7.9	7.9	27.9	28.0	76.2	76.0	5.1	5.1	7.5	8.3	12	13	817915	814656			
						1.0	0.1	220	27.7	27.7	7.9	7.9	28.0	28.0	75.8	76.0	5.1	5.1	7.6	12							
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.3	0.1	218	27.6	27.6	7.9	7.9	28.1	28.1	74.9	75.0	5.0	5.0	9.1	9.1	14				14		
						3.3	0.1	238	27.6	27.6	7.9	7.9	28.1	28.1	75.0	75.0	5.0	5.0	8.9	15							

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or

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

Water Quality Monitoring Results at SR7 during Mid-Flood Tide

Date	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 (mg/L)		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)			
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA					
4-Aug-16	Cloudy	Moderate	22:09	17.4	Surface	1.0	0.2	222	24.0	24.0	7.7	7.7	27.7	27.7	61.1	61.0	4.4	4.4	5.1	5.1	8.9	11	12	823625	823761		
						1.0	0.2	229	24.0	7.7	7.7	27.7	27.7	61.0	61.0	4.4	4.4	5.1	5.1								
					Middle	8.7	0.1	187	23.3	23.3	7.7	7.7	29.9	29.9	59.9	59.9	4.3	4.3	8.9	8.9						10	10
						8.7	0.1	191	23.3	23.3	7.7	7.7	29.9	29.9	59.9	59.9	4.3	4.3	8.9	8.9						10	10
					Bottom	16.4	0.2	102	23.2	23.2	7.7	7.7	30.3	30.3	63.7	63.7	4.6	4.6	12.6	12.6						16	16
						16.4	0.2	105	23.2	23.2	7.7	7.7	30.3	30.3	63.7	63.7	4.6	4.6	12.6	12.6						15	15
6-Aug-16	Cloudy	Calm	07:00	17.1	Surface	1.0	0.2	208	26.0	26.0	7.5	7.5	22.3	22.3	65.5	65.5	4.7	4.7	2.9	2.9	4.3	4	823652	823722			
						1.0	0.2	212	26.0	26.0	7.5	7.5	22.3	22.3	65.5	65.5	4.7	4.7	2.9	2.9							
					Middle	8.6	0.2	191	25.6	25.6	7.6	7.6	24.3	24.3	62.7	62.7	4.5	4.5	3.6	3.6					3	3	
						8.6	0.2	193	25.6	25.6	7.6	7.6	24.3	24.3	62.6	62.6	4.5	4.5	3.6	3.6					5	5	
					Bottom	16.1	0.2	128	23.7	23.8	7.7	7.7	29.9	29.9	58.5	58.6	4.2	4.2	6.5	6.5					4	4	
						16.1	0.2	134	23.8	23.8	7.6	7.7	29.9	29.9	58.6	58.6	4.2	4.2	6.5	6.5					3	3	
9-Aug-16	Fine	Calm	09:00	16.3	Surface	1.0	0.3	199	26.5	26.5	7.8	7.8	23.1	23.1	80.2	80.2	5.7	5.7	1.1	1.1	2.0	7	823632	823732			
						1.0	0.3	217	26.5	26.5	7.8	7.8	23.1	23.1	80.2	80.2	5.7	5.7	1.1	1.1							
					Middle	8.2	0.3	210	25.7	25.7	7.8	7.8	25.8	25.8	70.9	70.9	5.0	5.0	1.4	1.4					3	3	
						8.2	0.4	228	25.7	25.7	7.8	7.8	25.7	25.7	70.8	70.8	5.0	5.0	1.5	1.5					2	2	
					Bottom	15.3	0.3	174	24.0	24.0	7.8	7.8	30.6	30.6	64.0	64.6	4.5	4.5	3.5	3.5					13	13	
						15.3	0.3	181	24.0	24.0	7.8	7.8	30.6	30.6	65.2	64.6	4.6	4.6	3.2	3.2					15	15	
11-Aug-16	Rainy	Moderate	11:48	15.6	Surface	1.0	0.4	257	25.9	25.9	7.7	7.7	22.3	22.3	75.0	75.0	5.4	5.4	1.0	1.0	4.1	6	823621	823741			
						1.0	0.4	261	25.9	25.9	7.7	7.7	22.3	22.3	74.9	75.0	5.4	5.4	1.0	1.0							
					Middle	7.8	0.2	237	24.5	24.5	7.8	7.8	27.6	27.6	63.7	63.5	4.5	4.5	2.2	2.2					2	2	
						7.8	0.2	242	24.5	24.5	7.8	7.8	27.6	27.6	63.2	63.5	4.5	4.5	2.2	2.2					2	2	
					Bottom	14.6	0.2	245	23.4	23.4	7.8	7.8	31.0	31.0	53.9	54.2	3.8	3.8	9.1	9.1					14	14	
						14.6	0.2	254	23.4	23.4	7.7	7.8	31.0	31.0	54.4	54.2	3.9	3.9	9.3	9.3					15	15	
13-Aug-16	Fine	Moderate	18:04	16.7	Surface	1.0	0.2	171	24.7	24.7	7.9	7.9	27.7	27.7	77.2	77.4	5.5	5.5	0.9	0.9	2.9	3	823652	823725			
						1.0	0.2	185	24.7	24.7	7.9	7.9	27.7	27.7	77.5	77.4	5.5	5.5	0.8	0.8							
					Middle	8.4	0.2	165	23.7	23.7	7.9	7.9	30.7	30.7	60.6	60.5	4.3	4.3	1.7	1.7					2	2	
						8.4	0.2	174	23.7	23.7	7.9	7.9	30.7	30.7	60.4	60.5	4.3	4.3	1.8	1.8					4	4	
					Bottom	15.7	0.2	207	22.7	22.7	7.9	7.9	33.5	33.5	49.9	50.2	3.5	3.5	5.8	5.8					3	3	
						15.7	0.2	207	22.7	22.7	7.9	7.9	33.5	33.5	50.4	50.2	3.6	3.6	6.1	6.1					4	4	
16-Aug-16	Cloudy	Moderate	19:52	16.0	Surface	1.0	0.2	206	23.7	23.7	7.9	7.9	28.8	28.8	59.7	59.7	4.3	4.3	3.0	3.0	4.3	7	823649	823722			
						1.0	0.2	224	23.7	23.7	7.9	7.9	28.8	28.8	59.7	59.7	4.3	4.3	3.1	3.1							
					Middle	8.0	0.2	176	23.4	23.4	8.0	8.0	29.5	29.5	59.4	59.4	4.3	4.3	8.2	8.2					7	7	
						8.0	0.2	185	23.3	23.3	8.0	8.0	29.5	29.5	59.4	59.4	4.3	4.3	7.6	7.6					6	6	
					Bottom	15.0	0.1	190	23.1	23.1	7.9	7.9	30.6	30.6	61.6	61.6	4.4	4.4	10.9	10.9					10	10	
						15.0	0.2	205	23.1	23.1	7.9	7.9	30.6	30.6	61.6	61.6	4.4	4.4	10.9	10.9					10	10	
18-Aug-16	Cloudy	Rough	20:57	18.3	Surface	1.0	0.2	255	24.2	24.2	7.8	7.8	28.8	28.8	61.7	61.8	4.4	4.4	6.6	6.6	4.5	10	823631	823722			
						1.0	0.2	279	24.2	24.2	7.8	7.8	28.8	28.8	61.8	61.8	4.4	4.4	6.4	6.4							
					Middle	9.2	0.2	136	24.1	24.1	7.8	7.8	29.4	29.4	63.4	63.4	4.5	4.5	10.5	10.5					12	12	
						9.2	0.2	145	24.1	24.1	7.8	7.8	29.4	29.4	63.4	63.4	4.5	4.5	10.5	10.5					11	11	
					Bottom	17.3	0.2	100	24.1	24.1	7.8	7.8	29.7	29.7	64.4	64.4	4.6	4.6	13.3	13.3					14	14	
						17.3	0.2	106	24.1	24.1	7.8	7.8	29.7	29.7	64.4	64.4	4.6	4.6	13.1	13.1					15	15	
20-Aug-16	Cloudy	Calm	06:07	16.4	Surface	1.0	0.2	237	25.6	25.6	7.8	7.8	24.9	24.9	72.2	72.2	5.1	5.1	3.4	3.4	4.7	5	823649	823737			
						1.0	0.2	253	25.6	25.6	7.8	7.8	24.9	24.9	72.2	72.2	5.1	5.1	3.4	3.4							
					Middle	8.2	0.3	188	25.5	25.5	7.8	7.8	25.6	25.6	71.3	71.3	5.0	5.0	4.1	4.1					5	5	
						8.2	0.3	196	25.5	25.5	7.8	7.8	25.6	25.6	71.3	71.3	5.0	5.0	4.2	4.2					5	5	
					Bottom	15.4	0.2	111	25.0	25.0	7.7	7.7	27.9	27.9	70.5	70.5	5.0	5.0	6.6	6.6					6	6	
						15.4	0.2	114	25.0	25.0	7.7	7.7	27.9	27.9	70.5	70.5	5.0	5.0	6.6	6.6					6	6	
23-Aug-16	Sunny	Calm	08:37	17.8	Surface	1.0	0.3	202	26.4	26.4	7.8	7.8	23.1	23.1	69.9	69.9	4.9	4.9	3.2	3.2	4.9	7	823623	823742			
						1.0	0.3	204	26.4	26.4	7.8	7.8	23.1	23.1	69.9	69.9	4.9	4.9	3.2	3.2							
					Middle	8.9	0.6	194	26.1	26.1	7.8	7.8	25.2	25.2	67.8	67.8	4.8	4.8	6.3	6.3					4	4	
						8.9	0.7	212	26.1	26.1	7.8	7.8	25.2	25.2	67.7	67.8	4.8	4.8	6.5	6.5					4	4	
					Bottom	16.8	0.9	239	25.6	25.6	7.9	7.9	28.2	28.2	66.5	66.5	4.6	4.6	11.3	11.3					4	4	
						16.8	0.9	261	25.6	25.6	7.9	7.9	28.2	28.2	66.5	66.5	4.6	4.6	11.5	11.5					6	6	
25-Aug-16	Fine	Cloudy	11:06	16.7	Surface	1.0	0.2	210	28.8	28.8	7.8	7.8	22.3	22.3	73.5	73.5	5.0	5.0	2.2	2.2	4.6	2	823650	823742			
						1.0	0.2	223	28.8	28.8	7.8	7.8	22.3	22.3	73.4	73.5	5.0	5.0	2.2	2.2							
					Middle	8.4	0.2	171	27.8	27.8	7.8	7.8	25.7	25.8	61.8	61.8	4.2	4.2	3.6	3.6					2	2	
						8.4	0.2	185	27.8	27.8	7.8	7.8	25.8	25.8	61.7	61.8	4.2	4.2	3.7	3.7					2	2	
					Bottom	15.7	2.4	160	27.5	27.5	7.8	7.8	27.1	27.1	60.9	60.9	4.1	4.1	2.7	2.7					3	3	
						15.7	2.6	168	27.5	27.5	7.8	7.8	27.1	27.1	60.9	60.9	4.1	4.1	2.7	2.7					3	3	
27-Aug-16	Cloudy	Calm	16:53	17.0	Surface	1.0	0.2	170	27.8	27.8	8.0	8.0	27.3	27.3	73.7	73.7	5.0	5.0	3.4	3.4	4.4	7	823648	823734			
						1.0	0.2	174	27.8	27.8	8.0	8.0	27.3	27.3	73.7	73.7	5.0	5.0	3.4	3.4							
					Middle	8.5	0.2	169	27.1	27.1	7.9	7.9	29.4	29.5	56.5	56.5	3.8	3.8	8.6	8.6					5	5	
						8.5	0.2	174	27.0	27.0	7.9	7.9	29.5	29.5	56.5	56.0	3.8	3.8	8.6	8.6					6	6	
					Bottom	16.0	0.2	175	26.6	26.6	7.9	7.9	30.8	30.8	56.0	56.0	3.8	3.8	9.7	9							

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

Water Quality Monitoring

Water Quality Monitoring Results at C1 during Mid-Ebb Tide

Date	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)			Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	13:49	8.9	Surface	1.0	0.7	226	26.0	26.0	7.8	7.8	27.2	27.2	72.9	72.9	5.1	4.7	4.7	6	88	96	815625	804263	<0.2	<0.2	1.1	0.9	
						1.0	0.7	239	26.0	26.0	7.8	7.8	27.2	27.2	72.8	72.9	5.1	4.6	7	7	90	96	<0.2	<0.2	1.2	0.8			
						4.5	0.7	208	24.9	24.9	7.8	7.8	29.6	29.6	59.8	59.8	4.2	8.4	6	6	101	99	<0.2	<0.2	0.8	0.8			
					Middle	4.5	0.8	210	24.9	24.9	7.8	7.8	29.6	29.6	59.8	59.8	4.2	8.9	6	6	99	96	<0.2	<0.2	0.8	0.8			
						7.9	0.6	220	24.6	24.6	7.8	7.8	30.8	30.8	59.8	60.0	4.2	40.5	43	43	100	100	<0.2	<0.2	0.6	0.6			
						7.9	0.6	227	24.6	24.6	7.8	7.8	30.8	30.8	60.1	60.0	4.2	38.9	43	43	101	101	<0.2	<0.2	0.6	0.6			
6-Aug-16	Sunny	Moderate	14:48	8.5	Surface	1.0	0.4	153	28.1	28.2	7.7	7.7	22.6	22.2	74.9	74.9	5.2	2.0	2.0	3	84	95	815637	804256	<0.2	<0.2	2.0	1.3	
						1.0	0.4	162	28.2	28.2	7.7	7.7	21.8	22.2	74.9	74.9	5.2	1.7	2	2	87	95	<0.2	<0.2	2.0	1.3			
						4.3	0.6	73	25.3	25.3	7.7	7.7	29.6	29.6	54.6	54.5	3.8	8.2	3	3	96	96	<0.2	<0.2	1.2	1.3			
					Middle	4.3	0.6	78	25.3	25.3	7.7	7.7	29.6	29.6	54.4	54.5	3.8	8.8	3	3	96	96	<0.2	<0.2	1.2	1.3			
						7.5	0.5	98	24.7	24.8	7.7	7.7	31.0	31.0	54.2	54.4	3.8	20.6	14	14	103	103	<0.2	<0.2	0.6	0.6			
						7.5	0.6	104	24.8	24.8	7.7	7.7	31.0	31.0	54.5	54.4	3.8	18.9	14	14	103	103	<0.2	<0.2	0.6	0.7			
9-Aug-16	Cloudy	Moderate	16:20	7.9	Surface	1.0	0.5	184	29.4	29.4	8.0	8.0	16.9	16.7	91.8	91.0	6.4	2.1	3	3	87	94	815621	804228	<0.2	<0.2	2.9	1.6	
						1.0	0.6	184	29.3	29.4	8.0	8.0	16.5	16.7	90.1	91.0	6.3	2.2	4	4	89	94	<0.2	<0.2	2.8	1.4			
						4.0	0.3	185	25.1	24.9	7.8	7.8	31.1	31.3	52.6	52.8	3.6	2.7	5	5	92	94	<0.2	<0.2	1.4	1.4			
					Middle	4.0	0.3	192	24.6	24.6	7.8	7.8	31.4	31.3	52.9	52.8	3.7	2.9	4	4	94	100	<0.2	<0.2	1.4	0.5			
						6.9	0.2	199	24.5	24.6	7.8	7.8	32.3	32.3	49.5	49.7	3.4	11.2	17	17	100	100	<0.2	<0.2	0.5	0.5			
						6.9	0.2	202	24.6	24.6	7.8	7.8	32.3	32.3	49.9	49.7	3.5	11.1	16	16	100	100	<0.2	<0.2	0.5	0.5			
11-Aug-16	Sunny	Moderate	18:21	8.0	Surface	1.0	0.4	239	28.3	28.4	7.8	7.8	18.1	18.0	88.6	88.7	6.2	1.2	<2	3	75	91	815635	804266	<0.2	<0.2	3.6	2.0	
						1.0	0.4	258	28.4	28.4	7.8	7.8	17.8	18.0	88.8	88.7	6.3	1.1	<2	3	73	91	<0.2	<0.2	4.1	1.5			
						4.0	0.3	157	24.9	24.9	7.8	7.8	30.7	30.7	52.5	52.4	3.7	2.4	2	2	95	93	<0.2	<0.2	1.7	1.7			
					Middle	4.0	0.3	171	24.9	24.9	7.8	7.8	30.7	30.7	52.3	52.4	3.6	2.5	3	3	93	107	<0.2	<0.2	1.7	0.5			
						7.0	0.3	171	24.2	24.2	7.8	7.8	32.8	32.8	41.9	42.1	2.9	5.8	6	6	107	104	<0.2	<0.2	0.5	0.4			
						7.0	0.3	177	24.2	24.2	7.8	7.8	32.8	32.8	42.3	42.1	2.9	5.9	6	6	104	104	<0.2	<0.2	0.4	0.4			
13-Aug-16	Sunny	Moderate	09:08	8.5	Surface	1.0	0.4	205	28.1	28.1	7.7	7.7	19.4	19.5	71.5	71.5	5.0	2.0	2	2	72	85	815605	804250	<0.2	<0.2	3.0	1.8	
						1.0	0.4	222	28.0	28.1	7.7	7.7	19.5	19.5	71.5	71.5	5.0	2.1	2	2	70	90	<0.2	<0.2	2.8	1.4			
						4.3	0.5	206	25.8	25.6	7.8	7.8	28.5	28.7	49.6	49.7	3.4	2.8	3	3	90	92	<0.2	<0.2	1.4	1.5			
					Middle	4.3	0.5	217	25.3	25.6	7.8	7.8	28.8	28.7	49.8	49.7	3.5	2.7	2	2	92	92	<0.2	<0.2	1.5	1.2			
						7.5	0.5	224	24.8	24.8	7.8	7.8	32.1	32.1	45.8	45.8	3.2	5.8	3	3	92	95	<0.2	<0.2	1.2	0.9			
						7.5	0.5	228	24.8	24.8	7.8	7.8	32.1	32.1	45.8	45.8	3.2	5.9	4	4	95	95	<0.2	<0.2	0.9	0.9			
16-Aug-16	Rainy	Moderate	11:26	8.2	Surface	1.0	0.6	224	26.6	26.5	7.9	7.9	25.4	25.5	74.3	74.5	5.2	3.2	3	3	80	89	815619	804230	<0.2	<0.2	1.2	0.9	
						1.0	0.7	240	26.3	26.5	7.9	7.9	25.6	25.5	74.7	74.5	5.2	3.3	2	2	78	91	<0.2	<0.2	1.2	1.0			
						4.1	0.6	214	25.2	25.3	7.8	7.8	30.5	30.5	50.3	50.4	3.5	6.4	4	4	91	93	<0.2	<0.2	0.9	0.6			
					Middle	4.1	0.7	222	25.3	25.3	7.8	7.8	30.5	30.5	50.4	50.4	3.5	6.5	3	3	93	97	<0.2	<0.2	0.9	0.6			
						7.2	0.5	223	25.1	25.1	7.8	7.8	31.1	31.1	49.0	49.2	3.4	15.7	31	32	97	96	<0.2	<0.2	0.6	0.6			
						7.2	0.5	241	25.1	25.1	7.8	7.8	31.1	31.1	49.4	49.2	3.4	16.1	32	32	96	96	<0.2	<0.2	0.6	0.6			
20-Aug-16	Sunny	Moderate	13:37	8.3	Surface	1.0	0.7	219	27.1	27.4	7.9	7.9	26.3	26.2	80.1	79.8	5.5	5.1	8	8	92	97	815630	804257	<0.2	<0.2	1.9	1.0	
						1.0	0.7	228	27.6	27.4	7.9	7.9	26.1	26.2	79.5	79.8	5.4	4.9	6	6	95	99	<0.2	<0.2	1.1	0.8			
						4.2	0.7	213	26.6	26.9	7.9	7.9	29.4	29.3	76.8	76.5	5.2	26.5	35	34	99	98	<0.2	<0.2	0.8	0.8			
					Middle	4.2	0.8	213	27.1	26.9	7.9	7.9	29.1	29.3	76.2	76.5	5.1	26.0	34	34	98	96	<0.2	<0.2	0.8	0.8			
						7.3	0.6	212	26.6	26.8	7.9	7.9	29.4	29.3	76.6	76.4	5.2	87.9	54	54	96	99	<0.2	<0.2	0.8	0.8			
						7.3	0.7	223	27.0	26.8	7.9	7.9	29.1	29.3	76.1	76.4	5.1	88.8	54	54	99	99	<0.2	<0.2	0.8	0.8			
23-Aug-16	Cloudy	Moderate	16:02	8.9	Surface	1.0	0.3	214	28.4	28.4	7.9	7.9	23.8	23.8	84.1	84.0	5.7	3.4	4	4	94	96	815624	804258	<0.2	<0.2	1.9	1.1	
						1.0	0.3	235	28.4	28.4	7.9	7.9	23.8	23.8	83.9	84.0	5.7	3.5	5	5	93	94	<0.2	<0.2	1.8	0.9			
						4.5	0.4	200	27.5	27.5	7.9	7.9	28.4	28.5	77.7	77.7	5.2	4.9	7	7	94	95	<0.2	<0.2	0.9	0.8			
					Middle	4.5	0.4	211	27.5	27.5	7.9	7.9	28.5	28.5	77.6	77.7	5.2	5.0	7	7	95	102	<0.2	<0.2	0.8	0.7			
						7.9	0.4	198	27.2	27.2	7.9	7.9	30.0	30.0	73.1	73.2	4.9	9.7	8	8	102	99	<0.2	<0.2	0.7	0.6			
						7.9	0.4	213	27.2	27.2	7.9	7.9	30.0	30.0	73.2	73.2	4.9	9.7	9	9	99	99	<0.2	<0.2	0.6	0.6			
25-Aug-16	Sunny	Moderate	17:51	8.6	Surface	1.0	0.4	227	29.5	29.5	7.9	7.9	19.1	19.1	89.3	89.2	6.1	1.8	4	4	82	93	815621	804244	<0.2	<0.2	2.7	1.6	
						1.0	0.4	233	29.4	29.5	7.9	7.9	19.1	19.1	89.0	89.2	6.1	1.9	5	5	79	100	<0.2	<0.2	2.8	1.1			
						4.3	0.3	184	27.2	27.2	7.9	7.9	29.0	29.0	68.9	68.8	4.6	1.9	4	4	100	97	<0.2	<0.2	1.0	1.1			
					Middle	4.3	0.3	196	27.2	27.2	7.9	7.9	29.0	29.0	68.7	68.8	4.6	2.0	5	5	97	98	<0.2	<0.2	1.1	1.1			
						7.6	0.3	192	26.7	26.7	7.9	7.9	30.7	30.7	63.4	63.7	4.3	6.7	9	9	98	100	<0.2	<0.2	1.1	0.9			
						7.6	0.3	198	26.7	26.7	7.9	7.9	30.7	30.7	63.9	63.7	4.3	6.9	9	9	100	100	<0.2	<0.2	0.9	0.9			
27-Aug-16	Cloudy	Moderate	08:08	8.9	Surface	1.0	0.5	228	28.7	28.7	7.9	7.9	20.4	20.4	79.4	79.4	5.5	1.1	4	4	95	97	815622	804262	<0.2	<0.2	1.7	1.0	
						1.0	0.5	235	28.7	28.7	7.8	7.9	20.4	20.4	79.3	79.4	5.5	1.2	4	4	92	96	<0.2	<0.2	1.4	0.8			
						4.5	0.6	207	26.8	26.8	7.9	7.9	30.4																

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

Water Quality Monitoring

Water Quality Monitoring Results at C2 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	15:17	11.6	Surface	1.0	1.0	177	26.3	26.3	7.7	7.7	21.0	21.0	81.1	81.0	5.8	5.5	6.4	6	83	88	825700	806959	<0.2	<0.2	2.3	2.1		
						1.0	1.0	179	26.3	26.3	7.7	7.7	21.0	21.0	81.0	81.0	5.8	5.5	6.5	7	84	88	825700	806959	<0.2	<0.2	2.4	2.1		
						5.8	0.9	178	25.4	25.4	7.7	7.7	22.9	22.9	72.1	72.1	5.2	4.9	18.2	7	87	88	825700	806959	<0.2	<0.2	2.3	2.1		
					5.8	1.0	179	25.4	25.4	7.7	7.7	22.9	22.9	72.1	72.1	5.2	4.9	18.1	7	89	88	825700	806959	<0.2	<0.2	2.3	2.1			
					10.6	0.5	165	24.7	24.7	7.7	7.7	25.8	25.8	68.9	68.9	4.9	4.4	14.7	16	90	88	825700	806959	<0.2	<0.2	1.8	2.1			
					10.6	0.5	173	24.7	24.7	7.7	7.7	25.8	25.8	68.9	68.9	4.9	4.4	14.7	17	92	88	825700	806959	<0.2	<0.2	1.6	2.1			
6-Aug-16	Sunny	Moderate	13:33	12.3	Surface	1.0	0.4	181	27.7	27.7	7.5	7.5	17.9	17.9	71.0	71.0	5.1	4.8	3.0	2	82	88	825701	806953	<0.2	<0.2	4.2	3.0		
						1.0	0.4	193	27.7	27.7	7.5	7.5	17.9	17.9	71.0	71.0	5.1	4.8	3.0	2	85	88	825701	806953	<0.2	<0.2	4.0	3.0		
						6.2	0.4	175	25.8	25.8	7.5	7.5	23.2	23.2	61.3	61.3	4.4	4.4	9.0	5	87	88	825701	806953	<0.2	<0.2	2.5	3.0		
					6.2	0.4	176	25.8	25.8	7.5	7.5	23.2	23.2	61.3	61.3	4.4	4.4	9.2	6	89	88	825701	806953	<0.2	<0.2	2.4	3.0			
					11.3	0.4	154	25.0	25.0	7.5	7.5	27.2	27.2	61.8	61.8	4.4	4.4	16.1	6	92	88	825701	806953	<0.2	<0.2	2.6	3.0			
					11.3	0.4	163	25.0	25.0	7.5	7.5	27.2	27.2	61.8	61.8	4.4	4.4	16.1	5	92	88	825701	806953	<0.2	<0.2	2.5	3.0			
9-Aug-16	Cloudy	Moderate	15:14	12.4	Surface	1.0	0.2	167	27.5	27.5	7.6	7.6	18.6	18.6	79.2	79.1	5.6	5.2	1.8	3	81	88	825701	806945	<0.2	<0.2	3.3	2.9		
						1.0	0.3	176	27.5	27.5	7.6	7.6	18.6	18.6	78.9	79.1	5.6	5.2	1.7	3	84	88	825701	806945	<0.2	<0.2	3.3	2.9		
						6.2	0.3	185	26.0	26.1	7.6	7.6	25.6	25.6	66.8	66.9	4.7	4.7	2.3	4	90	88	825701	806945	<0.2	<0.2	3.4	2.9		
					6.2	0.3	190	26.1	26.1	7.6	7.6	25.6	25.6	66.9	66.9	4.7	4.7	2.4	3	89	88	825701	806945	<0.2	<0.2	3.1	2.9			
					11.4	0.5	168	24.9	24.9	7.6	7.6	28.2	28.2	61.6	61.7	4.3	4.3	7.4	4	92	88	825701	806945	<0.2	<0.2	2.0	2.9			
					11.4	0.5	174	24.9	24.9	7.6	7.6	28.2	28.2	61.7	61.7	4.3	4.3	7.4	4	92	88	825701	806945	<0.2	<0.2	2.2	2.9			
11-Aug-16	Fine	Moderate	17:08	10.9	Surface	1.0	0.1	190	25.9	25.9	7.7	7.7	23.5	23.5	74.8	74.8	5.3	4.7	0.5	<2	85	87	825670	806945	<0.2	<0.2	1.8	1.6		
						1.0	0.1	204	25.9	25.9	7.7	7.7	23.5	23.5	74.7	74.8	5.3	4.7	0.5	<2	82	87	825670	806945	<0.2	<0.2	1.7	1.6		
						5.5	0.1	225	24.9	24.9	7.7	7.7	27.5	27.5	58.3	58.3	4.1	4.1	0.8	<2	85	87	825670	806945	<0.2	<0.2	1.7	1.6		
					5.5	0.1	232	24.9	24.9	7.7	7.7	27.4	27.5	58.2	58.3	4.1	4.1	0.8	<2	87	87	825670	806945	<0.2	<0.2	2.1	1.6			
					9.9	0.2	190	23.9	23.9	7.6	7.6	29.8	29.8	48.5	48.7	3.4	3.5	5.1	5	90	87	825670	806945	<0.2	<0.2	1.3	1.6			
					9.9	0.2	208	23.9	23.9	7.6	7.6	29.8	29.8	48.9	48.7	3.5	3.5	5.2	6	93	87	825670	806945	<0.2	<0.2	1.2	1.6			
13-Aug-16	Fine	Moderate	10:37	10.4	Surface	1.0	0.9	172	26.5	26.5	7.7	7.7	18.8	18.8	69.6	69.8	5.0	4.5	1.8	3	82	86	825691	806953	<0.2	<0.2	3.7	2.7		
						1.0	1.0	179	26.5	26.5	7.7	7.7	18.8	18.8	69.9	69.8	5.1	4.5	1.9	2	83	86	825691	806953	<0.2	<0.2	3.5	2.7		
						5.2	0.6	167	25.2	25.2	7.7	7.7	25.6	25.5	55.6	55.6	4.0	4.0	1.7	3	87	86	825691	806953	<0.2	<0.2	2.9	2.7		
					5.2	0.6	170	25.2	25.2	7.7	7.7	25.4	25.5	55.6	55.6	4.0	4.0	1.8	2	86	86	825691	806953	<0.2	<0.2	2.8	2.7			
					9.4	0.6	167	24.5	24.5	7.8	7.8	28.5	28.5	57.2	57.5	3.1	3.1	1.0	3	88	86	825691	806953	<0.2	<0.2	1.7	2.7			
					9.4	0.6	181	24.5	24.5	7.8	7.8	28.5	28.5	57.7	57.5	3.1	3.1	1.0	3	90	86	825691	806953	<0.2	<0.2	1.7	2.7			
16-Aug-16	Cloudy	Moderate	13:11	11.2	Surface	1.0	1.2	169	25.8	25.8	7.8	7.8	19.3	19.3	62.3	62.3	4.5	4.3	4.5	2	83	89	825692	806954	<0.2	<0.2	3.0	2.0		
						1.0	1.3	178	25.8	25.8	7.8	7.8	19.3	19.3	62.2	62.3	4.5	4.3	4.6	2	87	89	825692	806954	<0.2	<0.2	2.6	2.0		
						5.6	0.9	171	24.0	24.0	7.9	7.9	28.3	28.3	57.3	57.4	4.1	4.1	17.8	4	90	89	825692	806954	<0.2	<0.2	1.9	2.0		
					5.6	1.0	174	24.0	24.0	7.8	7.9	28.3	28.3	57.4	57.4	4.1	4.1	17.8	3	90	89	825692	806954	<0.2	<0.2	1.8	2.0			
					10.2	0.4	160	23.9	23.9	7.9	7.9	28.6	28.6	60.7	60.7	4.3	4.3	20.9	7	92	89	825692	806954	<0.2	<0.2	1.3	2.0			
					10.2	0.4	164	23.9	23.9	7.9	7.9	28.6	28.6	60.7	60.7	4.3	4.3	20.9	7	92	89	825692	806954	<0.2	<0.2	1.4	2.0			
20-Aug-16	Fine	Moderate	12:31	12.4	Surface	1.0	0.7	183	26.1	26.1	7.6	7.6	22.5	22.5	67.9	67.9	4.8	4.8	5.9	3	82	88	825678	806940	<0.2	<0.2	2.6	2.6		
						1.0	0.8	183	26.1	26.1	7.6	7.6	22.5	22.5	67.9	67.9	4.8	4.8	5.9	3	78	88	825678	806940	<0.2	<0.2	2.9	2.6		
						6.2	0.7	177	25.6	25.6	7.7	7.7	24.4	24.5	67.7	67.8	4.8	4.8	7.3	5	90	88	825678	806940	<0.2	<0.2	2.5	2.6		
					6.2	0.7	180	25.6	25.6	7.7	7.7	24.5	24.5	67.8	67.8	4.8	4.8	7.3	5	89	88	825678	806940	<0.2	<0.2	2.9	2.6			
					11.4	0.4	161	25.1	25.1	7.7	7.7	27.4	27.4	70.0	70.1	4.9	5.0	6.3	10	93	88	825678	806940	<0.2	<0.2	2.4	2.6			
					11.4	0.5	161	25.1	25.1	7.7	7.7	27.4	27.4	70.1	70.1	5.0	5.0	6.4	8	93	88	825678	806940	<0.2	<0.2	2.2	2.6			
23-Aug-16	Sunny	Moderate	14:42	12.4	Surface	1.0	0.3	162	28.1	28.1	7.7	7.7	15.5	15.5	74.4	74.4	5.3	5.2	4.0	3	81	88	825692	806929	<0.2	<0.2	2.9	2.7		
						1.0	0.3	163	28.1	28.1	7.7	7.7	15.5	15.5	74.4	74.4	5.3	5.2	4.0	2	82	88	825692	806929	<0.2	<0.2	2.7	2.7		
						6.2	0.3	120	26.9	26.9	7.8	7.8	18.8	18.9	69.6	69.6	5.0	4.9	6.3	4	90	88	825692	806929	<0.2	<0.2	3.1	2.7		
					6.2	0.4	126	26.9	26.9	7.8	7.8	18.9	18.9	69.5	69.5	5.0	4.9	6.5	3	89	88	825692	806929	<0.2	<0.2	3.0	2.7			
					11.4	0.4	188	26.1	26.1	7.8	7.8	24.3	24.3	68.9	68.9	4.9	4.9	8.6	7	93	88	825692	806929	<0.2	<0.2	2.4	2.7			
					11.4	0.4	201	26.1	26.1	7.8	7.8	24.3	24.3	68.9	68.9	4.9	4.9	8.6	6	92	88	825692	806929	<0.2	<0.2	2.2	2.7			
25-Aug-16	Fine	Moderate	16:41	12.3	Surface	1.0	0.2	168	29.2	29.2	7.7	7.7	19.2	19.2	67.1	67.1	4.6	4.5	2.9	2	82	88	825675	806940	<0.2	<0.2	3.2			

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

Water Quality Monitoring

Water Quality Monitoring Results at C3 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	
4-Aug-16	Cloudy	Moderate	12:53	12.8	Surface	1.0	0.4	71	25.3	25.3	7.7	7.7	25.1	25.1	73.0	72.9	5.2	5.0	3.4	7.9	4	5	82	87	822106	817783	<0.2	<0.2	1.6	1.4	
						1.0	0.4	74	25.3	25.3	7.7	7.7	25.1	25.1	72.9	72.9	5.2	5.0	3.5	7.9	4	5	83	87			<0.2	<0.2	1.5		
					Middle	6.4	0.4	92	24.4	24.4	7.7	7.7	27.2	27.2	66.3	66.2	4.7	4.5	5.6	4.5	5.8	4	5	88			89	<0.2	<0.2		1.4
						6.4	0.4	99	24.4	24.4	7.7	7.7	27.2	27.2	66.2	66.2	4.7	4.5	5.8	4.5	5.8	5	5	89			89	<0.2	<0.2		1.3
					Bottom	11.8	0.3	92	23.9	23.9	7.7	7.7	28.0	28.0	63.0	63.0	4.5	4.5	14.7	4.5	14.7	5	5	92			90	<0.2	<0.2		1.1
						11.8	0.3	98	23.9	23.9	7.7	7.7	28.0	28.0	63.0	63.0	4.5	4.5	14.7	4.5	14.7	5	5	90			90	<0.2	<0.2		1.2
6-Aug-16	Sunny	Moderate	15:32	11.2	Surface	1.0	0.3	127	25.7	25.7	7.7	7.7	24.8	24.8	67.4	67.4	4.8	4.8	3.9	4.4	4	4	85	89	822117	817814	<0.2	<0.2	2.0	2.0	
						1.0	0.3	135	25.7	25.7	7.7	7.7	24.8	24.8	67.4	67.4	4.8	4.8	4.0	4.4	3	4	86	89			<0.2	<0.2	2.0		
					Middle	5.6	0.2	133	25.7	25.7	7.7	7.7	25.1	25.1	66.8	66.8	4.7	4.6	3.9	4.6	3.9	4	4	89			89	<0.2	<0.2		2.1
						5.6	0.2	137	25.7	25.7	7.7	7.7	25.1	25.1	66.8	66.8	4.7	4.6	3.9	4.6	3.9	4	4	89			89	<0.2	<0.2		2.1
					Bottom	10.2	0.2	92	25.5	25.5	7.7	7.7	25.7	25.7	65.2	65.2	4.6	4.6	5.5	4.6	5.4	4	4	92			92	<0.2	<0.2		2.0
						10.2	0.2	96	25.5	25.5	7.7	7.7	25.7	25.7	65.2	65.2	4.6	4.6	5.4	4.6	5.4	4	4	92			92	<0.2	<0.2		1.9
9-Aug-16	Cloudy	Moderate	17:17	13.2	Surface	1.0	0.2	183	27.1	27.1	7.9	7.9	21.0	21.0	94.9	94.9	6.7	6.4	3.3	2.6	2	4	85	89	822117	817816	<0.2	<0.2	2.6	2.5	
						1.0	0.2	188	27.1	27.1	7.9	7.9	21.0	21.0	94.9	94.9	6.7	6.4	3.3	2.6	4	4	86	89			<0.2	<0.2	2.5		
					Middle	6.6	0.3	228	26.5	26.5	7.8	7.8	23.5	23.6	85.7	85.7	6.0	5.7	2.2	5.7	2.3	5	4	91			89	<0.2	<0.2		2.5
						6.6	0.3	238	26.5	26.5	7.8	7.8	23.6	23.6	85.7	85.7	6.0	5.7	2.3	5.7	2.3	3	4	89			89	<0.2	<0.2		2.7
					Bottom	12.2	0.2	162	25.8	25.8	7.8	7.8	25.6	25.6	80.2	80.3	5.7	5.7	2.3	5.7	2.3	6	4	93			92	<0.2	<0.2		2.3
						12.2	0.2	178	25.8	25.8	7.8	7.8	25.6	25.6	80.3	80.3	5.7	5.7	2.3	5.7	2.3	4	4	92			92	<0.2	<0.2		2.3
11-Aug-16	Fine	Moderate	19:23	11.2	Surface	1.0	0.3	99	26.3	26.4	7.8	7.8	22.5	22.5	90.6	90.6	6.4	5.7	0.5	0.8	<2	3	89	92	822103	817809	<0.2	<0.2	1.6	1.4	
						1.0	0.3	101	26.4	26.4	7.8	7.8	22.5	22.5	90.5	90.5	6.4	5.7	0.5	0.8	<2	3	90	92			<0.2	<0.2	1.9		
					Middle	5.6	0.2	160	25.0	25.0	7.8	7.8	27.1	27.0	70.9	70.8	5.0	4.6	0.6	4.6	0.6	3	3	92			94	<0.2	<0.2		1.3
						5.6	0.2	164	25.0	25.0	7.8	7.8	26.9	27.0	70.6	70.8	5.0	4.6	0.6	4.6	0.6	3	3	94			94	<0.2	<0.2		1.4
					Bottom	10.2	0.2	216	23.6	23.6	7.8	7.8	31.5	31.5	64.8	64.9	4.6	4.6	1.2	4.6	1.2	3	2	94			94	<0.2	<0.2		1.0
						10.2	0.2	237	23.6	23.6	7.8	7.8	31.5	31.5	64.9	64.9	4.6	4.6	1.2	4.6	1.2	2	2	94			94	<0.2	<0.2		0.9
13-Aug-16	Fine	Moderate	08:13	11.7	Surface	1.0	0.2	113	26.1	26.1	7.8	7.8	21.3	21.2	79.4	79.2	5.7	5.3	0.7	1.0	<2	2	85	89	822125	817804	<0.2	<0.2	3.5	2.4	
						1.0	0.2	122	26.1	26.1	7.8	7.8	21.1	21.1	79.0	79.0	5.7	5.3	0.7	1.0	<2	2	85	89			<0.2	<0.2	3.6		
					Middle	5.9	0.3	83	24.8	24.8	7.8	7.8	26.9	26.9	67.7	67.8	4.8	4.6	0.6	4.6	0.6	2	2	88			90	<0.2	<0.2		2.4
						5.9	0.3	86	24.8	24.8	7.8	7.8	26.9	26.9	67.8	67.8	4.8	4.6	0.6	4.6	0.6	2	2	90			90	<0.2	<0.2		1.4
					Bottom	10.7	0.3	70	23.8	23.9	7.8	7.8	30.1	30.0	63.9	64.1	4.5	4.6	1.6	4.6	1.6	2	2	92			93	<0.2	<0.2		2.2
						10.7	0.3	72	23.9	23.9	7.8	7.8	29.9	30.0	64.2	64.1	4.5	4.6	1.6	4.6	1.6	2	2	93			93	<0.2	<0.2		1.4
16-Aug-16	Rainy	Moderate	10:46	12.3	Surface	1.0	0.5	112	24.7	24.7	7.9	7.9	25.0	25.0	75.0	75.0	5.4	5.2	2.0	2.9	4	4	85	89	822092	817790	<0.2	<0.2	1.5	1.4	
						1.0	0.5	120	24.7	24.7	7.9	7.9	25.0	25.0	75.0	75.0	5.4	5.2	2.0	2.9	3	4	84	89			<0.2	<0.2	1.2		
					Middle	6.2	0.3	84	24.4	24.4	7.9	7.9	26.6	26.6	69.3	69.3	5.0	4.9	3.2	4.9	3.2	4	4	90			89	<0.2	<0.2		1.5
						6.2	0.3	86	24.4	24.4	7.9	7.9	26.6	26.6	69.2	69.3	5.0	4.9	3.2	4.9	3.2	4	4	89			89	<0.2	<0.2		1.5
					Bottom	11.3	0.3	73	24.0	24.0	7.9	7.9	28.1	28.1	67.9	67.9	4.9	4.9	3.6	4.9	3.6	3	4	93			91	<0.2	<0.2		1.5
						11.3	0.3	75	24.0	24.0	7.9	7.9	28.1	28.1	67.9	67.9	4.9	4.9	3.6	4.9	3.6	4	4	91			91	<0.2	<0.2		1.3
20-Aug-16	Fine	Moderate	14:10	12.3	Surface	1.0	0.6	145	25.7	25.7	7.9	7.9	25.7	25.7	73.4	73.4	5.2	5.2	5.6	6.1	7	7	85	90	822128	817822	<0.2	<0.2	2.0	1.9	
						1.0	0.6	145	25.7	25.7	7.9	7.9	25.7	25.7	73.4	73.4	5.2	5.2	5.7	6.1	5.9	6	7	86			90	<0.2	<0.2		2.2
					Middle	6.2	0.4	135	25.4	25.4	7.8	7.8	26.6	26.6	72.3	72.3	5.1	5.1	5.9	5.2	5.9	7	7	90			90	<0.2	<0.2		1.8
						6.2	0.4	138	25.4	25.4	7.8	7.8	26.6	26.6	72.3	72.3	5.1	5.1	5.9	5.2	5.9	7	7	90			90	<0.2	<0.2		1.8
					Bottom	11.3	0.5	79	25.4	25.4	7.8	7.8	26.8	26.8	73.1	73.1	5.2	5.2	6.6	5.2	6.6	6	8	94			93	<0.2	<0.2		1.7
						11.3	0.5	84	25.4	25.4	7.8	7.8	26.8	26.8	73.1	73.1	5.2	5.2	6.6	5.2	6.6	8	8	93			93	<0.2	<0.2		1.7
23-Aug-16	Fine	Moderate	16:21	12.3	Surface	1.0	0.4	130	26.9	26.9	7.9	7.9	23.7	23.7	77.5	77.5	5.4	5.2	3.2	4.0	4	5	86	90	822092	817816	<0.2	<0.2	1.7	1.8	
						1.0	0.4	132	26.9	26.9	7.9	7.9	23.7	23.7	77.5	77.5	5.4	5.2	3.2	4.0	4	5	86	90			<0.2	<0.2	2.0		
					Middle	6.2	0.3	85	26.3	26.3	7.9	7.9	25.7	25.7	72.2	72.2	5.0	5.1	4.1	5.1	4.1	5	5	91			90	<0.2	<0.2		1.9
						6.2	0.3	88	26.3	26.3	7.9	7.9	25.7	25.7	72.2	72.2	5.0	5.1	4.1	5.1	4.1	5	5	90			90	<0.2	<0.2		1.8
					Bottom	11.3	0.3	113	26.1	26.1	7.8	7.8	26.1	26.1	72.4	72.5	5.1	5.1	4.7	5.1	4.7	5	5	92			92	<0.2	<0.2		1.6
						11.3	0.3	124	26.1	26.1	7.8	7.8	26.1	26.1	72.5	72.5	5.1	5.1	4.7	5.1	4.7	5	5	92			92	<0.2	<0.2		1.5
25-Aug-16	Fine	Calm	18:23	13.7	Surface	1.0	0.4	78	28.7	28.7	7.9	7.9	23.8	23.8	82.6	82.6	5.6	5.4	2.0	1.9	3	3	85	90	822120	817809	<0.2	<0			

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

Water Quality Monitoring Results at IM1 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	14:13	7.2	Surface	1.0	0.6	186	25.6	25.6	7.8	7.8	27.9	27.9	65.1	65.1	4.6	4.4	6.6	11.3	9	14	96	95	818364	806470	<0.2	<0.2	1.1	0.9		
						1.0	0.6	195	25.6	7.8	7.8	27.8	27.9	65.0	65.1	4.5	4.4	6.5	11.3	10	14	93	95	<0.2			<0.2	1.1				
					Middle	3.6	0.4	182	25.0	25.0	7.8	7.8	29.2	29.2	60.0	60.0	4.2	4.2	10.9	11.3	13	14	95	93			95	95	<0.2		<0.2	0.8
						3.6	0.4	196	25.1	25.0	7.8	7.8	29.2	29.2	60.0	60.0	4.2	4.2	10.9	11.3	12	14	93	95			93	95	<0.2		<0.2	0.8
					Bottom	6.2	0.4	174	24.9	24.9	7.8	7.8	29.7	29.7	60.2	60.4	4.2	4.2	16.5	11.3	20	14	98	97			98	97	<0.2		<0.2	0.8
						6.2	0.4	179	24.8	24.9	7.8	7.8	29.7	29.7	60.6	60.4	4.2	4.2	16.1	11.3	20	14	97	97			97	97	<0.2		<0.2	0.8
6-Aug-16	Sunny	Moderate	14:25	7.5	Surface	1.0	0.6	93	27.4	27.4	7.6	7.6	23.8	23.9	66.1	66.2	4.6	4.3	4.5	6.0	4	6	87	95	818335	806451	<0.2	<0.2	2.6	1.4		
						1.0	0.6	97	27.4	27.4	7.6	7.6	23.9	23.9	66.3	66.2	4.6	4.3	4.7	6.0	4	6	84	95			<0.2	<0.2	2.3			
					Middle	3.8	0.6	122	25.5	25.5	7.7	7.7	28.9	28.9	56.5	56.5	3.9	3.9	5.8	6.0	6	6	95	97			95	95	<0.2		<0.2	1.1
						3.8	0.7	134	25.5	25.5	7.7	7.7	28.9	28.9	56.5	56.5	3.9	3.9	5.8	6.0	6	6	97	97			97	95	<0.2		<0.2	1.0
					Bottom	6.5	0.5	139	25.0	25.1	7.7	7.7	30.2	30.2	56.1	56.4	3.9	3.9	7.8	6.0	8	6	104	102			104	102	<0.2		<0.2	0.7
						6.5	0.5	149	25.1	25.1	7.7	7.7	30.1	30.2	56.6	56.4	3.9	3.9	7.3	6.0	8	6	102	102			102	102	<0.2		<0.2	0.8
9-Aug-16	Cloudy	Moderate	15:57	7.0	Surface	1.0	0.4	186	28.3	28.1	7.8	7.8	20.0	20.0	78.8	79.6	5.5	4.7	2.4	5.4	3	5	76	84	818355	806476	<0.2	<0.2	3.0	1.7		
						1.0	0.4	191	27.9	28.1	7.8	7.8	20.0	20.0	80.3	79.6	5.5	4.7	2.4	5.4	3	5	75	84			<0.2	<0.2	3.2			
					Middle	3.5	0.3	169	25.9	25.9	7.8	7.8	28.7	28.7	56.9	56.8	3.9	3.9	3.0	5.4	5	5	84	85			84	84	<0.2		<0.2	1.4
						3.5	0.3	182	25.8	25.9	7.8	7.8	28.7	28.7	56.6	56.8	3.9	3.9	3.0	5.4	5	5	85	85			85	84	<0.2		<0.2	1.3
					Bottom	6.0	0.3	145	25.0	25.1	7.8	7.8	31.1	31.1	50.8	51.2	3.5	3.6	10.8	5.4	6	5	90	92			90	84	<0.2		<0.2	0.6
						6.0	0.3	145	25.1	25.1	7.8	7.8	31.1	31.1	51.5	51.2	3.6	3.6	10.7	5.4	7	5	92	92			92	84	<0.2		<0.2	0.7
11-Aug-16	Sunny	Moderate	17:59	7.0	Surface	1.0	0.3	181	28.3	28.3	7.8	7.8	18.9	18.9	83.6	83.5	5.9	4.7	1.1	4.3	2	3	88	94	818340	806447	<0.2	<0.2	3.0	1.7		
						1.0	0.3	191	28.3	28.3	7.8	7.8	18.8	18.9	83.4	83.5	5.9	4.7	1.2	4.3	<2	3	92	96			92	94	<0.2		<0.2	3.3
					Middle	3.5	0.3	175	25.1	25.1	7.8	7.8	30.5	30.5	49.1	49.1	3.4	3.4	4.9	4.3	3	3	96	91			96	94	<0.2		<0.2	1.0
						3.5	0.3	188	25.1	25.1	7.8	7.8	30.5	30.5	49.1	49.1	3.4	3.4	4.9	4.3	3	3	91	91			91	94	<0.2		<0.2	0.8
					Bottom	6.0	0.3	170	25.0	25.0	7.8	7.8	30.8	30.8	46.2	46.5	3.2	3.2	6.9	4.3	3	3	100	99			100	94	<0.2		<0.2	1.1
						6.0	0.3	178	25.0	25.0	7.8	7.8	30.8	30.8	46.7	46.5	3.2	3.2	6.8	4.3	3	3	99	99			99	94	<0.2		<0.2	1.1
13-Aug-16	Sunny	Moderate	09:32	6.6	Surface	1.0	0.5	199	25.8	26.1	7.8	7.8	27.8	27.6	51.9	51.7	3.6	3.4	2.5	3.1	3	3	98	94	818354	806476	<0.2	<0.2	1.3	1.4		
						1.0	0.5	213	26.3	26.1	7.8	7.8	27.4	27.6	51.5	51.7	3.6	3.4	2.3	3.1	2	3	93	95			<0.2	<0.2	1.3			
					Middle	3.3	0.5	196	25.2	25.2	7.8	7.8	30.7	30.8	45.6	45.7	3.2	3.2	2.0	3.1	3	3	95	92			95	94	<0.2		<0.2	1.4
						3.3	0.5	197	25.1	25.2	7.8	7.8	30.8	30.8	45.7	45.7	3.2	3.2	2.0	3.1	3	3	92	93			92	94	<0.2		<0.2	1.5
					Bottom	5.6	0.3	206	24.3	24.5	7.8	7.8	32.3	32.2	41.6	41.6	2.9	2.9	4.8	3.1	3	3	93	95			93	94	<0.2		<0.2	1.5
						5.6	0.3	209	24.7	24.5	7.8	7.8	32.1	32.2	41.6	41.6	2.9	2.9	4.8	3.1	3	3	95	95			95	94	<0.2		<0.2	1.4
16-Aug-16	Rainy	Moderate	11:51	7.1	Surface	1.0	0.5	188	25.8	25.8	7.8	7.8	28.3	28.4	52.1	52.1	3.6	3.5	6.8	9.9	9	12	98	97	818349	806439	<0.2	<0.2	0.8	1.1		
						1.0	0.5	206	25.8	25.8	7.8	7.8	28.4	28.4	52.1	52.1	3.6	3.5	6.8	9.9	9	12	96	96			96	97	<0.2		<0.2	0.8
					Middle	3.6	0.5	181	25.4	25.4	7.8	7.8	29.5	29.5	49.5	49.6	3.4	3.4	9.8	9.9	11	12	95	96			95	97	<0.2		<0.2	1.1
						3.6	0.5	188	25.4	25.4	7.8	7.8	29.5	29.5	49.6	49.6	3.4	3.4	9.9	9.9	12	12	96	96			96	97	<0.2		<0.2	1.1
					Bottom	6.1	0.3	177	25.1	25.3	7.8	7.8	30.1	30.0	51.3	51.5	3.6	3.6	13.0	9.9	16	12	100	97			100	97	<0.2		<0.2	1.8
						6.1	0.3	188	25.4	25.3	7.8	7.8	29.8	30.0	51.7	51.5	3.6	3.6	12.9	9.9	17	12	97	97			97	97	<0.2		<0.2	1.0
20-Aug-16	Sunny	Moderate	13:19	7.7	Surface	1.0	0.5	181	26.9	27.2	7.9	7.9	27.5	27.4	78.0	77.7	5.3	5.3	5.9	11.3	6	9	97	95	818344	806459	<0.2	<0.2	1.3	1.3		
						1.0	0.5	182	27.4	27.2	7.9	7.9	27.3	27.4	77.3	77.7	5.3	5.3	5.9	11.3	6	9	94	95			94	95	<0.2		<0.2	1.2
					Middle	3.9	0.5	178	27.0	27.2	7.9	7.9	28.0	27.9	77.3	77.1	5.3	5.3	7.5	11.3	10	9	96	95			96	95	<0.2		<0.2	1.3
						3.9	0.5	178	27.4	27.2	7.9	7.9	27.8	27.9	76.8	77.1	5.2	5.2	7.4	11.3	9	9	95	95			95	95	<0.2		<0.2	1.2
					Bottom	6.7	0.4	186	27.2	27.2	7.9	7.9	28.7	28.7	75.6	75.8	5.1	5.1	20.8	11.3	11	9	94	93			94	95	<0.2		<0.2	1.5
						6.7	0.4	197	27.1	27.2	7.9	7.9	28.7	28.7	75.9	75.8	5.1	5.1	20.3	11.3	12	9	93	93			93	95	<0.2		<0.2	1.4
23-Aug-16	Cloudy	Moderate	15:37	7.9	Surface	1.0	0.3	149	28.8	28.8	7.8	7.8	22.8	22.8	81.0	81.0	5.5	5.3	3.8	7.9	4	11	99	97	818342	806441	<0.2	<0.2	1.8	1.3		
						1.0	0.4	161	28.8	28.8	7.8	7.8	22.8	22.8	81.0	81.0	5.5	5.3	3.8	7.9	5	11	97	95			97	97	<0.2		<0.2	1.6
					Middle	4.0	0.4	145	27.6	27.6	7.9	7.9	27.8	27.8	74.5	74.5	5.0	5.0	7.6	7.9	11	11	95	97			95	97	<0.2		<0.2	1.2
						4.0	0.4	148	27.6	27.6	7.9	7.9	27.8	27.8	74.5	74.5	5.0	5.0	7.7	7.9	10	11	97	97			97	97	<0.2		<0.2	1.0
					Bottom	6.9	0.3	173	27.7	27.5	7.9	7.9	27.9	28.0	73.4	73.8	4.9	5.0	11.8	7.9	16	11	97	97			97	97	<0.2		<0.2	1.0
						6.9	0.3	173	27.3	27.5	7.9	7.9	28.1	28.0	74.1	73.8	5.0	5.0	12.4	7.9	17	11	97	97			97	97	<0.2		<0.2	1.0

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

Water Quality Monitoring

Water Quality Monitoring Results at IM2 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA		
4-Aug-16	Cloudy	Moderate	14:26	8.3	Surface	1.0	0.6	209	26.7	26.7	7.8	7.8	24.4	24.3	76.9	76.8	5.4	4.9	3.3	10.9	6	13	91	92	818857	806210	<0.2	<0.2	1.4	1.1		
						1.0	0.7	218	26.7	7.8	7.8	24.3	24.3	76.6	76.8	5.4	4.9	3.2	10.9	6	13	93	92	<0.2	<0.2	1.3	1.1					
					Middle	4.2	0.6	199	25.3	25.3	7.8	7.8	28.6	28.6	61.9	61.9	4.3	4.3	12.9	10.9	13	13	87	90	87	92	818857	806210	<0.2	<0.2	1.0	1.1
						4.2	0.6	216	25.3	25.3	7.8	7.8	28.6	28.6	61.8	61.9	4.3	4.3	13.1	10.9	12	13	90	92	90	92	818857	806210	<0.2	<0.2	1.0	1.1
					Bottom	7.3	0.5	189	25.0	25.0	7.8	7.8	29.3	29.3	62.1	62.2	4.4	4.4	16.5	10.9	19	13	98	96	98	92	818857	806210	<0.2	<0.2	0.8	1.1
						7.3	0.5	196	25.0	25.0	7.8	7.8	29.3	29.3	62.2	62.2	4.4	4.4	16.5	10.9	20	13	96	96	96	92	818857	806210	<0.2	<0.2	0.9	1.1
6-Aug-16	Sunny	Moderate	14:19	8.5	Surface	1.0	0.6	69	28.6	28.6	7.6	7.6	19.7	19.7	72.4	72.3	5.0	4.5	2.0	7.4	5	11	87	94	818839	806212	<0.2	<0.2	4.2	1.9		
						1.0	0.7	74	28.6	28.6	7.6	7.6	19.7	19.7	72.2	72.3	5.0	4.5	2.1	7.4	3	11	83	94	83	94	818839	806212	<0.2	<0.2	3.3	1.9
					Middle	4.3	0.6	90	25.4	25.4	7.7	7.7	29.1	29.1	55.5	55.5	3.9	3.9	7.8	7.4	9	11	96	96	96	94	818839	806212	<0.2	<0.2	1.0	1.9
						4.3	0.7	97	25.4	25.4	7.7	7.7	29.1	29.1	55.4	55.5	3.9	3.9	7.7	7.4	10	11	96	96	96	94	818839	806212	<0.2	<0.2	1.0	1.9
					Bottom	7.5	0.4	155	25.1	25.1	7.7	7.7	30.0	30.1	54.4	54.7	3.8	3.8	12.3	7.4	19	11	103	100	103	94	818839	806212	<0.2	<0.2	0.8	1.9
						7.5	0.4	168	25.0	25.1	7.7	7.7	30.1	30.1	54.9	54.7	3.8	3.8	12.4	7.4	18	11	100	100	100	94	818839	806212	<0.2	<0.2	0.9	1.9
9-Aug-16	Cloudy	Moderate	15:51	8.2	Surface	1.0	0.5	217	28.8	28.6	7.8	7.8	20.3	20.3	80.6	80.7	5.6	5.4	2.4	5.4	4	7	78	84	818869	806186	<0.2	<0.2	2.5	1.8		
						1.0	0.5	217	28.4	28.6	7.8	7.8	20.3	20.3	80.8	80.7	5.6	5.4	2.6	5.4	4	7	80	84	80	84	818869	806186	<0.2	<0.2	2.6	1.8
					Middle	4.1	0.2	199	25.8	26.1	7.8	7.8	29.3	28.9	74.8	74.9	5.2	5.4	4.4	5.4	5	7	84	82	84	84	818869	806186	<0.2	<0.2	2.2	1.8
						4.1	0.2	207	26.4	26.1	7.8	7.8	28.4	28.9	74.9	74.9	5.1	5.4	4.1	5.4	4	7	82	82	82	84	818869	806186	<0.2	<0.2	2.1	1.8
					Bottom	7.2	0.2	171	25.0	25.0	7.8	7.8	30.8	30.9	59.8	61.3	4.2	4.3	9.5	5.4	13	7	89	91	89	84	818869	806186	<0.2	<0.2	0.7	1.8
						7.2	0.2	180	25.0	25.0	7.8	7.8	30.9	30.9	62.7	61.3	4.3	4.3	9.3	5.4	12	7	91	91	91	84	818869	806186	<0.2	<0.2	0.7	1.8
11-Aug-16	Sunny	Moderate	17:51	7.8	Surface	1.0	0.3	222	28.1	28.2	7.8	7.8	18.7	18.7	86.4	86.3	6.1	4.8	1.3	3.5	<2	4	82	93	818852	806192	<0.2	<0.2	3.7	2.0		
						1.0	0.4	224	28.2	28.2	7.8	7.8	18.7	18.7	86.2	86.3	6.1	4.8	1.2	3.5	<2	4	80	93	80	93	818852	806192	<0.2	<0.2	3.5	2.0
					Middle	3.9	0.2	162	25.0	25.1	7.8	7.8	30.6	30.6	49.0	49.0	3.4	3.0	4.1	3.5	3	4	95	95	95	93	818852	806192	<0.2	<0.2	1.6	2.0
						3.9	0.3	165	25.1	25.1	7.8	7.8	30.5	30.6	49.0	49.0	3.4	3.0	4.0	3.5	3	4	95	95	95	93	818852	806192	<0.2	<0.2	1.8	2.0
					Bottom	6.8	0.3	194	24.9	24.9	7.7	7.7	31.1	31.1	42.6	42.6	3.0	3.0	5.2	3.0	6	4	103	102	103	93	818852	806192	<0.2	<0.2	0.7	2.0
						6.8	0.3	199	24.9	24.9	7.7	7.7	31.1	31.1	42.6	42.6	3.0	3.0	5.2	3.0	6	4	102	102	102	93	818852	806192	<0.2	<0.2	0.7	2.0
13-Aug-16	Sunny	Moderate	09:45	8.3	Surface	1.0	0.7	186	27.5	27.4	7.8	7.8	22.6	23.1	64.9	64.9	4.5	3.7	1.8	3.1	3	3	87	92	818833	806189	<0.2	<0.2	2.7	1.9		
						1.0	0.7	200	27.3	27.4	7.8	7.8	23.5	23.1	64.9	64.9	4.5	3.7	1.9	3.1	2	3	86	92	86	92	818833	806189	<0.2	<0.2	2.9	1.9
					Middle	4.2	0.6	203	25.0	25.0	7.8	7.8	31.3	31.4	39.7	39.7	2.8	2.9	2.9	3.1	4	3	90	91	90	92	818833	806189	<0.2	<0.2	1.5	1.9
						4.2	0.6	220	25.0	25.0	7.8	7.8	31.4	31.4	39.7	39.7	2.8	2.9	3.0	3.1	4	3	91	91	91	92	818833	806189	<0.2	<0.2	1.5	1.9
					Bottom	7.3	0.4	190	24.8	24.8	7.8	7.8	32.0	32.0	41.4	41.6	2.9	2.9	4.4	2.9	3	3	99	100	99	92	818833	806189	<0.2	<0.2	1.4	1.9
						7.3	0.4	194	24.8	24.8	7.8	7.8	32.0	32.0	41.8	41.6	2.9	2.9	4.4	2.9	3	3	99	100	99	92	818833	806189	<0.2	<0.2	1.4	1.9
16-Aug-16	Rainy	Moderate	11:59	8.2	Surface	1.0	0.7	212	27.1	27.2	7.8	7.8	22.6	22.6	77.1	77.0	5.4	4.6	1.9	10.0	5	9	76	86	818869	806196	<0.2	<0.2	1.8	1.6		
						1.0	0.8	229	27.2	27.2	7.8	7.8	22.5	22.6	76.9	77.0	5.4	4.6	2.0	10.0	5	9	79	86	79	86	818869	806196	<0.2	<0.2	1.2	1.6
					Middle	4.1	0.5	195	25.8	25.8	7.8	7.8	28.4	28.4	55.2	55.2	3.8	4.6	9.9	10.0	8	9	91	92	91	86	818869	806196	<0.2	<0.2	1.3	1.6
						4.1	0.5	201	25.7	25.8	7.8	7.8	28.4	28.4	55.2	55.2	3.8	4.6	10.3	10.0	9	9	92	92	92	86	818869	806196	<0.2	<0.2	1.4	1.6
					Bottom	7.2	0.5	176	25.5	25.6	7.8	7.8	29.3	29.3	57.4	58.1	4.0	4.1	17.8	10.0	13	9	90	89	90	86	818869	806196	<0.2	<0.2	1.7	1.6
						7.2	0.5	179	25.6	25.6	7.8	7.8	29.3	29.3	58.8	58.1	4.1	4.1	17.9	10.0	15	9	89	89	89	86	818869	806196	<0.2	<0.2	2.0	1.6
20-Aug-16	Sunny	Moderate	13:13	8.6	Surface	1.0	0.4	186	27.9	28.0	7.8	7.8	24.7	24.6	77.6	77.5	5.3	5.2	4.6	11.5	3	15	85	94	818856	806196	<0.2	<0.2	1.3	1.6		
						1.0	0.4	186	28.1	28.0	7.8	7.8	24.4	24.6	77.4	77.5	5.3	5.2	4.9	11.5	4	15	87	94	87	94	818856	806196	<0.2	<0.2	1.3	1.6
					Middle	4.3	0.5	177	27.1	27.1	7.9	7.9	28.1	28.2	73.9	74.0	5.0	5.1	14.3	11.5	18	15	99	97	99	94	818856	806196	<0.2	<0.2	1.7	1.6
						4.3	0.5	177	27.0	27.1	7.9	7.9	28.2	28.2	74.0	74.0	5.0	5.1	14.4	11.5	18	15	97	97	97	94	818856	806196	<0.2	<0.2	1.9	1.6
					Bottom	7.6	0.3	188	27.1	27.2	7.9	7.9	28.9	28.9	75.3	75.3	5.1	5.1	15.3	11.5	22	15	96	98	96	94	818856	806196	<0.2	<0.2	1.5	1.6
						7.6	0.4	202	27.2	27.2	7.9	7.9	28.8	28.9	75.3	75.3	5.1	5.1	15.3	11.5	22	15	98	98	98	94	818856	806196	<0.2	<0.2	1.6	1.6
23-Aug-16	Cloudy	Moderate	15:26	8.8	Surface	1.0	0.3	158	29.0	29.0	7.8	7.8	22.4	22.5	81.8	81.7	5.6	5.3	3.2	7.7	4	9	88	89	818859	806187	<0.2	<0.2	2.0	1.5		
						1.0	0.3	159	28.9	29.0																						

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

Water Quality Monitoring

Water Quality Monitoring Results at IM3 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	14:39	8.3	Surface	1.0	0.8	218	27.3	27.3	7.8	7.8	22.7	22.7	82.0	81.9	5.7	5.1	1.8	1.8	4	9	82	91	819400	806018	<0.2	<0.2	1.9	1.4
						1.0	0.8	218	27.3	27.3	7.8	7.8	22.6	22.7	81.8	81.9	5.7	5.1	1.8	1.8	3	9	83	91	819400	806018	<0.2	<0.2	1.8	1.4
					Middle	4.2	0.7	200	25.6	25.6	7.8	7.8	27.5	27.5	64.0	64.0	4.5	4.5	19.5	19.9	10	9	93	91	819400	806018	<0.2	<0.2	1.3	1.4
						4.2	0.8	215	25.6	25.6	7.8	7.8	27.5	27.5	63.9	64.0	4.5	4.5	19.8	19.9	10	9	96	91	819400	806018	<0.2	<0.2	1.2	1.4
					Bottom	7.3	0.6	199	25.0	25.0	7.8	7.8	29.1	29.1	62.5	62.8	4.4	4.4	39.0	37.7	13	9	95	91	819400	806018	<0.2	<0.2	1.0	1.4
						7.3	0.7	208	25.0	25.0	7.8	7.8	29.2	29.1	63.1	62.8	4.4	4.4	37.7	37.7	14	9	97	91	819400	806018	<0.2	<0.2	1.2	1.4
6-Aug-16	Sunny	Moderate	14:16	8.6	Surface	1.0	0.5	128	29.3	29.3	7.7	7.7	17.8	17.8	85.0	85.0	5.9	4.9	1.3	4.9	4	10	85	92	819404	806015	<0.2	<0.2	2.8	1.8
						1.0	0.5	128	29.3	29.3	7.7	7.7	17.8	17.8	84.9	85.0	5.9	4.9	1.4	4.9	3	10	81	92	819404	806015	<0.2	<0.2	3.7	1.8
					Middle	4.3	0.6	128	25.7	25.7	7.7	7.7	28.5	28.5	55.9	56.0	3.9	3.9	14.7	9.4	11	10	98	92	819404	806015	<0.2	<0.2	1.3	1.8
						4.3	0.6	136	25.6	25.6	7.7	7.7	28.5	28.5	56.0	56.0	3.9	3.9	14.6	9.4	14	10	96	92	819404	806015	<0.2	<0.2	1.1	1.8
					Bottom	7.6	0.6	212	25.2	25.2	7.7	7.7	29.8	29.8	55.7	55.9	3.9	3.9	12.3	9.4	15	10	96	92	819404	806015	<0.2	<0.2	0.8	1.8
						7.6	0.6	212	25.2	25.2	7.7	7.7	29.8	29.8	56.1	55.9	3.9	3.9	12.3	9.4	15	10	98	92	819404	806015	<0.2	<0.2	0.8	1.8
9-Aug-16	Cloudy	Moderate	15:43	8.0	Surface	1.0	0.4	191	29.4	29.6	8.0	8.0	16.0	16.0	97.2	95.9	6.8	5.3	1.1	5.3	2	7	89	93	819413	806033	<0.2	<0.2	2.7	1.8
						1.0	0.5	199	29.8	29.6	8.0	8.0	15.9	16.0	94.6	95.9	6.6	5.3	1.1	5.3	3	7	87	93	819413	806033	<0.2	<0.2	2.9	1.8
					Middle	4.0	0.2	179	25.9	25.9	7.8	7.8	28.3	28.4	55.5	55.7	3.9	3.9	3.3	5.7	4	7	92	93	819413	806033	<0.2	<0.2	2.3	1.8
						4.0	0.3	193	25.9	25.9	7.8	7.8	28.4	28.4	55.8	55.7	3.9	3.9	3.4	5.7	4	7	95	93	819413	806033	<0.2	<0.2	1.2	1.8
					Bottom	7.0	0.2	180	24.9	25.2	7.8	7.8	30.6	30.5	55.2	55.1	3.8	3.8	12.8	5.7	13	7	97	93	819413	806033	<0.2	<0.2	0.7	1.8
						7.0	0.2	196	25.4	25.2	7.8	7.8	30.3	30.5	54.9	55.1	3.8	3.8	12.7	5.7	14	7	97	93	819413	806033	<0.2	<0.2	0.7	1.8
11-Aug-16	Sunny	Moderate	17:41	8.0	Surface	1.0	0.3	237	28.1	28.1	7.8	7.8	19.1	19.1	84.6	84.5	6.0	5.0	1.1	5.0	3	4	87	93	819410	806019	<0.2	<0.2	3.5	1.9
						1.0	0.3	257	28.0	28.1	7.8	7.8	19.1	19.1	84.4	84.5	5.9	5.0	1.1	5.0	3	4	87	93	819410	806019	<0.2	<0.2	3.2	1.9
					Middle	4.0	0.3	157	25.5	25.5	7.8	7.8	29.1	29.1	57.1	57.2	4.0	4.0	2.1	5.0	3	4	95	93	819410	806019	<0.2	<0.2	1.5	1.9
						4.0	0.3	160	25.5	25.5	7.8	7.8	29.0	29.1	57.2	57.2	4.0	4.0	2.2	5.0	2	4	93	93	819410	806019	<0.2	<0.2	1.5	1.9
					Bottom	7.0	0.3	154	24.9	24.9	7.8	7.8	31.0	31.0	50.0	50.1	3.5	3.5	4.0	5.0	6	4	100	93	819410	806019	<0.2	<0.2	0.5	1.9
						7.0	0.3	158	24.9	24.9	7.8	7.8	31.0	31.0	50.1	50.1	3.5	3.5	4.0	5.0	7	4	98	93	819410	806019	<0.2	<0.2	0.9	1.9
13-Aug-16	Sunny	Moderate	09:58	8.1	Surface	1.0	0.7	196	28.5	28.3	7.8	7.8	17.5	17.9	80.7	80.7	5.7	4.3	1.7	4.3	2	3	81	88	819396	806000	<0.2	<0.2	3.3	2.9
						1.0	0.7	201	28.1	28.3	7.8	7.8	18.2	17.9	80.6	80.7	5.7	4.3	1.8	4.3	3	3	77	88	819396	806000	<0.2	<0.2	3.7	2.9
					Middle	4.1	0.6	197	26.0	25.9	7.7	7.7	28.9	29.0	40.6	40.7	2.8	2.8	2.8	4.3	2	3	84	88	819396	806000	<0.2	<0.2	2.8	2.9
						4.1	0.6	204	25.8	25.9	7.7	7.7	29.0	29.0	40.7	40.7	2.8	2.8	2.9	4.3	2	3	84	88	819396	806000	<0.2	<0.2	3.0	2.9
					Bottom	7.1	0.4	223	24.4	24.6	7.8	7.8	32.3	32.2	39.9	39.9	2.8	2.8	3.7	4.3	3	3	100	88	819396	806000	<0.2	<0.2	2.4	2.9
						7.1	0.4	236	24.8	24.6	7.8	7.8	32.0	32.2	39.8	39.9	2.8	2.8	3.7	4.3	4	3	102	88	819396	806000	<0.2	<0.2	2.4	2.9
16-Aug-16	Rainy	Moderate	12:09	8.2	Surface	1.0	0.7	210	27.1	27.1	7.8	7.8	23.0	23.0	71.6	71.6	5.0	4.4	2.0	4.4	4	7	82	88	819396	806011	<0.2	<0.2	1.7	1.3
						1.0	0.7	219	27.1	27.1	7.8	7.8	23.0	23.0	71.5	71.6	5.0	4.4	2.0	4.4	3	7	79	88	819396	806011	<0.2	<0.2	1.8	1.3
					Middle	4.1	0.7	208	26.1	26.1	7.8	7.8	27.1	27.1	55.0	55.0	3.8	3.8	5.7	4.4	6	7	92	88	819396	806011	<0.2	<0.2	1.3	1.3
						4.1	0.7	219	26.1	26.1	7.8	7.8	27.1	27.1	54.9	55.0	3.8	3.8	5.8	4.4	6	7	90	88	819396	806011	<0.2	<0.2	1.2	1.3
					Bottom	7.2	0.6	193	25.4	25.3	7.8	7.8	29.3	29.4	49.7	49.9	3.4	3.5	12.8	4.4	10	7	94	88	819396	806011	<0.2	<0.2	0.7	1.3
						7.2	0.6	196	25.2	25.3	7.8	7.8	29.4	29.4	50.0	49.9	3.5	3.5	13.1	4.4	11	7	93	88	819396	806011	<0.2	<0.2	0.8	1.3
20-Aug-16	Sunny	Moderate	13:05	8.7	Surface	1.0	0.5	201	27.8	27.6	7.8	7.8	24.9	25.0	79.1	79.4	5.4	5.2	4.6	5.2	4	20	90	95	819413	806032	<0.2	<0.2	2.2	1.8
						1.0	0.5	220	27.3	27.6	7.8	7.8	25.1	25.0	79.6	79.4	5.5	5.2	4.8	5.2	4	20	87	95	819413	806032	<0.2	<0.2	1.9	1.8
					Middle	4.4	0.6	176	27.1	27.1	7.9	7.9	28.3	28.3	73.6	73.6	5.0	5.0	21.3	5.2	27	20	99	95	819413	806032	<0.2	<0.2	1.6	1.8
						4.4	0.6	190	27.1	27.1	7.9	7.9	28.3	28.3	73.6	73.6	5.0	5.0	21.3	5.2	28	20	97	95	819413	806032	<0.2	<0.2	1.7	1.8
					Bottom	7.7	0.5	176	27.2	27.0	7.9	7.9	28.5	28.7	74.9	75.3	5.1	5.2	26.1	5.2	26	20	98	95	819413	806032	<0.2	<0.2	1.8	1.8
						7.7	0.5	185	26.7	27.0	7.9	7.9	28.8	28.7	75.7	75.3	5.2	5.2	25.9	5.2	28	20	97	95	819413	806032	<0.2	<0.2	1.8	1.8
23-Aug-16	Cloudy	Moderate	15:16	9.1	Surface	1.0	0.3	215	28.9	28.9	7.8	7.8	22.1	22.1	82.0	82.0	5.6	5.3	3.5	5.3	5	11	81	89	819412	806020	<0.2	<0.2	1.9	1.4
						1.0	0.4	230	28.9	28.9	7.8	7.8	22.0	22.1	82.0	82.0	5.6	5.3	3.7	5.3	6	11	80	89	819412	806020	<0.2	<0.2	1.8	1.4
					Middle	4.6	0.3	134	27.7	27.7	7.9	7.9	27.3	27.3	73.9	73.9	5.0	5.0	9.9	5.3	6	11	92	89	819412	806020	<0.2	<0.2	1.4	1.4
						4.6	0.3	144	27.6	27.7	7.9	7.9	27.3	27.3																

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

Water Quality Monitoring

Water Quality Monitoring Results at IM4 during Mid-Ebb Tide

Date	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 (mg/L)		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
4-Aug-16	Cloudy	Moderate	14:54	7.9	Surface	1.0	0.8	210	27.0	27.0	7.8	7.8	23.5	23.5	80.2	80.2	5.6	5.4	2.9	15.8	5	6	86	88	819581	805022	<0.2	<0.2	1.7	1.7		
						1.0	0.8	225	27.0	27.0	7.8	7.8	23.5	23.5	80.1	80.2	5.6	5.4	2.9	15.8	6	6	84	88	819581	805022	<0.2	<0.2	1.8	1.8		
						4.0	0.8	209	26.7	26.7	7.8	7.8	24.6	24.6	75.1	75.1	5.3	4.9	4.6	15.8	7	6	91	88	819581	805022	<0.2	<0.2	1.6	1.6		
						4.0	0.9	218	26.7	26.7	7.8	7.8	24.7	24.6	75.0	75.1	5.2	4.9	5.0	15.8	8	6	87	88	819581	805022	<0.2	<0.2	1.5	1.5		
						6.9	0.6	196	25.1	25.1	7.8	7.8	29.2	29.2	64.2	64.5	4.5	4.5	40.1	15.8	6	6	90	88	819581	805022	<0.2	<0.2	1.7	1.7		
						6.9	0.6	208	25.1	25.1	7.8	7.8	29.2	29.2	64.8	64.5	4.5	4.5	39.0	15.8	6	6	89	88	819581	805022	<0.2	<0.2	1.7	1.7		
6-Aug-16	Sunny	Moderate	14:01	8.3	Surface	1.0	0.4	90	28.7	28.7	7.7	7.7	18.5	18.5	84.2	84.2	5.9	4.9	1.3	12.7	4	17	90	99	819550	805030	<0.2	<0.2	2.6	1.4		
						1.0	0.4	98	28.7	28.7	7.7	7.7	18.5	18.5	84.2	84.2	5.9	4.9	1.4	12.7	5	17	87	99	819550	805030	<0.2	<0.2	2.6	1.4		
						4.2	0.6	69	25.4	25.4	7.7	7.7	29.0	29.0	55.0	55.0	3.8	4.9	15.4	12.7	20	17	107	99	819550	805030	<0.2	<0.2	0.8	0.8		
						4.2	0.6	74	25.4	25.4	7.7	7.7	29.0	29.0	55.0	55.0	3.8	4.9	15.5	12.7	21	17	109	99	819550	805030	<0.2	<0.2	1.0	1.0		
						7.3	0.5	55	25.2	25.2	7.7	7.7	29.7	29.7	55.9	56.4	3.9	4.0	21.5	12.7	26	17	98	99	819550	805030	<0.2	<0.2	0.9	0.9		
						7.3	0.6	58	25.2	25.2	7.7	7.7	29.6	29.7	56.8	56.4	4.0	4.0	21.3	12.7	26	17	102	99	819550	805030	<0.2	<0.2	0.7	0.7		
9-Aug-16	Cloudy	Moderate	15:34	6.2	Surface	1.0	0.5	184	29.9	29.7	8.0	8.0	15.3	15.4	100.8	100.8	7.0	6.4	1.3	7.5	3	9	79	87	819566	805038	<0.2	<0.2	3.2	1.8		
						1.0	0.6	185	29.5	29.5	8.0	8.0	15.4	15.4	100.8	100.8	7.1	6.4	1.4	7.5	3	9	81	87	819566	805038	<0.2	<0.2	3.0	1.8		
						3.1	0.3	185	26.9	27.5	7.8	7.8	24.7	23.8	80.7	81.6	5.6	4.8	2.6	7.5	9	9	87	87	819566	805038	<0.2	<0.2	1.5	1.5		
						3.1	0.3	200	28.1	27.5	7.8	7.8	22.8	23.8	82.4	81.6	5.7	4.8	2.5	7.5	8	9	90	87	819566	805038	<0.2	<0.2	1.5	1.5		
						5.2	0.2	199	24.8	24.8	7.8	7.8	30.8	30.8	55.0	55.9	3.8	3.9	18.6	7.5	14	9	92	87	819566	805038	<0.2	<0.2	0.8	0.8		
						5.2	0.2	203	24.8	24.8	7.8	7.8	30.8	30.8	56.8	55.9	4.0	3.9	18.7	7.5	15	9	92	87	819566	805038	<0.2	<0.2	0.7	0.7		
11-Aug-16	Sunny	Moderate	17:32	7.7	Surface	1.0	0.3	159	28.1	28.1	7.8	7.8	19.3	19.3	86.1	85.9	6.0	4.8	1.4	4.2	2	4	84	95	819589	805054	<0.2	<0.2	3.0	1.8		
						1.0	0.3	170	28.1	28.1	7.8	7.8	19.3	19.3	85.7	85.9	6.0	4.8	1.4	4.2	3	4	83	95	819589	805054	<0.2	<0.2	3.3	1.8		
						3.9	0.3	145	25.1	25.1	7.8	7.8	30.3	30.4	50.1	50.1	3.5	3.2	4.9	4.2	3	4	99	95	819589	805054	<0.2	<0.2	1.4	1.4		
						3.9	0.3	146	25.1	25.1	7.8	7.8	30.4	30.4	50.1	50.1	3.5	3.2	5.0	4.2	4	4	98	95	819589	805054	<0.2	<0.2	1.6	1.6		
						6.7	0.3	163	24.7	24.7	7.8	7.8	31.7	31.7	45.7	46.1	3.2	3.2	6.5	4.2	7	4	103	95	819589	805054	<0.2	<0.2	0.6	0.6		
						6.7	0.3	167	24.7	24.7	7.8	7.8	31.7	31.7	46.5	46.1	3.2	3.2	6.2	4.2	7	4	102	95	819589	805054	<0.2	<0.2	0.7	0.7		
13-Aug-16	Fine	Moderate	10:13	7.6	Surface	1.0	0.5	176	28.7	28.7	7.8	7.8	15.2	15.2	77.1	77.0	5.5	4.6	1.7	2.8	2	4	78	88	819569	805025	<0.2	<0.2	4.2	3.0		
						1.0	0.5	183	28.7	28.7	7.8	7.8	15.2	15.2	76.8	77.0	5.5	4.6	1.8	2.8	<2	4	76	88	819569	805025	<0.2	<0.2	4.5	3.0		
						3.8	0.6	180	27.0	26.8	7.7	7.7	25.9	26.1	54.3	54.4	3.7	3.2	1.3	2.8	2	4	87	88	819569	805025	<0.2	<0.2	2.7	2.7		
						3.8	0.6	195	26.6	26.8	7.7	7.7	26.2	26.1	54.4	54.4	3.8	3.2	1.4	2.8	<2	4	90	88	819569	805025	<0.2	<0.2	2.9	2.9		
						6.6	0.4	210	24.9	24.9	7.7	7.7	31.5	31.5	38.4	38.5	2.7	2.7	5.2	2.8	7	4	97	88	819569	805025	<0.2	<0.2	1.5	1.5		
						6.6	0.4	214	24.9	24.9	7.7	7.7	31.5	31.5	38.5	38.5	2.7	2.7	5.2	2.8	7	4	97	88	819569	805025	<0.2	<0.2	1.9	1.9		
16-Aug-16	Cloudy	Moderate	12:17	7.6	Surface	1.0	0.7	206	27.3	27.3	7.8	7.8	22.0	22.0	73.8	73.8	5.2	4.7	1.8	11.4	3	11	89	92	819573	805020	<0.2	<0.2	1.7	1.1		
						1.0	0.8	208	27.3	27.3	7.8	7.8	22.0	22.0	73.7	73.8	5.2	4.7	1.9	11.4	3	11	89	92	819573	805020	<0.2	<0.2	1.7	1.1		
						3.8	0.6	198	26.2	26.2	7.8	7.8	26.7	26.8	59.3	59.3	4.1	4.7	6.0	11.4	6	11	93	92	819573	805020	<0.2	<0.2	0.9	0.9		
						3.8	0.7	201	26.1	26.2	7.8	7.8	26.8	26.8	59.2	59.3	4.1	4.7	6.4	11.4	6	11	95	92	819573	805020	<0.2	<0.2	0.8	0.8		
						6.6	0.5	197	25.3	25.5	7.8	7.8	29.3	29.2	54.5	54.5	3.8	3.8	26.1	11.4	24	11	93	92	819573	805020	<0.2	<0.2	0.6	0.6		
						6.6	0.5	202	25.6	25.5	7.8	7.8	29.1	29.2	54.4	54.5	3.8	3.8	26.2	11.4	24	11	94	92	819573	805020	<0.2	<0.2	0.8	0.8		
20-Aug-16	Sunny	Moderate	12:55	8.6	Surface	1.0	0.4	206	28.4	28.7	7.8	7.8	25.0	24.9	82.7	82.4	5.6	5.4	3.4	28.5	4	24	89	98	819580	805025	<0.2	<0.2	2.0	1.9		
						1.0	0.4	216	28.9	28.7	7.8	7.8	24.7	24.9	82.0	82.4	5.5	5.4	3.2	28.5	4	24	90	98	819580	805025	<0.2	<0.2	2.2	1.9		
						4.3	0.5	184	27.6	27.6	7.9	7.9	28.2	28.3	78.6	78.7	5.3	5.4	9.2	28.5	9	24	101	98	819580	805025	<0.2	<0.2	2.3	2.3		
						4.3	0.5	193	27.5	27.6	7.9	7.9	28.3	28.3	78.8	78.7	5.3	5.4	9.2	28.5	8	24	102	98	819580	805025	<0.2	<0.2	2.1	2.1		
						7.6	0.5	163	26.6	26.8	7.9	7.9	29.3	29.3	76.8	76.7	5.2	5.2	73.4	28.5	62	24	101	98	819580	805025	<0.2	<0.2	1.3	1.3		
						7.6	0.5	177	26.9	26.8	7.9	7.9	29.2	29.3	76.6	76.7	5.2	5.2	72.3	28.5	58	24	102	98	819580	805025	<0.2	<0.2	1.2	1.2		
23-Aug-16	Cloudy	Moderate	15:08	8.6	Surface	1.0	0.3	154	29.7	29.7	7.8	7.8	20.1	20.1	84.4	84.3	5.7	5.3	3.4	11.6	3	14	86	92	819589	805033	<0.2	<0.2	4.0	2.8		
						1.0	0.4	166	29.7	29.7	7.8	7.8	20.1	20.1	84.1	84.3	5.7	5.3	3.6	11.6	3	14	83	92	819589	805033	<0.2	<0.2	3.6	2.8		
						4.3	0.4	155	27.7	27.7	7.8	7.8	27.0	27.0	72.1	72.1	4.9	4.9	14.2	11.6	20	14	96	92	819589	805033	<0.2	<0.2	2.5	2.5		
						4.3	0.4	159	27.7	27.7	7.8	7.8	27.0	27.0	72.1	72.1	4.9	4.9	14.2	11.6	20	14	95	92	819589	805033	<0.2	<0.2	2.5	2.5		
						7.6	0.3	154	27.4	27.4	7.9	7.9	29.0	29.0	73.3	73.3	4.9	4.9	17.0	11.6	20	14	97	92	819589	805033	<0.2	<0.2	2.3	2.3		
						7.6	0.3	167	27.3	27.4	7.9	7.9	29.0	29.0	73.3	73.3	4.9	4.9	17.2	11.6	19	14	96	92	819589	805033	<0.2	<0.2	1.6	1.6		
25-Aug-16	Sunny	Moderate	17:05	8.2	Surface	1.0	0.3	187	30.1	30.1	7.8	7.8	17.1	17.1	90.7	90.7	6.2	5.3	1.6	6.7	<2	6	84	91	819589	805026	<0.2	<0.2	3.4	2.2		
						1.0	0.4	204	30.1	30.1	7.8	7.8	17.0	17.1	90.6	90.7																

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at IM5 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA		
4-Aug-16	Cloudy	Moderate	15:08	6.6	Surface	1.0	0.9	195	27.3	27.3	7.8	7.8	22.5	22.4	79.4	79.3	5.6	5.1	4.3	15.3	5	12	92	91	820568	804919	<0.2	<0.2	2.0	1.7			
						1.0	1.0	212	27.3		7.8		22.4		79.1		5.5		4.3		6		87				<0.2		2.1				
						3.3	0.7	203	25.5		7.8		27.8		66.5		4.7		15.6		6		87				<0.2		1.9				
					3.3	0.8	212	25.6	7.8	27.7	66.6	4.7	15.1	5	87	<0.2	2.4																
					Bottom	5.6	0.6	213	25.4	25.4	7.8	7.8	28.3	28.3	66.5	66.7	4.7	4.7	25.9	4.7	24	26	96	96			<0.2		<0.2		1.0	0.9	
						5.6	0.6	226	25.4		7.8		28.3		66.8		4.7		26.4		6		96				<0.2				0.9		
1.0	0.5	250	28.7	7.7		18.0	82.2	5.8	1.8		4		90		<0.2		2.6																
6-Aug-16	Sunny	Moderate	13:54	7.2	Surface	1.0	0.5	270	28.8	28.8	7.7	7.7	17.9	18.0	82.2	82.2	5.8	4.9	1.7	13.6	3	14	92	98	820561	804929	<0.2	<0.2	2.2	1.4			
						3.6	0.5	244	25.7		7.7		28.2		56.4		3.9		11.8		9		100				<0.2		0.8				
						3.6	0.5	264	25.7		7.7		28.3		56.4		3.9		11.8		9		102				<0.2		0.9				
					Bottom	6.2	0.4	246	25.5	25.5	7.7	7.7	28.9	29.0	57.3	57.6	4.0	4.0	27.1	4.0	30	28	102	103			<0.2		<0.2		0.8	0.8	
						6.2	0.4	264	25.4		7.7		29.0		57.8		4.0		27.6		6		103				<0.2				0.8		
						1.0	0.5	191	29.4		7.8		18.1		87.8		6.1		1.3		2		81				<0.2				3.0		
9-Aug-16	Cloudy	Moderate	15:25	6.6	Surface	1.0	0.5	204	29.5	29.5	7.8	7.8	18.0	18.1	87.4	87.6	6.0	5.5	1.4	6.9	3	7	82	87	820581	804931	<0.2	<0.2	3.1	1.8			
						3.3	0.4	179	25.5		7.7		29.1		68.0		4.7		4.3		5		87				<0.2		1.3				
						3.3	0.4	179	25.8		7.8		28.9		72.3		5.0		4.0		6		90				<0.2		1.2				
					Bottom	5.6	0.3	179	25.6	25.7	7.7	7.7	29.4	29.4	64.9	67.3	4.5	4.7	15.7	4.7	12	12	92				92		<0.2		<0.2	1.0	0.9
						5.6	0.3	185	25.7		7.7		29.4		69.7		4.8		14.4		6		92						<0.2			0.9	
						1.0	0.3	159	27.0		7.8		24.7		73.9		5.1		1.4		3		96						<0.2			1.8	
11-Aug-16	Sunny	Moderate	17:23	6.4	Surface	1.0	0.3	162	27.0	27.0	7.8	7.8	24.7	24.7	74.0	74.0	5.1	4.4	1.5	2.8	2	4	94	93	820546	804910	<0.2	<0.2	1.6	1.5			
						3.2	0.3	136	25.8		7.8		28.7		53.8		3.7		3.8		4		91				<0.2		1.1				
						3.2	0.3	136	25.7		7.8		28.8		53.7		3.7		3.8		4		92				<0.2		1.2				
					Bottom	5.4	0.2	195	25.1	25.3	7.8	7.8	30.2	30.0	54.8	54.7	3.8	3.8	3.2	3.8	4	6	96				91		<0.2		<0.2	1.2	2.0
						5.4	0.3	200	25.5		7.8		29.8		54.6		3.8		3.0		6		91						<0.2			2.0	
						1.0	0.3	141	29.1		7.9		14.4		91.8		6.5		1.9		<2		71						<0.2			2.9	
13-Aug-16	Sunny	Moderate	10:27	6.6	Surface	1.0	0.3	151	29.0	29.1	7.9	7.9	14.5	14.5	91.5	91.7	6.5	5.8	1.8	2.0	<2	2	69	80	820545	804916	<0.2	<0.2	3.1	3.5			
						3.3	0.3	156	27.8		7.8		21.8		71.7		5.0		1.0		<2		80				<0.2		3.5				
						3.3	0.4	168	27.8		7.8		21.8		71.8		5.0		1.1		2		79				<0.2		3.7				
					Bottom	5.6	0.3	216	25.3	25.5	7.7	7.7	29.4	29.3	43.4	43.5	3.0	3.0	3.0	3.0	<2	2	90				89		<0.2		<0.2	4.0	4.0
						5.6	0.3	225	25.7		7.7		29.1		43.5		3.0		2.9		<2		89						<0.2			4.0	
						1.0	0.9	198	27.7		7.8		18.8		76.8		5.4		2.3		4		86						<0.2			2.4	
16-Aug-16	Cloudy	Moderate	12:28	6.5	Surface	1.0	0.9	199	27.7	27.7	7.8	7.8	18.8	18.8	76.3	76.6	5.4	4.5	2.2	7.9	3	5	85	89	820573	804924	<0.2	<0.2	2.5	2.6			
						3.3	0.6	205	25.6		7.8		28.0		50.2		3.5		8.5		4		95				<0.2		2.2				
						3.3	0.6	210	26.0		7.8		27.7		50.0		3.5		8.4		4		93				<0.2		3.2				
					Bottom	5.5	0.4	217	25.6	25.5	7.8	7.8	29.0	29.1	54.9	55.4	3.8	3.9	13.0	3.9	8	9	87				90		<0.2		<0.2	2.9	2.3
						5.5	0.4	228	25.3		7.8		29.2		55.9		3.9		12.7		9		90						<0.2			2.3	
						1.0	0.4	182	27.4		7.8		26.5		77.7		5.3		9.1		7		87						<0.2			1.7	
20-Aug-16	Sunny	Moderate	12:47	7.4	Surface	1.0	0.4	187	27.4	27.4	7.8	7.8	26.5	26.5	77.7	77.9	5.3	5.4	9.1	17.0	7	15	87	92	820563	804940	<0.2	<0.2	1.7	1.6			
						1.0	0.4	187	27.4		7.8		26.5		78.1		5.3		9.1		7		90				<0.2		1.8				
						3.7	0.4	124	27.4		7.9		28.7		81.4		5.5		6.1		7		91				<0.2		1.3				
					Middle	3.7	0.4	124	27.5	27.5	7.9	7.9	28.6	28.7	81.5	81.5	5.5	5.5	6.6	5.5	6.6	7	91				91		<0.2		<0.2	1.4	1.4
						6.4	0.4	144	26.9		7.9		29.4		78.8		5.3		35.0		30		97						<0.2			1.7	
						6.4	0.4	151	26.9		7.9		29.4		79.1		5.3		36.2		32		96						<0.2			1.4	
23-Aug-16	Cloudy	Moderate	14:57	7.3	Surface	1.0	0.3	151	29.8	29.8	7.8	7.8	19.8	19.8	84.0	83.9	5.7	5.3	3.7	13.9	4	20	83	96	820563	804926	<0.2	<0.2	2.4	1.3			
						1.0	0.3	160	29.7		7.8		19.8		83.8		5.7		3.9		6		83				<0.2		1.6				
						3.7	0.3	151	27.7		7.8		26.3		72.5		4.9		16.7		25		98				<0.2		0.9				
					Middle	3.7	0.3	164	27.7	27.7	7.8	7.8	26.3	26.3	72.5	72.5	4.9	4.9	16.8	4.9	27	27	94				109		<0.2		<0.2	0.8	1.2
						6.3	0.3	167	27.7		7.8		27.1		72.4		4.9		20.9		27		109						<0.2			1.2	
						6.3	0.3	178	27.7		7.8		27.1		72.7		4.9		21.1		29		109						<0.2			0.7	
25-Aug-16	Sunny	Moderate	16:57	7.4	Surface	1.0	0.3	191	30.9	30.9	7.8	7.8	16.3	16.3	93.1	93.1	6.3	5.5	1.6	5.2	<2	9	82	92	820550	804915	<0.2	<0.2	3.1	2.0			
						1.0	0.3	198	30.9		7.8		16.3		93.1		6.3		<2		83		<0.2				3.4						
						3.7	0.3	136	27.9		7.8		24.6		68.3		4.7		3.0		9		97				<0.2		1.5				
					Middle	3.7	0.3	145	27.9	27.9	7.8	7.8	24.7	24.7	68.3	68.3	4.7	4.7	3.1	4.3	8	16	96				98		<0.2		<0.2	1.5	1.4
						6.4	0.3	159	27.3		7.8		28.0		63.4		4.3		11.0		16		98						<0.2			1.4	
						6.4	0.3	160	27.3		7.8		28.0		64.1		4.3		11.0		14		96						<0.2			1.3	
27-Aug-16	Fine	Moderate	09:17	6.7	Surface	1.0	0.6	190	29.3	29.3	7.8	7.8	17.5	17.6	79.0	78.9	5.5	5.1	1.0	6.8	<2	11	84	89	820567	804926	<0.2	<0.2	2.4	1.9			
						1.0	0.6	202	29.2		7.8		17.6		78.7		5.5		1.0		<2		83				<0.2		2.5				
						3.4	0.5	199	28.0		7.8		24.0		66.8		4.6		3.1		2		84				<0.2		2.3				
					Middle	3.4	0.6	199	28.0	28.0	7.8	7.8	24.0	24.0	66.5	66.7	4.6	4.6	3.2	4.1	<2	29	85				98		<0.2		<0.2	2.1	0.9
						5.7	0.4	193	26.9		7.9		29.5		60.0		4.1		16.2		29		98						<0.2			0.9	
						5.7	0.4	194	26.9		7.9		29.5		60.2		4.1		16.0		30		97						<0.2			0.9	
30-Aug-16	Cloudy	Moderate	12:32	6.8	Surface	1.0	0.8	193	27.9	27.9	7.9	7.9	27.3	27.3	92.0	92.0	6.2	5.5	1.6	12.3	5	20	101	99	820555	804928	<0.2	<0.2	1.4	1.3			
						1.0	0.9	207	27.9		7.9		27.3		91.9		6.2		1.7		5		99				<0.2		1.5				
						3.4	0.6	1																									

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

Water Quality Monitoring

Water Quality Monitoring Results at IM6 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
4-Aug-16	Cloudy	Moderate	15:23	6.3	Surface	1.0	0.8	215	26.9	26.9	7.7	7.7	23.4	23.4	77.2	77.2	5.4	5.4	5.0	5.0	6	6	87	87	85	85	821053	805822	<0.2	<0.2	1.8	1.8
						1.0	0.8	230	26.9	26.9	7.7	7.7	23.4	23.4	77.1	77.2	5.4	5.4	4.9	4.9	7	7	85	85	81	81			<0.2	<0.2	1.8	1.8
					Middle	3.2	0.8	210	26.8	26.8	7.7	7.7	23.6	23.6	76.5	76.5	5.4	5.4	5.5	5.5	8	8	85	85	85	85			<0.2	<0.2	1.8	1.8
						3.2	0.8	212	26.8	26.8	7.7	7.7	23.6	23.6	76.5	76.5	5.4	5.4	5.6	5.6	8	8	85	85	87	87			<0.2	<0.2	1.8	1.8
					Bottom	5.3	0.8	204	26.5	26.5	7.8	7.8	24.5	24.5	74.8	74.9	5.2	5.3	10.5	10.5	10	10	85	85	87	87			<0.2	<0.2	1.6	1.6
						5.3	0.9	205	26.5	26.5	7.8	7.8	24.4	24.4	75.0	75.0	5.3	5.3	11.0	11.0	10	10	87	87	87	87			<0.2	<0.2	1.6	1.6
6-Aug-16	Sunny	Moderate	13:45	7.2	Surface	1.0	0.4	294	28.7	28.8	7.7	7.7	18.3	18.3	82.6	82.7	5.8	5.4	2.1	2.1	2	2	89	89	87	87	821045	805844	<0.2	<0.2	2.7	2.7
						1.0	0.4	318	28.8	28.8	7.7	7.7	18.2	18.3	82.7	82.7	5.8	5.4	2.0	2.0	2	2	87	87	90	90			<0.2	<0.2	2.6	2.6
					Middle	3.6	0.4	298	26.6	26.8	7.7	7.7	25.5	25.0	70.5	70.9	4.9	4.9	3.8	3.8	2	2	87	87	92	92			<0.2	<0.2	1.7	1.8
						3.6	0.4	301	26.9	26.9	7.7	7.7	24.5	25.0	71.2	70.9	5.0	5.0	3.9	3.9	3	3	87	87	99	99			<0.2	<0.2	1.8	1.8
					Bottom	6.2	0.4	298	25.9	25.9	7.7	7.7	28.0	28.0	59.0	59.3	4.1	4.1	26.2	26.2	19	19	99	99	100	100			<0.2	<0.2	0.8	0.8
						6.2	0.4	309	25.9	25.9	7.7	7.7	28.0	28.0	59.5	59.3	4.1	4.1	25.2	25.2	19	19	100	100	100	100			<0.2	<0.2	1.0	1.0
9-Aug-16	Cloudy	Moderate	15:15	6.5	Surface	1.0	0.2	170	29.6	29.5	7.9	7.9	17.0	17.1	91.7	91.8	6.4	6.2	0.8	0.8	4	4	82	82	85	85	821069	805827	<0.2	<0.2	2.9	2.9
						1.0	0.2	177	29.4	29.5	7.9	7.9	17.1	17.1	91.8	91.8	6.4	6.2	0.9	0.9	3	3	80	80	85	85			<0.2	<0.2	3.1	3.1
					Middle	3.3	0.4	172	28.9	28.9	7.8	7.8	19.2	19.1	85.3	85.3	5.9	5.9	0.7	0.7	4	4	85	85	87	87			<0.2	<0.2	2.9	2.9
						3.3	0.4	175	28.9	28.9	7.8	7.8	19.0	19.1	85.2	85.3	5.9	5.9	0.7	0.7	2	2	87	87	92	92			<0.2	<0.2	2.6	2.6
					Bottom	5.5	0.2	144	25.7	25.7	7.7	7.7	29.4	29.4	54.2	55.1	3.8	3.9	13.9	13.9	16	16	92	92	91	91			<0.2	<0.2	1.0	1.0
						5.5	0.3	144	25.7	25.7	7.7	7.7	29.3	29.4	56.0	55.1	3.9	3.9	13.9	13.9	16	16	91	91	91	91			<0.2	<0.2	1.1	1.1
11-Aug-16	Sunny	Moderate	17:13	6.3	Surface	1.0	0.4	271	28.5	28.4	7.8	7.8	19.0	19.1	81.9	82.0	5.7	5.1	1.1	1.1	3	3	84	84	85	85	821054	805828	<0.2	<0.2	3.5	3.5
						1.0	0.4	275	28.3	28.4	7.8	7.8	19.1	19.1	82.1	82.0	5.8	5.1	1.2	1.2	3	3	85	85	87	87			<0.2	<0.2	3.4	3.4
					Middle	3.2	0.4	213	26.4	26.7	7.8	7.8	26.0	25.7	64.9	64.6	4.5	4.5	1.9	1.9	2	2	87	87	85	85			<0.2	<0.2	2.1	2.8
						3.2	0.4	213	26.9	26.7	7.8	7.8	25.4	25.7	64.3	64.6	4.5	4.5	1.9	1.9	2	2	85	85	100	100			<0.2	<0.2	2.8	2.8
					Bottom	5.3	0.3	157	25.9	25.9	7.8	7.8	29.0	29.0	55.3	55.7	3.8	3.9	2.2	2.2	2	2	100	100	97	97			<0.2	<0.2	4.4	4.4
						5.3	0.3	157	25.9	25.9	7.8	7.8	28.9	29.0	56.0	55.7	3.9	3.9	2.0	2.0	2	2	97	97	97	97			<0.2	<0.2	3.6	3.6
13-Aug-16	Fine	Moderate	10:42	6.2	Surface	1.0	0.4	193	29.0	29.0	7.8	7.8	15.1	15.1	89.9	89.8	6.4	5.9	1.7	1.7	<2	<2	71	71	73	73	821072	805839	<0.2	<0.2	3.7	3.7
						1.0	0.4	198	29.0	29.0	7.8	7.8	15.1	15.1	89.7	89.8	6.4	5.9	1.6	1.6	<2	<2	73	73	77	77			<0.2	<0.2	3.4	3.4
					Middle	3.1	0.4	188	28.2	28.2	7.7	7.7	19.0	19.0	74.8	75.2	5.3	5.3	1.5	1.5	2	2	77	77	75	75			<0.2	<0.2	3.5	3.5
						3.1	0.5	198	28.2	28.2	7.7	7.7	19.0	19.0	75.5	75.2	5.3	5.3	1.5	1.5	2	2	75	75	95	95			<0.2	<0.2	3.8	3.8
					Bottom	5.2	0.3	211	25.4	25.3	7.7	7.7	30.1	30.2	41.1	41.4	2.8	2.9	3.3	3.3	2	2	95	95	97	97			<0.2	<0.2	2.3	2.3
						5.2	0.3	214	25.1	25.3	7.7	7.7	30.3	30.2	41.7	41.4	2.9	2.9	3.3	3.3	3	3	97	97	97	97			<0.2	<0.2	2.8	2.8
16-Aug-16	Cloudy	Moderate	12:39	6.3	Surface	1.0	0.6	209	27.3	27.3	7.8	7.8	21.5	21.6	71.7	71.7	5.0	4.3	2.3	2.3	4	4	87	87	87	87	821062	805826	<0.2	<0.2	3.4	3.4
						1.0	0.7	226	27.3	27.3	7.8	7.8	21.7	21.6	71.7	71.7	5.0	4.3	2.3	2.3	3	3	87	87	98	98			<0.2	<0.2	3.1	3.2
					Middle	3.2	0.5	221	26.1	26.1	7.8	7.8	27.1	27.1	49.8	49.8	3.5	3.5	8.8	8.8	9	9	95	95	89	89			<0.2	<0.2	3.4	3.4
						3.2	0.5	233	26.1	26.1	7.8	7.8	27.1	27.1	49.8	49.8	3.5	3.5	8.8	8.8	9	9	89	89	93	93			<0.2	<0.2	3.1	3.1
					Bottom	5.3	0.4	229	26.0	26.0	7.7	7.7	27.5	27.6	51.2	51.3	3.6	3.6	15.1	15.2	8	8	89	89	93	93			<0.2	<0.2	3.1	3.1
						5.3	0.4	235	25.9	26.0	7.7	7.7	27.6	27.6	51.4	51.3	3.6	3.6	15.2	15.2	8	8	93	93	93	93			<0.2	<0.2	3.1	3.1
20-Aug-16	Sunny	Moderate	12:40	7.4	Surface	1.0	0.5	174	29.0	29.0	7.7	7.7	22.1	22.1	79.6	79.6	5.4	5.2	4.4	4.4	5	5	87	87	87	87	821076	805809	<0.2	<0.2	3.0	3.0
						1.0	0.5	185	29.0	29.0	7.7	7.7	22.1	22.1	79.5	79.6	5.4	5.2	4.7	4.7	6	6	87	87	97	97			<0.2	<0.2	2.8	2.8
					Middle	3.7	0.5	143	26.8	26.8	7.8	7.8	28.2	28.3	73.5	73.5	5.0	5.0	30.5	30.5	32	32	97	97	98	98			<0.2	<0.2	1.5	1.5
						3.7	0.5	144	26.8	26.8	7.8	7.8	28.3	28.3	73.5	73.5	5.0	5.0	30.6	30.6	31	31	98	98	98	98			<0.2	<0.2	1.6	1.6
					Bottom	6.4	0.4	130	26.7	26.8	7.9	7.9	28.7	28.7	74.4	74.5	5.1	5.1	79.2	79.2	35	35	98	98	99	99			<0.2	<0.2	2.1	2.1
						6.4	0.4	141	26.8	26.8	7.9	7.9	28.7	28.7	74.6	74.5	5.1	5.1	78.6	78.6	36	36	99	99	99	99			<0.2	<0.2	1.7	1.7
23-Aug-16	Cloudy	Moderate	14:46	7.4	Surface	1.0	0.3	156	29.3	29.3	7.8	7.8	19.4	19.4	85.8	85.8	5.9	5.5	2.6	2.6	4	4	88	88	84	84	821042	805810	<0.2	<0.2	1.9	1.9
						1.0	0.3	163	29.3	29.3	7.8	7.8	19.4	19.4	85.8	85.8	5.9	5.5	2.7	2.7	4	4	84	84	91	91			<0.2	<0.2	2.2	2.2
					Middle	3.7	0.4	85	28.2	28.2	7.8	7.8	24.2	24.2	76.0	75.8	5.2	5.2	6.1	6.1	17	17	87	87	91	91			<0.2	<0.2	1.4	1.4
						3.7	0.4	88	28.2	28.2	7.8	7.8	24.2	24.2	75.5	75.5	5.1	5.1	6.6	6.6	18	18	87	87	96	96			<0.2	<0.2	1.7	1.7
					Bottom	6.4	0.3	117	27.9	27.7	7.8	7.8	26.7	26.9	72.2	72.5	4.9	4.9	20.4	20.4	18	18	96	96	93	93			<0.2	<0.2	2.0	2.0
						6.4	0.3	121	27.5	27.7	7.8	7.8	27.0	26.9	72.8	72.5	4.9	4.9	22.7	22.7	18	18	93	93	93	93			<0.2	<0.2	2.6	2.6
25-Aug-16	Fine	Moderate	16:49	6.9	Surface	1.0	0.3	202	30.6	30.6	7.8	7.8	15.9	15.9	94.9	94.9	6.5	6.0	1.1	1.1	2	2	82	82	79	79	821071	805828	<0.2	<0.2	3.3	3.3
						1.0	0.3	213	30.6	30.6	7.8	7.8	15.9	15.9	94.9	94.9	6.5	6.0	1.1	1.1	2	2	79	79	96	96			<0.2	<0.2	3.5	3.5
					Middle	3.5	0.3	117	28.9	28.9	7.8	7.8	19.6	19.6	80.0	80.0																

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

Water Quality Monitoring

Water Quality Monitoring Results at IM7 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	15:38	7.4	Surface	1.0	0.7	217	27.1	27.1	7.7	7.7	22.7	22.7	74.7	74.7	5.2	5.0	6.7	22.4	7	12	88	91	821347	806847	<0.2	<0.2	2.1	1.6
						1.0	0.8	234	27.1	27.1	7.7	7.7	22.7	22.7	74.7	74.7	5.2	5.0	6.8	22.4	7	12	85	91	821347	806847	<0.2	<0.2	2.1	1.6
						3.7	0.6	225	26.0	26.0	7.7	7.7	26.3	26.3	67.0	67.0	4.7	4.7	15.9	22.4	14	12	92	91	821347	806847	<0.2	<0.2	1.4	1.4
					Middle	3.7	0.6	243	26.0	26.0	7.7	7.7	26.3	26.3	67.0	67.0	4.7	4.7	16.1	22.4	15	12	91	91	821347	806847	<0.2	<0.2	1.4	1.4
						6.4	0.4	212	25.6	25.6	7.8	7.8	27.2	27.2	66.6	66.7	4.7	4.7	45.2	22.4	15	12	97	91	821347	806847	<0.2	<0.2	1.4	1.4
						6.4	0.4	218	25.6	25.6	7.8	7.8	27.2	27.2	66.7	66.7	4.7	4.7	43.8	22.4	16	12	95	91	821347	806847	<0.2	<0.2	1.3	1.3
6-Aug-16	Sunny	Moderate	13:35	8.6	Surface	1.0	0.4	231	28.9	28.9	7.7	7.7	18.8	18.8	80.8	80.8	5.6	4.9	1.9	12.0	<2	16	90	95	821356	806823	<0.2	<0.2	2.6	1.7
						1.0	0.4	253	28.9	28.9	7.7	7.7	18.8	18.8	80.7	80.8	5.6	4.9	2.1	12.0	<2	16	87	95	821356	806823	<0.2	<0.2	2.6	1.7
						4.3	0.4	220	26.7	26.4	7.7	7.7	26.5	26.8	58.9	59.2	4.1	4.1	11.7	12.0	3	16	94	95	821356	806823	<0.2	<0.2	1.4	1.6
					Middle	4.3	0.4	226	26.1	26.1	7.7	7.7	27.1	26.8	59.4	59.2	4.1	4.1	12.6	12.0	4	16	97	95	821356	806823	<0.2	<0.2	1.6	1.6
						7.6	0.5	233	26.4	26.3	7.7	7.7	27.6	27.7	57.6	57.8	4.0	4.0	21.8	12.0	42	16	101	95	821356	806823	<0.2	<0.2	1.2	1.2
						7.6	0.5	238	26.2	26.3	7.7	7.7	27.7	27.7	58.0	57.8	4.0	4.0	22.1	12.0	43	16	100	95	821356	806823	<0.2	<0.2	1.0	1.0
9-Aug-16	Cloudy	Moderate	15:11	8.6	Surface	1.0	0.4	147	29.5	29.7	7.9	7.9	16.1	16.6	93.4	92.8	6.5	5.6	1.3	7.5	2	5	88	92	821366	806844	<0.2	<0.2	2.8	2.3
						1.0	0.5	147	29.9	29.7	7.9	7.9	17.1	16.6	92.2	92.8	6.4	5.6	1.2	7.5	3	5	89	92	821366	806844	<0.2	<0.2	2.9	2.3
						4.3	0.4	197	27.7	27.5	7.8	7.8	23.8	23.9	67.4	67.6	4.7	4.7	3.6	7.5	4	5	92	92	821366	806844	<0.2	<0.2	2.2	2.4
					Middle	4.3	0.4	201	27.3	27.5	7.8	7.8	24.0	23.9	67.7	67.6	4.7	4.7	3.8	7.5	4	5	94	92	821366	806844	<0.2	<0.2	2.4	2.4
						7.6	0.3	54	25.2	25.2	7.7	7.7	30.0	30.0	53.3	54.0	3.7	3.8	17.7	7.5	8	5	97	92	821366	806844	<0.2	<0.2	1.6	1.6
						7.6	0.3	56	25.1	25.2	7.7	7.7	30.0	30.0	54.7	54.0	3.8	3.8	17.2	7.5	8	5	94	92	821366	806844	<0.2	<0.2	1.6	1.6
11-Aug-16	Sunny	Moderate	17:01	8.0	Surface	1.0	0.3	184	28.3	28.4	7.8	7.8	20.0	20.0	76.7	76.5	5.4	4.9	1.5	2.4	3	3	79	89	821339	806825	<0.2	<0.2	3.4	2.8
						1.0	0.3	194	28.5	28.4	7.8	7.8	19.9	20.0	76.3	76.5	5.3	4.9	1.5	2.4	2	3	76	89	821339	806825	<0.2	<0.2	4.3	3.3
						4.0	0.3	155	26.9	27.0	7.8	7.8	25.1	25.1	64.0	63.9	4.4	4.4	1.6	2.4	3	3	91	89	821339	806825	<0.2	<0.2	3.3	1.8
					Middle	4.0	0.3	158	27.0	27.0	7.8	7.8	25.0	25.1	63.8	63.9	4.4	4.4	1.6	2.4	2	3	92	89	821339	806825	<0.2	<0.2	1.8	1.8
						7.0	0.3	132	24.8	25.1	7.7	7.7	31.0	30.8	53.9	53.9	3.8	3.8	4.1	2.4	3	3	98	89	821339	806825	<0.2	<0.2	1.8	1.8
						7.0	0.3	143	25.3	25.1	7.7	7.7	30.6	30.8	53.8	53.9	3.7	3.8	3.8	2.4	4	3	96	89	821339	806825	<0.2	<0.2	2.0	2.0
13-Aug-16	Fine	Moderate	10:57	7.5	Surface	1.0	0.4	199	27.8	27.8	7.8	7.8	21.8	22.0	73.4	73.4	5.1	4.4	1.3	2.0	<2	2	85	87	821341	806837	<0.2	<0.2	4.2	3.1
						1.0	0.4	216	27.8	27.8	7.8	7.8	22.1	22.0	73.4	73.4	5.1	4.4	1.4	2.0	<2	2	83	87	821341	806837	<0.2	<0.2	4.4	3.1
						3.8	0.4	198	26.6	26.6	7.7	7.7	26.9	26.9	52.4	52.5	3.6	3.6	2.3	2.0	<2	2	86	87	821341	806837	<0.2	<0.2	3.6	3.9
					Middle	3.8	0.4	208	26.6	26.6	7.7	7.7	26.9	26.9	52.5	52.5	3.6	3.6	2.3	2.0	<2	2	87	87	821341	806837	<0.2	<0.2	3.9	3.9
						6.5	0.3	217	25.9	25.9	7.7	7.7	29.3	29.4	42.2	42.3	2.9	2.9	2.4	2.0	3	2	92	87	821341	806837	<0.2	<0.2	1.2	1.2
						6.5	0.3	227	25.9	25.9	7.7	7.7	29.4	29.4	42.4	42.3	2.9	2.9	2.5	2.0	3	2	90	87	821341	806837	<0.2	<0.2	1.4	1.4
16-Aug-16	Cloudy	Moderate	12:49	7.8	Surface	1.0	0.6	211	27.0	27.1	7.8	7.8	23.8	23.8	68.3	68.3	4.8	4.1	2.5	6.9	3	5	96	94	821350	806850	<0.2	<0.2	3.3	2.1
						1.0	0.6	223	27.1	27.1	7.8	7.8	23.8	23.8	68.3	68.3	4.8	4.1	2.5	6.9	3	5	92	94	821350	806850	<0.2	<0.2	2.8	2.1
						3.9	0.4	228	26.1	26.1	7.7	7.7	27.8	27.8	47.7	47.8	3.3	3.3	9.3	6.9	6	5	89	94	821350	806850	<0.2	<0.2	1.9	1.6
					Middle	3.9	0.5	249	26.0	26.1	7.7	7.7	27.8	27.8	47.8	47.8	3.3	3.3	9.3	6.9	7	5	91	94	821350	806850	<0.2	<0.2	1.6	1.6
						6.8	0.3	225	25.6	25.8	7.8	7.8	28.3	28.2	52.4	52.6	3.6	3.7	8.9	6.9	6	5	97	94	821350	806850	<0.2	<0.2	1.7	1.7
						6.8	0.3	246	25.9	25.8	7.8	7.8	28.1	28.2	52.7	52.6	3.7	3.7	8.9	6.9	6	5	96	94	821350	806850	<0.2	<0.2	1.4	1.4
20-Aug-16	Sunny	Moderate	12:31	9.0	Surface	1.0	0.4	144	28.1	28.4	7.8	7.8	24.0	23.9	81.3	81.0	5.6	5.4	4.0	12.3	5	12	86	92	821349	806834	<0.2	<0.2	2.7	2.4
						1.0	0.4	151	28.6	28.4	7.8	7.8	23.8	23.9	80.6	81.0	5.5	5.4	3.7	12.3	5	12	88	92	821349	806834	<0.2	<0.2	3.3	2.4
						4.5	0.4	148	28.0	27.7	7.8	7.8	25.1	25.3	76.2	76.6	5.2	5.2	9.2	12.3	8	12	89	92	821349	806834	<0.2	<0.2	2.4	2.2
					Middle	4.5	0.5	154	27.4	27.7	7.8	7.8	25.4	25.3	76.9	76.6	5.3	5.3	9.4	12.3	7	12	90	92	821349	806834	<0.2	<0.2	2.2	2.2
						8.0	0.4	124	26.8	27.1	7.9	7.9	28.1	28.0	76.4	76.3	5.2	5.2	23.8	12.3	23	12	99	92	821349	806834	<0.2	<0.2	1.9	1.9
						8.0	0.4	131	27.3	27.1	7.9	7.9	27.8	28.0	76.2	76.3	5.2	5.2	23.7	12.3	22	12	98	92	821349	806834	<0.2	<0.2	1.7	1.7
23-Aug-16	Cloudy	Moderate	14:38	9.0	Surface	1.0	0.3	102	29.7	30.0	7.7	7.7	18.3	18.2	83.6	83.3	5.7	5.4	3.2	17.6	3	21	83	86	821337	806845	<0.2	<0.2	3.1	2.7
						1.0	0.3	111	30.2	30.0	7.7	7.7	18.1	18.2	83.0	83.3	5.7	5.4	2.9	17.6	4	21	82	86	821337	806845	<0.2	<0.2	3.1	2.7
						4.5	0.4	79	28.1	28.3	7.8	7.8	24.1	24.1	76.4	76.2	5.2	5.2	9.2	17.6	4	21	82	86	821337	806845	<0.2	<0.2	2.0	2.0
					Middle	4.5	0.4	80	28.5	28.3	7.8	7.8	24.0	24.1	75.9	76.2	5.1	5.1	9.1	17.6	4	21	83	86	821337	806845	<0.2	<0.2	2.5	2.5
						8.0	0.4	91	28.3	28.3	7.8	7.8	26.2	26.2	72.6	72.9	4.9	4.9	39.9	17.6	54	21	94	86	821337	806845	<0.2	<0.2	2.3	2.3
						8.0	0.4	96	28.3	28.3	7.8	7.8	26.2	26.2	73.1	72.9	4.9	4.9	41.3	17.6	54	21	94	86	821337	806845	<0.2	<0.2	3.4	3.4
25-Aug-16	Fine	Moderate	16:40	8.5	Surface	1.0	0.3	134	29.9	29.9	7.8	7.8	17.6	17.6	87.4	87.4	6.0	5.6	1.7	6.1	<2	8	84	91	821361	806837	<0.2	<0.2	3.1	2.4
						1.0	0.3	142	29.9	29.9	7.8	7.8	17.6	17.6	87.3	87.4	6.0	5.6	1.9	6.1	2	8	83	91	821361	806837	<0.2	<0.2	3.2	2.4
						4.3	0.4	111	28.5	28.5	7.																			

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

Water Quality Monitoring Results at IM8 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	14:44	8.1	Surface	1.0	0.7	188	25.8	25.8	7.7	7.7	22.2	22.2	78.6	78.6	5.6	5.5	4.4	8.2	6	6	82	87	821699	807850	<0.2	<0.2	2.0	1.7
						1.0	0.7	194	25.8	7.7	7.7	22.2	22.2	78.6	78.6	5.6	5.5	4.4	6	6	83	87	<0.2	<0.2			2.0	1.5		
						4.1	0.4	181	25.1	7.7	7.7	24.1	24.1	73.7	73.6	5.3	5.3	7.3	5	5	87	89	<0.2	<0.2			1.6	1.6		
					Middle	4.1	0.4	181	25.1	7.7	7.7	24.1	24.1	73.6	73.6	5.3	5.3	7.4	6	6	89	91	<0.2	<0.2			1.6	1.5		
						7.1	0.3	138	24.2	7.7	7.7	27.5	27.5	73.7	73.7	5.3	5.3	13.0	6	6	89	91	<0.2	<0.2			1.6	1.5		
						7.1	0.3	144	24.2	7.7	7.7	27.5	27.5	73.7	73.7	5.3	5.3	13.0	6	6	91	93	<0.2	<0.2			1.5	1.4		
6-Aug-16	Sunny	Moderate	14:06	8.8	Surface	1.0	0.4	174	26.3	26.3	7.6	7.6	22.3	22.3	66.4	66.4	4.7	4.7	4.5	7.4	3	4	84	90	821704	807832	<0.2	<0.2	3.6	2.2
						1.0	0.5	184	26.3	7.6	7.6	22.3	22.3	66.4	66.4	4.7	4.7	4.5	3	4	87	90	<0.2	<0.2			3.6	1.7		
						4.4	0.3	168	25.4	7.6	7.6	24.4	24.4	66.1	66.2	4.7	4.7	7.7	5	5	92	92	<0.2	<0.2			1.6	1.5		
					Middle	4.4	0.3	173	25.4	7.6	7.6	24.4	24.4	66.2	66.2	4.7	4.7	7.8	6	6	92	93	<0.2	<0.2			1.6	1.5		
						7.8	0.3	126	24.9	7.7	7.7	26.8	26.8	66.5	66.5	4.7	4.7	9.8	4	4	92	93	<0.2	<0.2			1.5	1.4		
						7.8	0.3	128	24.9	7.7	7.7	26.8	26.8	66.5	66.5	4.7	4.7	9.8	4	4	93	93	<0.2	<0.2			1.4	1.4		
9-Aug-16	Cloudy	Moderate	15:53	8.4	Surface	1.0	0.4	181	27.8	27.8	7.8	7.8	17.1	17.1	88.7	88.7	6.3	5.3	1.8	5.4	4	5	86	90	821714	807830	<0.2	<0.2	2.8	2.7
						1.0	0.4	187	27.8	7.8	7.8	17.1	17.1	88.7	88.7	6.3	5.3	1.8	5	5	85	90	<0.2	<0.2			2.8	2.5		
						4.2	0.4	184	26.1	7.6	7.6	24.0	24.0	59.7	59.7	4.2	4.2	3.7	6	6	91	90	<0.2	<0.2			2.4	2.5		
					Middle	4.2	0.4	193	26.1	7.6	7.6	23.9	24.0	59.7	59.7	4.2	4.2	3.8	6	6	90	93	<0.2	<0.2			2.5	2.8		
						7.4	0.3	160	24.0	7.6	7.6	29.4	29.4	54.1	54.1	3.8	3.8	10.6	6	6	93	92	<0.2	<0.2			2.8	2.9		
						7.4	0.4	167	24.0	7.6	7.6	29.4	29.4	54.1	54.1	3.8	3.8	10.6	5	5	92	92	<0.2	<0.2			2.9	2.9		
11-Aug-16	Fine	Moderate	17:47	8.1	Surface	1.0	0.2	199	26.4	26.4	7.7	7.7	21.7	21.7	76.3	76.3	5.4	4.8	0.6	1.9	<2	3	82	87	821696	807845	<0.2	<0.2	3.0	2.0
						1.0	0.2	199	26.4	7.7	7.7	21.7	21.7	76.3	76.3	5.4	4.8	0.6	3	3	84	90	<0.2	<0.2			2.1	1.6		
						4.1	0.1	174	25.4	7.7	7.7	25.8	25.8	58.3	58.0	4.1	4.1	1.6	6	6	86	87	<0.2	<0.2			2.0	2.0		
					Middle	4.1	0.1	175	25.4	7.7	7.7	25.8	25.8	57.6	58.0	4.1	4.1	1.6	5	5	87	90	<0.2	<0.2			2.0	1.5		
						7.1	0.1	150	23.5	7.7	7.7	30.5	30.5	49.4	49.5	3.5	3.5	3.5	5	5	90	93	<0.2	<0.2			1.5	1.7		
						7.1	0.2	156	23.5	7.7	7.7	30.5	30.5	49.5	49.5	3.5	3.5	3.5	5	5	93	93	<0.2	<0.2			1.7	1.7		
13-Aug-16	Fine	Moderate	10:04	7.3	Surface	1.0	0.5	175	25.4	25.4	7.8	7.8	19.1	19.0	60.7	60.6	5.5	4.6	1.2	3.5	2	3	80	85	821700	807845	<0.2	<0.2	2.8	2.1
						1.0	0.5	177	25.4	7.7	7.7	18.9	19.0	60.4	60.6	5.3	4.6	1.2	3	3	82	85	<0.2	<0.2			3.0	1.6		
						3.7	0.2	194	24.3	7.7	7.7	22.7	22.7	48.6	48.6	3.7	3.7	3.0	3	3	85	85	<0.2	<0.2			1.6	1.5		
					Middle	3.7	0.2	199	24.3	7.7	7.7	22.7	22.7	48.6	48.6	3.8	3.8	3.1	2	2	85	90	<0.2	<0.2			1.5	1.9		
						6.3	0.1	236	23.9	7.7	7.7	29.5	29.5	51.5	52.0	3.5	3.5	6.5	4	4	90	89	<0.2	<0.2			1.9	1.8		
						6.3	0.1	246	24.0	7.7	7.7	29.4	29.5	52.5	52.0	3.4	3.5	6.2	4	4	89	93	<0.2	<0.2			1.8	1.8		
16-Aug-16	Cloudy	Moderate	12:26	8.0	Surface	1.0	0.8	188	24.8	24.8	7.9	7.9	24.5	24.5	61.7	61.7	4.4	4.2	3.0	7.0	2	5	84	89	821677	807854	<0.2	<0.2	2.4	2.8
						1.0	0.8	203	24.8	7.9	7.9	24.5	24.5	61.7	61.7	4.4	4.2	3.1	2	2	83	89	<0.2	<0.2			2.5	3.0		
						4.0	0.7	198	24.3	7.9	7.9	26.4	26.4	55.4	55.5	4.0	4.0	8.0	4	4	89	91	<0.2	<0.2			3.6	3.6		
					Middle	4.0	0.7	215	24.3	7.9	7.9	26.4	26.4	55.6	55.5	4.0	4.0	8.0	9	9	91	93	<0.2	<0.2			3.6	3.4		
						7.0	0.4	223	23.8	7.9	7.9	28.0	28.0	61.9	61.9	4.4	4.4	10.0	8	8	93	94	<0.2	<0.2			3.4	1.8		
						7.0	0.4	236	23.8	7.9	7.9	28.0	28.0	61.9	61.9	4.4	4.4	10.0	8	8	94	94	<0.2	<0.2			1.8	1.8		
20-Aug-16	Fine	Moderate	13:03	9.0	Surface	1.0	0.5	187	26.0	26.1	7.8	7.8	24.2	24.2	78.0	78.1	5.5	5.5	3.6	5.8	2	4	81	88	821684	807845	<0.2	<0.2	3.1	2.7
						1.0	0.5	205	26.1	7.8	7.8	24.2	24.2	78.2	78.1	5.5	5.5	3.6	5	5	82	89	<0.2	<0.2			2.9	2.5		
						4.5	0.4	179	26.1	7.9	7.9	26.1	26.1	78.1	78.1	5.5	5.5	5.0	4	4	89	90	<0.2	<0.2			2.5	2.6		
					Middle	4.5	0.4	188	26.1	7.9	7.9	26.1	26.1	78.0	78.1	5.5	5.5	5.0	5	5	90	92	<0.2	<0.2			2.6	2.5		
						8.0	0.4	173	25.4	7.9	7.9	27.8	27.9	78.2	78.3	5.5	5.5	8.7	6	6	92	93	<0.2	<0.2			2.5	2.5		
						8.0	0.4	182	25.4	7.9	7.9	27.9	27.9	78.3	78.3	5.5	5.5	8.8	4	4	93	93	<0.2	<0.2			2.5	2.5		
23-Aug-16	Sunny	Moderate	15:14	8.7	Surface	1.0	0.4	145	26.8	26.8	7.9	7.9	21.4	21.4	78.6	78.6	5.6	5.6	5.2	7.4	2	4	84	89	821703	807847	<0.2	<0.2	2.2	1.2
						1.0	0.4	147	26.8	7.9	7.9	21.4	21.4	78.6	78.6	5.6	5.6	5.2	4	4	85	89	<0.2	<0.2			2.2	0.8		
						4.4	0.4	109	26.6	7.9	7.9	22.3	22.3	77.3	77.3	5.5	5.5	6.8	5	5	89	90	<0.2	<0.2			0.8	0.6		
					Middle	4.4	0.4	115	26.6	7.9	7.9	22.3	22.3	77.3	77.3	5.5	5.5	6.9	4	4	90	92	<0.2	<0.2			0.8	0.6		
						7.7	0.3	108	26.2	7.9	7.9	25.6	25.6	77.0	77.1	5.4	5.4	10.1	4	4	92	93	<0.2	<0.2			0.6	0.7		
						7.7	0.4	114	26.2	7.9	7.9	25.6	25.6	77.1	77.1	5.4	5.4	10.1	4	4	93	93	<0.2	<0.2			0.7	0.7		
25-Aug-16	Fine	Moderate	17:01	8.2	Surface	1.0	0.4	93	30.0	30.0	7.8	7.8	16.6	16.6	81.4	81.4	5.6	5.3	3.8	6.7	<2	4	83	89	821711	807818	<0.2	<0.2	3.2	3.0
						1.0	0.4	93	30.0	7.8	7.8	16.5	16.6	81.4	81.4	5.6	5.3	3.8	2	2	84	90	<0.2	<0.2			3.4	2.8		
						4.1	0.4	83	28.7	7.9	7.9	20.6	20.6	72.6	72.6	5.0	5.0	4.7	6	6	90	92	<0.2	<0.2			3.2	2.7		
					Middle	4.1	0.4	90	28.7	7.9	7.9	20.6	20.6	72.6	72.6	5.0	5.0	4.7	2	2	91	92	<0.2	<0.2			2.8	2.7		
						7.2	0.3	128	27.6	7.9	7.9	26.3	26.3	63.5	63.6	4.3	4.3	11.6	6	6	92	93	<0.2	<0.2			2.7	2.7		
						7.2	0.3	130																						

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

Water Quality Monitoring

Water Quality Monitoring Results at IM9 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	14:33	7.5	Surface	1.0	0.6	160	26.1	26.1	7.7	7.7	21.7	21.7	79.0	78.9	5.7	5.5	5.1	11.6	5	7	84	88	822096	808825	<0.2	<0.2	2.2	2.4
						1.0	0.7	172	26.1	26.1	7.7	7.7	21.7	21.7	78.9	78.9	5.7		5.2		5		86				<0.2		2.2	
					Middle	3.8	0.6	143	25.2	25.2	7.7	7.7	23.7	23.7	72.3	72.3	5.2		11.4		4		88				<0.2		2.1	
						3.8	0.6	157	25.2	25.2	7.7	7.7	23.7	23.7	72.3	72.3	5.2		11.4		4		89				<0.2		2.7	
					Bottom	6.5	0.4	116	24.4	24.4	7.7	7.7	26.8	26.8	72.2	72.2	5.2		18.3		12		91				<0.2		2.6	
						6.5	0.4	124	24.4	24.4	7.7	7.7	26.8	26.8	72.2	72.2	5.2		18.3		12		92				<0.2		2.5	
6-Aug-16	Sunny	Moderate	14:14	7.5	Surface	1.0	0.5	157	27.0	27.0	7.6	7.6	20.0	20.0	69.0	69.0	4.9	4.7	3.7	13.0	<2	7	83	89	822075	808827	<0.2	<0.2	3.6	3.5
						1.0	0.5	161	27.0	27.0	7.6	7.6	20.0	20.0	69.0	69.0	4.9		3.7		<2		84				<0.2		3.5	
					Middle	3.8	0.5	126	25.6	25.6	7.6	7.6	24.7	24.7	63.2	63.2	4.5		12.2		4		87				<0.2		2.9	
						3.8	0.5	134	25.6	25.6	7.6	7.6	24.7	24.7	63.2	63.2	4.5		12.3		2		91				<0.2		3.1	
					Bottom	6.5	0.4	106	24.7	24.7	7.6	7.6	27.5	27.5	62.5	62.6	4.4		23.0		14		94				<0.2		4.0	
						6.5	0.4	110	24.7	24.7	7.6	7.6	27.5	27.5	62.6	62.6	4.4		22.8		15		93				<0.2		3.6	
9-Aug-16	Cloudy	Moderate	16:00	7.3	Surface	1.0	0.5	142	27.5	27.5	7.8	7.8	18.8	18.8	83.3	83.3	5.9	5.4	4.1	5.9	2	4	83	89	822079	808810	<0.2	<0.2	3.1	2.9
						1.0	0.5	145	27.5	27.5	7.8	7.8	18.8	18.8	83.3	83.3	5.9		4.1		2		85				<0.2		3.3	
					Middle	3.7	0.5	139	26.8	26.8	7.7	7.7	21.5	21.5	68.2	68.2	4.8		3.5		3		89				<0.2		3.1	
						3.7	0.5	142	26.8	26.8	7.7	7.7	21.5	21.5	68.2	68.2	4.8		3.5		3		90				<0.2		3.3	
					Bottom	6.3	0.5	106	24.5	24.5	7.7	7.7	28.4	28.4	62.2	62.2	4.4		10.0		6		93				<0.2		2.2	
						6.3	0.5	107	24.5	24.5	7.7	7.7	28.4	28.4	62.2	62.2	4.4		10.0		6		93				<0.2		2.5	
11-Aug-16	Fine	Moderate	17:57	7.2	Surface	1.0	0.1	174	25.8	25.8	7.7	7.7	23.9	24.0	71.1	71.0	5.0	4.6	0.7	6.9	<2	6	84	88	822085	808807	<0.2	<0.2	3.1	2.9
						1.0	0.2	181	25.8	25.8	7.7	7.7	24.0	24.0	70.9	71.0	5.0		0.7		<2		83				<0.2		3.3	
					Middle	3.6	0.1	155	25.1	25.1	7.7	7.7	26.8	26.8	58.0	58.0	4.1		2.6		<2		87				<0.2		3.1	
						3.6	0.1	155	25.1	25.1	7.7	7.7	26.8	26.8	58.0	58.0	4.1		2.6		<2		91				<0.2		3.3	
					Bottom	6.2	0.2	145	24.3	24.3	7.7	7.7	29.6	29.6	49.0	49.0	3.5		17.6		13		92				<0.2		2.2	
						6.2	0.2	145	24.3	24.3	7.7	7.7	29.5	29.6	49.0	49.0	3.5		17.3		12		92				<0.2		2.5	
13-Aug-16	Fine	Moderate	09:53	7.0	Surface	1.0	0.5	162	26.4	26.4	7.8	7.8	19.0	19.0	71.7	71.5	5.2	4.7	1.6	1.4	<2	3	80	85	822103	808822	<0.2	<0.2	3.2	2.8
						1.0	0.5	162	26.4	26.4	7.8	7.8	18.9	18.9	71.2	71.5	5.2		1.6		<2		81				<0.2		3.5	
					Middle	3.5	0.4	155	25.0	25.0	7.7	7.7	26.8	26.8	57.5	57.7	4.1		1.1		3		85				<0.2		3.0	
						3.5	0.4	156	25.0	25.0	7.7	7.7	26.7	26.8	57.8	57.7	4.1		1.1		3		83				<0.2		2.9	
					Bottom	6.0	0.3	145	24.9	24.9	7.7	7.7	27.1	27.1	55.9	56.0	4.0		1.4		4		88				<0.2		1.9	
						6.0	0.3	148	24.9	24.9	7.7	7.7	27.0	27.1	56.1	56.0	4.0		1.4		4		91				<0.2		2.0	
16-Aug-16	Cloudy	Moderate	12:17	7.2	Surface	1.0	0.8	132	25.4	25.4	7.9	7.9	22.3	22.3	70.8	70.7	5.1	4.5	2.7	8.1	<2	3	85	90	822107	808817	<0.2	<0.2	2.0	2.3
						1.0	0.8	138	25.4	25.4	7.9	7.9	22.3	22.3	70.5	70.7	5.1		2.8		<2		84				<0.2		2.5	
					Middle	3.6	0.5	125	23.9	23.9	7.9	7.9	27.8	27.8	52.5	52.6	3.8		10.2		2		92				<0.2		2.2	
						3.6	0.5	132	23.9	23.9	7.9	7.9	27.8	27.8	52.6	52.6	3.8		10.3		3		92				<0.2		2.1	
					Bottom	6.2	0.4	123	23.8	23.8	7.9	7.9	28.1	28.1	54.3	54.3	3.9		11.3		4		93				<0.2		2.2	
						6.2	0.4	126	23.8	23.8	7.9	7.9	28.1	28.1	54.3	54.3	3.9		11.3		5		94				<0.2		2.6	
20-Aug-16	Fine	Moderate	13:11	7.7	Surface	1.0	0.5	134	26.3	26.3	7.8	7.8	22.8	22.8	76.0	76.0	5.4	5.3	5.6	9.9	3	8	85	89	822103	808813	<0.2	<0.2	3.1	2.7
						1.0	0.5	138	26.3	26.3	7.8	7.8	22.8	22.8	75.9	76.0	5.4		5.8		2		86				<0.2		3.3	
					Middle	3.9	0.4	140	25.2	25.2	7.9	7.9	27.3	27.4	73.9	74.0	5.2		12.0		6		91				<0.2		2.6	
						3.9	0.5	153	25.2	25.2	7.9	7.9	27.4	27.4	74.0	74.0	5.2		12.0		6		90				<0.2		2.3	
					Bottom	6.7	0.4	133	25.2	25.2	7.9	7.9	27.8	27.8	75.3	75.3	5.3		12.0		15		92				<0.2		2.0	
						6.7	0.4	143	25.2	25.2	7.9	7.9	27.8	27.8	75.3	75.3	5.3		12.0		15		92				<0.2		2.8	
23-Aug-16	Sunny	Moderate	15:21	7.6	Surface	1.0	0.5	145	27.7	27.7	7.8	7.8	17.5	17.5	77.7	77.6	5.5	5.3	3.5	9.0	4	4	84	89	822087	808806	<0.2	<0.2	1.1	1.3
						1.0	0.6	150	27.7	27.7	7.8	7.8	17.5	17.5	77.5	77.6	5.5		3.5		3		85				<0.2		1.1	
					Middle	3.8	0.5	132	26.5	26.5	7.8	7.8	22.1	22.1	70.7	70.8	5.0		8.3		4		91				<0.2		2.2	
						3.8	0.5	138	26.5	26.5	7.8	7.8	22.1	22.1	70.8	70.8	5.0		8.4		3		91				<0.2		1.2	
					Bottom	6.6	0.4	96	26.3	26.3	7.9	7.9	24.6	24.6	75.8	75.9	5.3		15.0		5		91				<0.2		1.0	
						6.6	0.5	102	26.3	26.3	7.9	7.9	24.6	24.6	75.9	75.9	5.3		15.2		6		93				<0.2		1.0	
25-Aug-16	Fine	Moderate	17:09	7.1	Surface	1.0	0.4	100	30.6	30.6	7.8	7.8	15.1	14.9	80.0	79.9	5.5	5.4	3.5	4.8	<2	3	84	90	822095	808798	<0.2	<0.2	3.5	2.8
						1.0	0.4	105	30.6	30.6	7.8	7.8	14.7	14.9	79.8	79.9	5.5		3.5		2		85				<0.2		3.5	
					Middle	3.6	0.4	81	29.6	29.7	7.9	7.9	19.2	19.2	76.5	76.5	5.2		3.4		2		91				<0.2		3.3	
						3.6	0.5	84	29.7	29.7	7.9	7.9	19.1	19.2	76.4	76.5	5.2		3.4		3		91				<0.2		3.2	
					Bottom	6.1	0.4	137	28.0	28.0	7.9	7.9	24.7	24.7	66.4	66.4	4.5		7.3		4		93				<0.2		1.9	
						6.1	0.4	141	28.0	28.0	7.9	7.9	24.7	24.7	66.4	66.4	4.5		7.4		3		93				<0.2		1.6	
27-Aug-16	Fine	Moderate	09:17	7.0	Surface	1.0	0.5	172	29.2	29.2	7.9	7.9	19.8	19.8	78.0	78.0	5.4	4.7	2.7	5.4	<2	2	83	89	822081	808828	<0.2	<0.2	2.1	2.5
						1.0	0.6	177	29.2	29.2	7.9	7.9	19.8	19.8	78.0	78.0	5.4		2.7		<2		84				<0.2		2.7	
					Middle	3.5	0.4	156	28.0	28.0	7.8	7.8	24.7	24.7	56.8	56.8	3.9		5.7		<2		89				<0.2		3.1	
						3.5	0.4	158	28.0	28.0	7.8	7.8	24.7	24.7	56.8	56.8	3.9		5.8		<2		91				<0.2		3.0	
					Bottom	6.0	0.3	146	27.3	27.3	7.9	7.9	27.9	27.9	61.1	61.2	4.2		7.7		2		91				<0.2		1.9	
						6.0	0.3	146</																						

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

Water Quality Monitoring Results at IM10 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	14:21	9.0	Surface	1.0	0.6	149	25.8	25.8	7.7	7.7	22.3	22.3	78.4	78.4	5.6	5.4	5.3	5	8	85	89	822237	809819	<0.2	<0.2	1.7	1.8	
						1.0	0.7	150	25.8	25.8	7.7	7.7	22.3	22.3	78.4	78.4	5.6	5.4	5.3	4	8	88	89			<0.2	<0.2	1.5	1.8	
						4.5	0.6	116	25.2	25.2	7.7	7.7	23.7	23.7	71.7	71.6	5.2	5.1	20.8	5	8	89	89			<0.2	<0.2	1.9	1.8	
					Middle	4.5	0.6	119	25.2	25.2	7.7	7.7	23.7	23.7	71.5	71.6	5.1	5.1	21.5	5	8	89	89			<0.2	<0.2	1.9	1.8	
						8.0	0.4	107	24.2	24.2	7.7	7.7	27.0	27.0	67.0	67.0	4.8	4.8	57.0	15	8	91	91			<0.2	<0.2	1.9	1.8	
						8.0	0.4	107	24.2	24.2	7.7	7.7	27.0	27.0	67.0	67.0	4.8	4.8	57.0	16	8	91	91			<0.2	<0.2	2.1	1.8	
6-Aug-16	Sunny	Moderate	14:22	7.8	Surface	1.0	0.6	139	27.0	27.0	7.6	7.6	20.4	20.4	71.1	71.1	5.0	4.7	3.3	2	7	81	89	822241	809842	<0.2	<0.2	4.2	3.6	
						1.0	0.6	149	26.9	27.0	7.6	7.6	20.4	20.4	71.0	71.1	5.0	4.7	3.3	2	7	82	89			<0.2	<0.2	3.8	3.6	
						3.9	0.5	118	25.8	25.8	7.6	7.6	23.5	23.5	60.8	60.8	4.3	4.3	15.0	2	7	89	89			<0.2	<0.2	3.8	3.6	
					Middle	3.9	0.5	124	25.8	25.8	7.6	7.6	23.4	23.5	60.8	60.8	4.3	4.3	15.4	3	7	90	90			<0.2	<0.2	3.5	3.6	
						6.8	0.4	132	25.2	25.2	7.6	7.6	26.0	26.0	60.5	60.5	4.3	4.3	24.7	16	7	93	93			<0.2	<0.2	3.1	3.6	
						6.8	0.4	138	25.2	25.2	7.6	7.6	26.0	26.0	60.5	60.5	4.3	4.3	24.7	16	7	93	93			<0.2	<0.2	3.1	3.6	
9-Aug-16	Cloudy	Moderate	16:09	7.3	Surface	1.0	0.4	144	27.6	27.6	7.8	7.8	18.4	18.4	84.6	84.6	6.0	5.7	1.8	3	5	87	90	822225	809840	<0.2	<0.2	3.0	2.8	
						1.0	0.5	155	27.6	27.6	7.8	7.8	18.4	18.4	84.6	84.6	6.0	5.7	1.8	2	5	86	90			<0.2	<0.2	3.0	2.8	
						3.7	0.4	133	26.8	26.8	7.7	7.7	22.0	22.0	75.0	75.1	5.3	5.3	2.4	3	5	91	90			<0.2	<0.2	2.7	2.8	
					Middle	3.7	0.4	133	26.8	26.8	7.7	7.7	22.0	22.0	75.1	75.1	5.3	5.3	2.5	3	5	91	90			<0.2	<0.2	3.2	2.8	
						6.3	0.4	119	25.2	25.2	7.7	7.7	26.3	26.3	65.6	65.6	4.6	4.6	10.0	9	5	93	93			<0.2	<0.2	2.5	2.8	
						6.3	0.4	127	25.2	25.2	7.7	7.7	26.3	26.3	65.6	65.6	4.6	4.6	10.0	8	5	92	92			<0.2	<0.2	2.5	2.8	
11-Aug-16	Fine	Moderate	18:07	7.0	Surface	1.0	0.2	108	26.5	26.5	7.8	7.8	21.4	21.5	82.4	81.8	5.9	5.3	0.4	<2	4	80	85	822243	809847	<0.2	<0.2	3.0	2.8	
						1.0	0.2	115	26.5	26.5	7.8	7.8	21.5	21.5	81.2	81.8	5.8	5.3	0.4	<2	4	82	85			<0.2	<0.2	3.0	2.8	
						3.5	0.1	193	25.4	25.4	7.7	7.7	25.3	25.3	67.5	67.3	4.8	4.8	0.6	3	4	84	85			<0.2	<0.2	2.7	2.8	
					Middle	3.5	0.1	206	25.4	25.4	7.7	7.7	25.3	25.3	67.1	67.3	4.8	4.8	0.6	3	4	86	85			<0.2	<0.2	3.2	2.8	
						6.0	0.2	163	24.3	24.3	7.6	7.6	28.8	28.8	46.5	46.8	3.3	3.3	7.3	8	4	89	85			<0.2	<0.2	2.5	2.8	
						6.0	0.2	167	24.3	24.3	7.6	7.6	28.7	28.8	47.1	46.8	3.3	3.3	7.4	8	4	90	85			<0.2	<0.2	2.5	2.8	
13-Aug-16	Fine	Moderate	09:41	6.9	Surface	1.0	0.5	133	26.4	26.4	7.8	7.8	20.1	19.4	75.6	75.4	5.4	5.1	1.6	<2	5	84	87	822224	809838	<0.2	<0.2	4.4	3.1	
						1.0	0.6	133	26.3	26.3	7.8	7.8	18.6	18.6	75.1	75.4	5.5	5.1	1.6	<2	5	82	87			<0.2	<0.2	4.3	3.1	
						3.5	0.5	134	25.2	25.4	7.8	7.8	27.0	26.6	66.6	66.7	4.7	4.7	1.1	<2	5	87	87			<0.2	<0.2	3.3	3.1	
					Middle	3.5	0.5	141	25.6	25.4	7.8	7.8	26.1	26.6	66.8	66.7	4.7	4.7	1.1	<2	5	88	87			<0.2	<0.2	3.1	3.1	
						5.9	0.3	99	23.5	23.6	7.7	7.7	30.4	30.4	47.6	48.5	3.4	3.5	5.9	<2	5	92	87			<0.2	<0.2	1.8	3.1	
						5.9	0.4	100	23.6	23.6	7.7	7.7	30.3	30.4	49.4	48.5	3.5	3.5	5.3	<2	5	90	87			<0.2	<0.2	1.8	3.1	
16-Aug-16	Cloudy	Moderate	12:06	8.0	Surface	1.0	0.7	154	25.1	25.1	7.9	7.9	23.6	23.6	70.0	70.0	5.0	4.5	2.3	2	6	84	90	822220	809849	<0.2	<0.2	2.3	2.2	
						1.0	0.8	165	25.1	25.1	7.9	7.9	23.6	23.6	69.9	70.0	5.0	4.5	2.4	2	6	88	90			<0.2	<0.2	2.4	2.2	
						4.0	0.5	154	23.9	23.9	7.9	7.9	27.6	27.6	53.7	53.7	3.9	3.9	15.2	8	6	91	90			<0.2	<0.2	2.1	2.2	
					Middle	4.0	0.5	156	23.9	23.9	7.9	7.9	27.6	27.6	53.7	53.7	3.9	3.9	15.2	8	6	92	90			<0.2	<0.2	2.0	2.2	
						7.0	0.3	148	23.8	23.8	7.9	7.9	28.0	28.0	56.9	56.9	4.1	4.1	16.7	8	6	93	90			<0.2	<0.2	2.2	2.2	
						7.0	0.3	156	23.8	23.8	7.9	7.9	28.0	28.0	56.9	56.9	4.1	4.1	16.7	8	6	93	90			<0.2	<0.2	2.3	2.2	
20-Aug-16	Fine	Moderate	13:20	8.4	Surface	1.0	0.9	129	26.3	26.3	7.8	7.8	22.9	22.9	76.6	76.6	5.4	5.3	4.4	2	10	85	90	822254	809830	<0.2	<0.2	2.8	2.5	
						1.0	0.9	131	26.3	26.3	7.8	7.8	22.9	22.9	76.5	76.6	5.4	5.3	4.6	2	10	87	90			<0.2	<0.2	2.6	2.5	
						4.2	0.7	114	25.3	25.3	7.9	7.9	26.8	26.8	72.8	72.9	5.1	5.1	16.2	11	10	91	90			<0.2	<0.2	2.7	2.5	
					Middle	4.2	0.7	116	25.3	25.3	7.9	7.9	26.8	26.8	72.9	72.9	5.2	5.2	16.2	10	10	90	90			<0.2	<0.2	2.4	2.5	
						7.4	0.5	96	25.2	25.2	7.9	7.9	27.4	27.4	73.3	73.3	5.2	5.2	21.3	16	10	93	90			<0.2	<0.2	2.3	2.5	
						7.4	0.5	96	25.2	25.2	7.9	7.9	27.4	27.4	73.3	73.3	5.2	5.2	21.3	16	10	92	90			<0.2	<0.2	2.0	2.5	
23-Aug-16	Sunny	Moderate	15:29	8.0	Surface	1.0	0.6	122	28.0	28.0	7.8	7.8	17.6	17.6	78.0	78.0	5.5	5.4	6.7	3	6	83	89	822224	809835	<0.2	<0.2	1.9	1.6	
						1.0	0.7	128	28.0	28.0	7.8	7.8	17.6	17.6	78.0	78.0	5.5	5.4	6.7	3	6	85	89			<0.2	<0.2	1.4	1.6	
						4.0	0.6	111	26.5	26.5	7.9	7.9	22.9	22.9	72.7	72.8	5.2	5.2	17.7	6	6	90	89			<0.2	<0.2	1.8	1.6	
					Middle	4.0	0.6	114	26.4	26.4	7.9	7.9	22.9	22.9	72.8	72.8	5.2	5.2	18.1	6	6	89	89			<0.2	<0.2	1.5	1.6	
						7.0	0.4	119	26.2	26.2	7.9	7.9	25.0	25.0	74.3	74.3	5.2	5.2	26.1	9	6	93	89			<0.2	<0.2	1.1	1.6	
						7.0	0.4	124	26.2	26.2	7.9	7.9	25.0	25.0	74.3	74.3	5.2	5.2	26.1	9	6	92	89			<0.2	<0.2	1.7	1.6	
25-Aug-16	Fine	Moderate	17:18	7.7	Surface	1.0	0.5	97	29.8	29.8	7.9	7.9	17.7	17.7	80.1	80.1	5.5	5.2	3.9	3	4	86	89	822224	809829	<0.2	<0.2	3.0	2.9	
						1.0	0.5	98	29.8	29.8	7.9	7.9	17.7	17.7	80.1	80.1	5.5	5.2	3.											

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

Water Quality Monitoring

Water Quality Monitoring Results at IM11 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA		
4-Aug-16	Cloudy	Moderate	14:12	9.2	Surface	1.0	0.8	117	25.9	25.9	7.7	7.7	22.1	22.1	77.9	77.8	5.6	5.4	2.5	25.2	6	7	81	87	821489	810545	<0.2	<0.2	2.1	2.1		
						1.0	0.8	121	25.9	25.9	7.7	7.7	22.1	22.1	77.7	77.8	5.6	5.4	2.5	25.2	6	7	84	87			<0.2	<0.2	2.4			
					Middle	4.6	0.7	94	24.8	24.8	7.7	7.7	25.0	25.0	71.4	71.4	5.1	5.1	14.1	25.2	8	7	88	90			<0.2	<0.2	2.1		2.1	
						4.6	0.7	99	24.8	24.8	7.7	7.7	25.0	25.0	71.4	71.4	5.1	5.1	14.1	25.2	8	7	89	90			<0.2	<0.2	2.1			
					Bottom	8.2	0.6	89	24.2	24.2	7.7	7.7	27.2	27.2	68.4	68.4	4.9	4.9	59.1	25.2	7	7	90	90			<0.2	<0.2	2.0			2.1
						8.2	0.6	97	24.2	24.2	7.7	7.7	27.2	27.2	68.4	68.4	4.9	4.9	59.1	25.2	7	7	91	90			<0.2	<0.2	2.1			
6-Aug-16	Sunny	Moderate	14:30	7.8	Surface	1.0	0.6	135	28.0	28.0	7.6	7.6	18.6	18.6	76.1	76.1	5.4	5.1	2.4	7.0	3	5	86	90	821485	810564	<0.2	<0.2	4.1	3.6		
						1.0	0.7	138	28.0	28.0	7.6	7.6	18.6	18.6	76.1	76.1	5.4	5.1	2.4	7.0	3	5	86	90			<0.2	<0.2	4.0			
					Middle	3.9	0.7	101	26.2	26.2	7.6	7.6	22.8	22.8	66.3	66.3	4.7	4.7	6.4	7.0	6	5	90	90			<0.2	<0.2	3.4		3.6	
						3.9	0.7	104	26.2	26.2	7.6	7.6	22.8	22.8	66.3	66.3	4.7	4.7	6.5	7.0	6	5	90	90			<0.2	<0.2	3.3			
					Bottom	6.8	0.6	88	25.3	25.3	7.6	7.6	25.7	25.7	62.5	62.5	4.4	4.4	12.0	7.0	6	5	93	90			<0.2	<0.2	3.3			3.6
						6.8	0.7	94	25.3	25.3	7.6	7.6	25.7	25.7	62.5	62.5	4.4	4.4	12.0	7.0	7	5	95	90			<0.2	<0.2	3.6			
9-Aug-16	Cloudy	Moderate	16:17	8.5	Surface	1.0	0.4	125	28.0	28.0	7.9	7.9	16.5	16.5	91.5	91.5	6.5	5.7	2.4	9.7	2	3	85	90	821494	810543	<0.2	<0.2	3.4	3.0		
						1.0	0.5	133	28.0	28.0	7.9	7.9	16.5	16.5	91.5	91.5	6.5	5.7	2.4	9.7	3	3	86	90			<0.2	<0.2	3.4			
					Middle	4.3	0.4	112	26.2	26.2	7.7	7.7	23.5	23.5	69.1	69.1	4.9	4.9	7.2	9.7	3	3	90	90			<0.2	<0.2	3.2		3.0	
						4.3	0.4	118	26.2	26.2	7.7	7.7	23.5	23.5	69.1	69.1	4.9	4.9	7.2	9.7	2	3	91	90			<0.2	<0.2	2.8			
					Bottom	7.5	0.3	130	25.6	25.6	7.6	7.6	25.9	25.9	67.2	67.2	4.7	4.7	19.6	9.7	2	3	93	90			<0.2	<0.2	2.5			3.0
						7.5	0.4	136	25.6	25.6	7.6	7.6	25.9	25.9	67.2	67.2	4.7	4.7	19.6	9.7	3	3	92	90			<0.2	<0.2	2.6			
11-Aug-16	Fine	Moderate	18:18	7.6	Surface	1.0	0.1	136	26.4	26.4	7.8	7.8	21.5	21.5	85.5	85.2	6.1	5.1	0.5	2.3	3	4	83	86	821494	810549	<0.2	<0.2	3.4	3.0		
						1.0	0.1	141	26.4	26.4	7.8	7.8	21.5	21.5	84.9	85.2	6.1	5.1	0.5	2.3	2	4	79	86			<0.2	<0.2	3.4			
					Middle	3.8	0.1	154	25.0	25.0	7.7	7.7	27.1	27.0	58.2	57.9	4.1	4.1	1.9	2.3	3	4	85	86			<0.2	<0.2	3.2		3.0	
						3.8	0.1	168	25.0	25.0	7.7	7.7	26.9	27.0	57.5	57.9	4.1	4.1	1.9	2.3	3	4	87	86			<0.2	<0.2	2.8			
					Bottom	6.6	0.2	120	24.3	24.3	7.6	7.6	29.2	29.2	46.5	46.8	3.3	3.3	4.5	2.3	6	4	92	86			<0.2	<0.2	2.5			3.0
						6.6	0.2	120	24.3	24.3	7.6	7.6	29.2	29.2	47.1	46.8	3.3	3.3	4.6	2.3	5	4	90	86			<0.2	<0.2	2.6			
13-Aug-16	Fine	Moderate	09:32	7.0	Surface	1.0	0.3	135	27.0	27.0	7.8	7.8	16.3	16.3	82.9	82.8	6.0	5.3	1.3	3.6	<2	<2	83	85	821492	810559	<0.2	<0.2	3.5	3.3		
						1.0	0.3	138	27.0	27.0	7.8	7.8	16.3	16.3	82.6	82.8	6.0	5.3	1.3	3.6	<2	<2	79	85			<0.2	<0.2	3.1			
					Middle	3.5	0.4	111	25.6	25.6	7.8	7.8	22.6	22.6	64.3	64.2	4.6	4.6	2.2	3.6	<2	<2	84	85			<0.2	<0.2	3.3		3.3	
						3.5	0.4	116	25.6	25.6	7.8	7.8	22.6	22.6	64.1	64.2	4.6	4.6	2.3	3.6	<2	<2	86	85			<0.2	<0.2	3.2			
					Bottom	6.0	0.4	97	23.6	23.6	7.7	7.7	29.9	29.9	51.6	52.8	3.7	3.8	7.4	3.6	<2	<2	89	85			<0.2	<0.2	3.4			3.3
						6.0	0.5	102	23.6	23.6	7.7	7.7	29.9	29.9	53.9	52.8	3.8	3.8	7.2	3.6	<2	<2	90	85			<0.2	<0.2	3.5			
16-Aug-16	Rainy	Moderate	11:56	8.7	Surface	1.0	0.6	113	25.0	25.0	7.9	7.9	23.8	23.8	69.4	69.4	5.0	4.6	2.4	6.5	2	4	85	89	821502	810560	<0.2	<0.2	1.6	1.8		
						1.0	0.6	113	25.0	25.0	7.9	7.9	23.8	23.8	69.3	69.4	5.0	4.6	2.4	6.5	3	4	86	89			<0.2	<0.2	1.8			
					Middle	4.4	0.6	96	24.3	24.3	7.9	7.9	26.2	26.2	58.4	58.4	4.2	4.2	7.2	6.5	4	4	89	89			<0.2	<0.2	2.2		1.8	
						4.4	0.6	104	24.3	24.3	7.9	7.9	26.2	26.2	58.4	58.4	4.2	4.2	7.2	6.5	3	4	90	89			<0.2	<0.2	1.7			
					Bottom	7.7	0.3	109	23.9	23.9	7.9	7.9	27.5	27.5	63.3	63.3	4.6	4.6	10.0	6.5	6	4	92	89			<0.2	<0.2	1.6			1.8
						7.7	0.3	111	23.9	23.9	7.9	7.9	27.5	27.5	63.3	63.3	4.6	4.6	10.0	6.5	6	4	93	89			<0.2	<0.2	2.0			
20-Aug-16	Fine	Moderate	13:27	9.1	Surface	1.0	0.8	123	26.3	26.3	7.8	7.8	22.9	22.9	76.2	76.2	5.4	5.4	3.5	5.9	<2	5	83	89	821494	810541	<0.2	<0.2	2.7	2.8		
						1.0	0.8	131	26.3	26.3	7.8	7.8	22.9	22.9	76.2	76.2	5.4	5.4	3.5	5.9	<2	5	83	89			<0.2	<0.2	3.1			
					Middle	4.6	0.7	109	25.6	25.6	7.9	7.9	25.5	25.5	75.1	75.2	5.3	5.3	6.6	5.9	6	5	90	89			<0.2	<0.2	2.9		2.8	
						4.6	0.7	110	25.6	25.6	7.9	7.9	25.5	25.5	75.2	75.2	5.3	5.3	6.6	5.9	5	5	91	89			<0.2	<0.2	2.7			
					Bottom	8.1	0.4	109	25.6	25.6	7.9	7.9	26.0	26.0	75.9	75.9	5.4	5.4	7.7	5.9	7	5	93	89			<0.2	<0.2	2.6			2.8
						8.1	0.5	110	25.6	25.6	7.9	7.9	26.0	26.0	75.9	75.9	5.4	5.4	7.7	5.9	8	5	93	89			<0.2	<0.2	2.6			
23-Aug-16	Sunny	Moderate	15:35	8.6	Surface	1.0	0.7	103	27.6	27.6	7.8	7.8	19.0	19.0	86.7	86.7	6.0	5.2	3.0	11.5	3	5	87	90	821504	810559	<0.2	<0.2	2.7	1.9		
						1.0	0.7	104	27.6	27.6	7.8	7.8	18.9	19.0	86.7	86.7	6.0	5.2	3.0	11.5	4	5	85	90			<0.2	<0.2	2.9			
					Middle	4.3	0.5	77	26.7	26.7	7.9	7.9	23.1	23.1	74.7	74.7	5.3	5.3	13.3	11.5	4	5	90	90			<0.2	<0.2	2.1		1.9	
						4.3	0.5	80	26.7	26.7	7.9	7.9	23.1	23.1	74.7	74.7	5.3	5.3	13.4	11.5	5	5	90	90			<0.2	<0.2	2.1			
					Bottom	7.6	0.4	106	26.3	26.3	7.9	7.9	24.4	24.4	74.2	74.2	5.2	5.2	19.2	11.5	5	5	92	90			<0.2	<0.2	2.1			1.9
						7.6	0.4	116	26.3	26.3	7.9	7.9	24.4	24.4	74.2	74.2	5.2	5.2	19.2	11.5	6	5	93	90			<0.2	<0.2	1.8			
25-Aug-16	Fine	Moderate	17:25	8.0	Surface	1.0	0.5	114	29.6	29.6	7.8	7.8	18.4	18.4	79.3	79.3	5.5	5.3	5.3	6.8	3	5	84	89	821482	810525	<0.2	<0.2	3.2	2.8		
						1.0	0.5	122	29.6	29.6	7.8	7.8	18.4	18.4	79.3																	

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

Water Quality Monitoring

Water Quality Monitoring Results at IM12 during Mid-Ebb Tide

Date	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 (mg/L)		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	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
4-Aug-16	Cloudy	Moderate	14:01	9.5	Surface	1.0	0.8	117	26.1	26.1	7.7	7.7	22.3	22.3	82.9	82.9	5.9	5.7	3.5	10.4	4	4	80	85	821157	811505	<0.2	<0.2	2.4	2.3
						1.0	0.9	119	26.1	26.1	7.7	7.7	22.3	22.3	82.9	82.9	5.9	5.7	3.5	10.4	3	4	82	85	82	85	<0.2	<0.2	2.8	2.1
					Middle	4.8	0.7	106	25.2	25.2	7.7	7.7	24.4	24.4	76.1	76.1	5.4	5.1	7.6	10.4	3	4	86	85	86	85	<0.2	<0.2	2.1	2.1
						4.8	0.7	115	25.2	25.2	7.7	7.7	24.4	24.4	76.1	76.1	5.4	5.1	7.6	10.4	4	4	85	85	85	85	<0.2	<0.2	2.1	2.1
					Bottom	8.5	0.6	97	24.4	24.4	7.7	7.7	26.6	26.6	70.8	70.8	5.1	5.1	20.1	10.4	5	4	90	85	90	85	<0.2	<0.2	2.3	2.3
						8.5	0.6	97	24.4	24.4	7.7	7.7	26.6	26.6	70.8	70.8	5.1	5.1	20.1	10.4	6	4	89	85	89	85	<0.2	<0.2	2.2	2.2
6-Aug-16	Sunny	Moderate	14:38	9.3	Surface	1.0	0.7	120	27.6	27.6	7.6	7.6	19.5	19.5	75.4	75.4	5.3	5.1	2.7	6.8	4	4	86	90	821174	811505	<0.2	<0.2	3.9	3.6
						1.0	0.7	129	27.6	27.6	7.6	7.6	19.5	19.5	75.3	75.4	5.3	5.1	2.7	6.8	3	4	87	90	87	90	<0.2	<0.2	4.1	3.7
					Middle	4.7	0.7	84	26.5	26.5	7.6	7.6	21.7	21.8	69.0	69.0	4.9	4.7	5.2	6.8	5	4	90	90	90	90	<0.2	<0.2	3.3	3.3
						4.7	0.7	84	26.5	26.5	7.6	7.6	21.8	21.8	69.0	69.0	4.9	4.7	5.3	6.8	3	4	90	90	90	90	<0.2	<0.2	3.3	3.3
					Bottom	8.3	0.6	94	25.7	25.7	7.6	7.6	24.0	24.0	66.0	66.1	4.7	4.7	12.4	6.8	5	4	92	90	92	90	<0.2	<0.2	3.4	3.4
						8.3	0.6	96	25.7	25.7	7.6	7.6	24.0	24.0	66.1	66.1	4.7	4.7	12.6	6.8	3	4	94	90	94	90	<0.2	<0.2	3.4	3.4
9-Aug-16	Cloudy	Moderate	16:25	9.2	Surface	1.0	0.5	117	27.8	27.8	7.8	7.8	17.5	17.5	89.2	89.2	6.4	5.9	1.9	3.2	<2	2	85	89	821149	811501	<0.2	<0.2	3.0	2.9
						1.0	0.5	123	27.8	27.8	7.8	7.8	17.5	17.5	89.2	89.2	6.4	5.9	1.9	3.2	<2	2	86	89	86	89	<0.2	<0.2	3.0	2.8
					Middle	4.6	0.5	103	27.0	27.0	7.7	7.7	20.8	20.9	76.5	76.4	5.4	5.4	2.7	3.2	<2	2	89	89	89	89	<0.2	<0.2	2.6	2.6
						4.6	0.5	111	27.0	27.0	7.7	7.7	20.9	20.9	76.3	76.4	5.4	5.4	2.8	3.2	<2	2	91	89	91	89	<0.2	<0.2	2.6	2.6
					Bottom	8.2	0.3	120	25.9	25.9	7.7	7.7	25.2	25.2	73.9	74.0	5.2	5.2	4.9	3.2	2	2	92	89	92	89	<0.2	<0.2	2.9	2.9
						8.2	0.3	123	25.9	25.9	7.7	7.7	25.2	25.2	74.1	74.0	5.2	5.2	4.9	3.2	4	2	93	89	93	89	<0.2	<0.2	3.0	3.0
11-Aug-16	Fine	Moderate	18:29	7.9	Surface	1.0	0.2	117	26.3	26.3	7.8	7.8	22.2	22.3	83.6	83.4	6.0	5.4	0.6	2.6	<2	2	85	89	821148	811515	<0.2	<0.2	3.0	2.9
						1.0	0.2	123	26.2	26.2	7.8	7.8	22.3	22.3	83.1	83.4	5.9	5.4	0.6	2.6	<2	2	85	89	85	89	<0.2	<0.2	3.0	2.8
					Middle	4.0	0.2	131	25.4	25.4	7.8	7.8	25.3	25.3	67.5	67.4	4.8	3.7	1.1	2.6	2	2	89	89	89	89	<0.2	<0.2	2.6	2.6
						4.0	0.2	132	25.4	25.4	7.8	7.8	25.2	25.3	67.2	67.4	4.8	3.7	1.2	2.6	3	2	90	89	90	89	<0.2	<0.2	2.6	2.6
					Bottom	6.9	0.2	118	24.4	24.4	7.7	7.7	29.5	29.5	52.7	52.7	3.7	3.7	5.9	2.6	3	2	92	89	92	89	<0.2	<0.2	2.9	2.9
						6.9	0.2	129	24.4	24.4	7.7	7.7	29.5	29.5	52.7	52.7	3.7	3.7	5.9	2.6	2	2	92	89	92	89	<0.2	<0.2	3.0	3.0
13-Aug-16	Fine	Moderate	09:21	7.6	Surface	1.0	0.4	119	26.6	26.6	7.8	7.8	18.0	18.1	83.1	83.0	6.0	5.2	1.2	3.2	<2	<2	80	86	821171	811508	<0.2	<0.2	3.5	3.3
						1.0	0.4	122	26.6	26.6	7.8	7.8	18.1	18.1	82.9	83.0	6.0	5.2	1.2	3.2	<2	<2	83	86	83	86	<0.2	<0.2	3.4	3.4
					Middle	3.8	0.4	97	25.3	25.3	7.8	7.8	24.7	24.8	62.3	62.2	4.4	3.4	1.3	3.2	<2	<2	85	86	85	86	<0.2	<0.2	3.8	3.8
						3.8	0.5	100	25.3	25.3	7.8	7.8	24.8	24.8	62.0	62.2	4.4	3.4	1.4	3.2	<2	<2	88	86	88	86	<0.2	<0.2	3.2	3.2
					Bottom	6.6	0.3	88	23.7	23.7	7.7	7.7	29.6	29.6	46.8	47.8	3.3	3.4	7.0	3.2	<2	<2	90	86	90	86	<0.2	<0.2	3.4	3.4
						6.6	0.3	90	23.7	23.7	7.7	7.7	29.6	29.6	48.8	47.8	3.5	3.4	6.9	3.2	<2	<2	90	86	90	86	<0.2	<0.2	2.6	2.6
16-Aug-16	Cloudy	Moderate	11:48	8.6	Surface	1.0	0.8	116	25.3	25.3	8.0	8.0	21.8	21.8	75.7	75.7	5.5	5.1	2.5	5.1	<2	<2	86	90	821173	811503	<0.2	<0.2	2.3	2.6
						1.0	0.8	116	25.3	25.3	8.0	8.0	21.8	21.8	75.7	75.7	5.5	5.1	2.5	5.1	<2	<2	86	90	86	90	<0.2	<0.2	2.3	2.3
					Middle	4.3	0.8	101	24.5	24.5	7.9	7.9	25.2	25.2	64.1	64.1	4.6	4.9	6.1	5.1	<2	<2	89	90	89	90	<0.2	<0.2	3.0	3.0
						4.3	0.8	107	24.5	24.5	7.9	7.9	25.2	25.2	64.0	64.1	4.6	4.9	6.3	5.1	<2	<2	91	90	91	90	<0.2	<0.2	2.5	2.5
					Bottom	7.6	0.7	91	24.3	24.3	7.9	7.9	26.0	26.0	68.1	68.3	4.9	4.9	6.7	5.1	<2	<2	93	90	93	90	<0.2	<0.2	2.4	2.4
						7.6	0.7	94	24.3	24.3	7.9	7.9	26.0	26.0	68.4	68.3	4.9	4.9	6.5	5.1	<2	<2	94	90	94	90	<0.2	<0.2	2.8	2.8
20-Aug-16	Fine	Moderate	13:34	9.7	Surface	1.0	0.9	127	26.2	26.3	7.8	7.8	22.9	22.9	75.6	75.6	5.4	5.4	3.4	7.1	<2	<2	82	89	821175	811526	<0.2	<0.2	2.9	2.9
						1.0	1.0	135	26.3	26.3	7.8	7.8	22.9	22.9	75.6	75.6	5.4	5.4	3.4	7.1	<2	<2	83	89	83	89	<0.2	<0.2	3.1	3.1
					Middle	4.9	0.9	111	25.9	25.9	7.8	7.8	24.7	24.7	74.4	74.4	5.3	5.4	6.6	7.1	4	5	92	89	92	89	<0.2	<0.2	3.1	3.1
						4.9	0.9	111	25.9	25.9	7.8	7.8	24.7	24.7	74.4	74.4	5.3	5.4	6.6	7.1	5	5	90	89	90	89	<0.2	<0.2	3.1	3.1
					Bottom	8.7	0.7	92	25.7	25.7	7.9	7.9	26.0	26.0	77.0	77.0	5.4	5.4	11.4	7.1	7	5	94	89	94	89	<0.2	<0.2	3.0	3.0
						8.7	0.7	92	25.7	25.7	7.9	7.9	26.0	26.0	77.0	77.0	5.4	5.4	11.4	7.1	7	5	93	89	93	89	<0.2	<0.2	2.4	2.4
23-Aug-16	Sunny	Moderate	15:42	9.2	Surface	1.0	0.8	110	27.5	27.5	7.9	7.9	18.8	18.8	79.1	79.1	5.6	5.5	6.8	10.1	3	4	85	89	821163	811520	<0.2	<0.2	2.6	2.2
						1.0	0.9	119	27.5	27.5	7.9	7.9	18.8	18.8	79.1	79.1	5.6	5.5	6.8	10.1	4	4	83	89	83	89	<0.2	<0.2	2.5	2.5
					Middle	4.6	0.7	81	27.1	27.1	7.9	7.9	20.2	20.2	75.4	75.3	5.4	5.4	9.9	10.1	4	4	90	89	90	89	<0.2	<0.2	1.8	1.8
						4.6	0.7	87	27.0	27.0	7.9	7.9	20.2	20.2	75.2	75.3	5.4	5.4	10.2	10.1	3	4	91	89	91	89	<0.2	<0.2	2.0	2.0
					Bottom	8.2	0.6	85	26.5	26.5	7.9	7.9	23.9	23.9	74.5	74.5	5.2	5.2												

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

Water Quality Monitoring

Water Quality Monitoring Results at SR2 during Mid-Ebb Tide

Date	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 (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)								
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA										
4-Aug-16	Cloudy	Moderate	13:20	5.5	Surface	1.0	0.3	205	25.4	25.4	7.7	7.7	24.3	24.3	74.4	74.4	5.3	5.3	6.3	6.3	11.0	10	821454	814153								
						1.0	0.3	223	25.4	25.4	7.7	7.7	24.3	24.3	74.4	74.4	5.3	5.3	6.3	6.3												
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	4.5	0.3	157	24.8	24.8	7.7	7.7	25.9	25.9	68.9	68.9	68.9	68.9	4.9	4.9					15.8	15.8	15	15	-	-	-	-
						4.5	0.3	167	24.8	24.8	7.7	7.7	25.9	25.9	68.9	68.9	68.9	68.9	4.9	4.9					15.8	15.8	15	15	-	-	-	-
6-Aug-16	Sunny	Moderate	15:14	4.5	Surface	1.0	0.6	75	28.2	28.2	7.6	7.6	19.6	19.6	77.8	77.8	5.4	5.4	1.7	1.7	6.1	4	821478	814149								
						1.0	0.6	82	28.2	28.2	7.6	7.6	19.6	19.6	77.8	77.8	5.4	5.4	1.7	1.7												
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	3.5	0.3	69	26.1	26.1	7.6	7.6	23.0	23.1	68.2	68.2	68.2	68.2	4.8	4.8					10.4	10.4	4	4	-	-	-	-
						3.5	0.3	71	26.1	26.1	7.6	7.6	23.1	23.1	68.2	68.2	68.2	68.2	4.8	4.8					10.4	10.4	4	4	-	-	-	-
9-Aug-16	Cloudy	Moderate	16:58	4.6	Surface	1.0	0.5	93	27.9	27.9	7.9	7.9	16.3	16.3	93.7	93.5	6.7	6.7	5.5	5.7	8.1	3	821469	814182								
						1.0	0.5	100	27.8	27.8	7.9	7.9	16.3	16.3	93.3	93.5	6.7	6.7	5.5	5.7												
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	3.6	0.3	96	27.4	27.4	7.8	7.8	19.6	19.6	90.5	90.5	90.5	90.5	6.4	6.4					10.5	10.5	4	3	-	-	-	-
						3.6	0.3	102	27.4	27.4	7.8	7.8	19.6	19.6	90.5	90.5	90.5	90.5	6.4	6.4					10.5	10.5	4	3	-	-	-	-
11-Aug-16	Fine	Moderate	19:02	4.1	Surface	1.0	0.2	121	26.3	26.3	7.8	7.8	22.6	22.6	85.8	85.6	6.1	6.1	0.5	0.5	0.6	<2	821456	814167								
						1.0	0.2	132	26.3	26.3	7.8	7.8	22.6	22.6	85.4	85.6	6.1	6.1	0.5	0.5												
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	3.1	0.2	82	25.2	25.2	7.8	7.8	26.4	26.4	73.1	73.2	73.2	73.2	5.2	5.2					0.7	0.7	4	3	-	-	-	-
						3.1	0.2	88	25.2	25.2	7.8	7.8	26.4	26.4	73.2	73.2	73.2	73.2	5.2	5.2					0.7	0.7	4	3	-	-	-	-
13-Aug-16	Fine	Moderate	08:40	4.6	Surface	1.0	0.2	77	26.5	26.5	7.8	7.8	17.5	17.5	88.0	87.8	6.4	6.4	0.9	0.9	0.8	<2	821481	814165								
						1.0	0.3	78	26.5	26.5	7.8	7.8	17.5	17.5	87.5	87.8	6.4	6.4	0.9	0.9												
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	3.6	0.3	89	25.2	25.2	7.8	7.8	25.8	25.7	68.5	68.8	68.7	68.7	4.9	4.9					0.6	0.6	4	3	-	-	-	-
						3.6	0.3	96	25.2	25.2	7.8	7.8	25.5	25.7	68.8	68.8	68.7	68.7	4.9	4.9					0.6	0.6	4	3	-	-	-	-
16-Aug-16	Rainy	Moderate	11:15	4.0	Surface	1.0	0.5	85	25.1	25.1	8.0	8.0	22.6	22.6	75.5	75.5	5.5	5.5	3.3	3.3	4.0	3	821450	814173								
						1.0	0.6	92	25.1	25.1	8.0	8.0	22.6	22.6	75.5	75.5	5.5	5.5	3.3	3.3												
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	3.0	0.2	68	24.6	24.6	7.9	7.9	25.3	25.3	74.6	74.6	74.6	74.6	5.4	5.4					4.7	4.7	2	4	-	-	-	-
						3.0	0.3	71	24.6	24.6	7.9	7.9	25.3	25.3	74.6	74.6	74.6	74.6	5.4	5.4					4.7	4.7	2	4	-	-	-	-
20-Aug-16	Fine	Moderate	13:53	5.3	Surface	1.0	0.5	131	26.6	26.7	7.8	7.8	23.5	23.5	77.6	77.6	5.5	5.5	7.7	7.7	16.2	13	821450	814181								
						1.0	0.6	136	26.7	26.7	7.8	7.8	23.4	23.5	77.6	77.6	5.5	5.5	7.8	7.8												
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	4.3	0.5	144	25.7	25.7	7.8	7.8	25.7	25.7	78.0	78.1	78.1	78.1	5.5	5.5					24.5	24.5	19	19	-	-	-	-
						4.3	0.5	151	25.7	25.7	7.8	7.8	25.7	25.7	78.1	78.1	78.1	78.1	5.5	5.5					24.6	24.6	19	19	-	-	-	-
23-Aug-16	Fine	Moderate	16:01	4.8	Surface	1.0	0.6	93	27.6	27.6	7.8	7.8	19.4	19.4	78.2	78.2	5.5	5.5	5.3	5.3	9.7	5	821479	814165								
						1.0	0.6	101	27.6	27.6	7.8	7.8	19.4	19.4	78.2	78.2	5.5	5.5	5.3	5.3												
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	3.8	0.6	95	26.3	26.3	7.8	7.8	24.0	24.0	73.5	73.5	73.5	73.5	5.2	5.2					14.1	14.1	6	7	-	-	-	-
						3.8	0.6	102	26.3	26.3	7.8	7.8	24.0	24.0	73.5	73.5	73.5	73.5	5.2	5.2					14.1	14.1	6	7	-	-	-	-
25-Aug-16	Fine	Moderate	18:00	4.4	Surface	1.0	0.4	92	29.6	29.6	7.9	7.9	20.1	20.2	90.3	90.2	6.2	6.2	4.2	4.3	5.5	4	821472	814176								
						1.0	0.4	97	29.6	29.6	7.9	7.9	20.2	20.2	90.1	90.2	6.1	6.1	4.3	4.3												
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	3.4	0.3	131	29.3	29.3	7.9	7.9	21.2	21.2	86.6	86.6	86.6	86.6	5.9	5.9					6.6	6.7	4	3	-	-	-	-
						3.4	0.3	134	29.3	29.3	7.9	7.9	21.2	21.2	86.6	86.6	86.6	86.6	5.9	5.9					6.7	6.7	4	3	-	-	-	-
27-Aug-16	Fine	Moderate	08:21	4.9	Surface	1.0	0.3	76	29.2	29.2	8.0	8.0	18.6	18.6	87.8	87.7	6.1	6.1	3.9	3.9	8.4	3	821475	814182								
						1.0	0.3	76	29.2	29.2	8.0	8.0	18.6	18.6	87.6	87.7	6.1	6.1	3.9	3.9												
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-
					Bottom	3.9	0.2	77	28.0	28.0	7.8	7.8	25.5	25.5	59.5	59.5	59.5	59.5	4.0	4.0					12.8	13.0	3	4	-	-	-	-
						3.9	0.2	81	28.0	28.0	7.8	7.8	25.5	25.5	59.5	59.5	59.5	59.5	4.0	4.0					13.0	13.0	3	4	-	-	-	-
30-Aug-16	Fine	Moderate	11:34	4.8	Surface	1.0	0.8	92	25.7	25.7	8.0	8.0	26.7	26.7	72.6	72.6	5.1	5.1	6.4	6.4	9.5	8	821453	814181								
						1.0	0.8	97	25.7	25.7	8.0	8.0	26.7	26.7																		

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results at SR3 during Mid-Ebb Tide

Date	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 (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
4-Aug-16	Cloudy	Moderate	14:55	9.1	Surface	1.0	0.8	180	26.0	26.0	7.7	7.7	21.3	21.3	78.2	78.2	5.6	5.5	5.4	9.3	4	6	822146	807562
						1.0	0.8	192	26.0	7.7	7.7	21.3	21.3	78.2	78.2	5.6	5.5	5.4						
					Middle	4.6	0.8	174	25.3	7.7	7.7	23.5	23.5	73.0	73.0	5.3	5.1	9.1	9.3	6				
						4.6	0.8	181	25.3	7.7	7.7	23.5	23.5	73.0	73.0	5.3	5.1	9.1						
					Bottom	8.1	0.3	246	24.9	7.7	7.7	24.8	24.8	71.5	71.5	5.1	5.1	13.3	5.1	7				
						8.1	0.3	247	24.9	7.7	7.7	24.8	24.8	71.5	71.5	5.1	5.1	13.3						
6-Aug-16	Sunny	Moderate	14:00	9.3	Surface	1.0	0.3	182	26.4	26.4	7.5	7.5	21.5	21.5	67.8	67.8	4.8	4.7	3.2	7.4	3	10	822130	807558
						1.0	0.3	184	26.4	7.5	7.5	21.5	21.5	67.8	67.8	4.8	4.7	3.2						
					Middle	4.7	0.3	198	25.7	7.6	7.6	25.0	25.0	64.0	64.0	4.5	4.6	7.9	7.4	9				
						4.7	0.3	200	25.7	7.6	7.6	25.0	25.0	64.0	64.0	4.5	4.6	7.9						
					Bottom	8.3	0.3	207	25.0	7.6	7.6	26.6	26.6	64.2	64.2	4.6	4.6	11.0	4.6	16				
						8.3	0.3	224	25.0	7.6	7.6	26.6	26.6	64.3	64.3	4.6	4.6	10.9						
9-Aug-16	Cloudy	Moderate	15:46	9.2	Surface	1.0	0.4	168	27.9	27.9	7.8	7.8	17.3	17.3	88.4	88.3	6.3	5.6	1.6	5.5	<2	4	822157	807573
						1.0	0.5	175	27.9	7.8	7.8	17.3	17.3	88.2	88.3	6.3	5.6	1.6						
					Middle	4.6	0.4	157	26.8	7.6	7.6	21.2	21.2	67.8	67.8	4.8	4.8	2.7	5.5	3				
						4.6	0.4	169	26.8	7.6	7.6	21.2	21.2	67.8	67.8	4.8	4.8	2.7						
					Bottom	8.2	0.4	155	25.2	7.6	7.6	26.7	26.7	60.6	60.6	4.3	4.3	12.1	4.3	4				
						8.2	0.4	159	25.2	7.6	7.6	26.7	26.7	60.6	60.6	4.3	4.3	12.1						
11-Aug-16	Fine	Moderate	17:38	8.1	Surface	1.0	0.3	188	26.3	26.3	7.7	7.7	22.0	22.0	73.0	72.8	5.2	4.8	0.8	3.1	3	3	822162	807554
						1.0	0.3	202	26.3	7.7	7.7	22.0	22.0	72.6	72.8	5.2	4.8	0.8						
					Middle	4.1	0.3	194	25.8	7.7	7.7	24.7	24.7	61.3	61.2	4.3	4.8	1.1	5.5	2				
						4.1	0.3	210	25.8	7.7	7.7	24.7	24.7	61.0	61.2	4.3	4.8	1.2						
					Bottom	7.1	0.2	167	23.5	7.6	7.6	30.7	30.7	42.3	42.7	3.0	3.1	7.2	3.1	3				
						7.1	0.3	176	23.5	7.6	7.6	30.7	30.7	43.1	42.7	3.1	3.1	7.2						
13-Aug-16	Fine	Moderate	10:15	7.6	Surface	1.0	0.4	182	24.5	24.5	7.8	7.8	18.6	18.6	58.1	58.2	6.1	5.1	1.0	1.0	<2	2	822161	807552
						1.0	0.5	191	24.5	7.8	7.8	18.6	18.6	58.2	58.2	6.1	5.1	1.0						
					Middle	3.8	0.2	180	24.5	7.8	7.8	22.6	23.1	58.4	58.5	4.1	5.1	1.0	1.0	<2				
						3.8	0.2	197	24.5	7.8	7.8	23.5	23.1	58.6	58.5	4.1	5.1	1.0						
					Bottom	6.6	0.2	194	24.5	7.8	7.8	28.4	28.4	64.0	64.2	3.5	3.6	1.1	3.6	2				
						6.6	0.2	195	24.5	7.8	7.8	28.4	28.4	64.4	64.2	3.6	3.6	1.1						
16-Aug-16	Cloudy	Moderate	12:34	8.8	Surface	1.0	0.8	187	25.5	25.5	7.9	7.9	22.2	22.2	70.6	70.6	5.1	4.4	2.8	7.7	2	4	822158	807562
						1.0	0.8	201	25.5	7.9	7.9	22.2	22.2	70.6	70.6	5.1	4.4	2.8						
					Middle	4.4	0.7	185	24.2	7.9	7.9	27.0	27.0	52.0	52.0	3.7	3.8	8.6	5.5	2				
						4.4	0.7	200	24.2	7.9	7.9	27.0	27.0	52.0	52.0	3.7	3.8	8.7						
					Bottom	7.8	0.3	229	23.9	7.9	7.9	28.1	28.1	53.2	53.2	3.8	3.8	11.7	3.8	7				
						7.8	0.3	232	23.9	7.9	7.9	28.1	28.1	53.2	53.2	3.8	3.8	11.7						
20-Aug-16	Fine	Moderate	12:57	9.7	Surface	1.0	0.3	201	26.1	26.1	7.7	7.7	23.3	23.3	73.0	73.0	5.2	5.3	7.8	11.5	3	6	822140	807556
						1.0	0.4	220	26.1	7.7	7.7	23.3	23.3	73.0	73.0	5.2	5.3	8.0						
					Middle	4.9	0.4	206	25.5	7.7	7.7	25.7	25.7	74.4	74.5	5.3	5.3	12.6	5.3	5				
						4.9	0.4	213	25.5	7.7	7.7	25.7	25.7	74.5	74.5	5.3	5.3	12.7						
					Bottom	8.7	0.2	166	25.5	7.8	7.8	27.6	27.6	76.0	76.0	5.3	5.3	13.8	5.3	10				
						8.7	0.3	180	25.5	7.8	7.8	27.6	27.6	76.0	76.0	5.3	5.3	13.8						
23-Aug-16	Sunny	Moderate	15:09	9.4	Surface	1.0	0.3	173	27.1	27.1	7.7	7.7	18.6	18.6	73.7	73.7	5.3	5.2	4.1	9.1	3	5	822156	807587
						1.0	0.4	180	27.1	7.7	7.7	18.6	18.6	73.6	73.7	5.3	5.2	4.2						
					Middle	4.7	0.4	186	26.4	7.8	7.8	22.5	22.5	71.6	71.7	5.1	5.1	10.9	5.1	5				
						4.7	0.4	201	26.4	7.8	7.8	22.5	22.5	71.7	71.7	5.1	5.1	11.0						
					Bottom	8.4	0.3	128	26.3	7.8	7.8	23.1	23.1	74.5	74.5	5.3	5.3	12.2	5.3	8				
						8.4	0.3	134	26.3	7.8	7.8	23.1	23.1	74.5	74.5	5.3	5.3	12.2						
25-Aug-16	Fine	Moderate	16:55	8.8	Surface	1.0	0.4	115	29.5	29.5	7.8	7.8	17.9	18.0	76.8	76.8	5.3	5.0	3.2	8.1	3	4	822155	807558
						1.0	0.4	117	29.5	7.8	7.8	18.0	18.0	76.8	76.8	5.3	5.0	3.2						
					Middle	4.4	0.6	74	28.7	7.8	7.8	20.7	20.7	68.0	67.9	4.7	4.7	6.2	5.0	3				
						4.4	0.6	74	28.7	7.8	7.8	20.7	20.7	67.8	67.9	4.7	4.7	6.3						
					Bottom	7.8	0.4	102	27.6	7.9	7.9	26.2	26.2	61.1	61.1	4.2	4.2	14.7	4.2	5				
						7.8	0.4	109	27.6	7.9	7.9	26.2	26.2	61.1	61.1	4.2	4.2	14.7						
27-Aug-16	Fine	Moderate	09:32	8.8	Surface	1.0	0.8	179	29.4	29.4	7.9	7.9	17.3	17.4	77.4	77.3	5.4	4.5	3.5	7.5	<2	4	822138	807564
						1.0	0.8	193	29.4	7.9	7.9	17.4	17.4	77.2	77.3	5.4	4.5	3.5						
					Middle	4.4	0.5	184	27.6	7.9	7.9	26.4	26.4	53.1	53.2	3.6	3.6	8.5	4.5	4				
						4.4	0.6	184	27.6	7.9	7.9	26.4	26.4	53.2	53.2	3.6	3.6	8.5						
					Bottom	7.8	0.3	193	27.4	7.9	7.9	27.2	27.2	53.6	53.6	3.6	3.6	10.5	3.6	5				
						7.8	0.3	204	27.4	7.9	7.9	27.2	27.2	53.6	53.6	3.6	3.6	10.4						
30-Aug-16	Fine	Moderate	12:46	8.9	Surface	1.0	0.8	179	26.2	26.2	8.1	8.1	26.4	26.4	78.0	78.0	5.4	5.3	4.5	11.4	6	7	822163	807567
						1.0	0.8	190	26.2	8.1	8.1	26.4	26.4	77.9	78.0	5.4	5.3	4.5						
					Middle	4.5	0.7	173	25.5	8.0	8.0	27.5	27.5	72.4	72.4	5.1	5.1	7.2	5.3	7				
						4.5	0.7	189	25.5	8.0	8.0	27.5	27.5	72.4	72.4	5.1	5.1	7.2						
					Bottom	7.9	0.5	194	25.3	8.0	8.0	28.3	28.3	75.5	75.5	5.3	5.3	22.6	5.3	9				
						7.9	0.5	194	25.3	8.0	8.0	28.3	28.3	75.5	75.5	5.3	5.3	22.6						

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 at SR4A during Mid-Ebb Tide

Date	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 (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
4-Aug-16	Cloudy	Calm	13:17	9.8	Surface	1.0	0.3	130	26.0	26.0	7.7	7.7	26.7	26.7	68.5	68.6	4.8	4.6	9.8	25.9	11	32	817192	807827
						1.0	0.3	139	26.0	7.7	7.7	26.7	26.7	68.7	68.6	4.8	4.6	9.9	25.9	11				
						4.9	0.4	91	25.0	7.7	7.7	29.5	29.5	60.9	61.0	4.3	4.3	27.1	25.9	33				
					4.9	0.4	98	25.0	7.7	7.7	29.5	29.5	61.0	61.0	4.3	4.3	27.4	25.9	34					
					Bottom	8.8	0.3	89	24.9	7.7	7.7	29.7	29.7	61.8	62.0	4.3	4.3	40.4	25.9	51				
						8.8	0.4	94	24.9	7.7	7.7	29.7	29.7	62.1	62.0	4.3	4.3	40.7	25.9	52				
1.0	0.6	265	27.0	7.7		7.7	26.0	26.0	65.2	65.3	4.5	4.2	9.3	19.5	13									
6-Aug-16	Sunny	Moderate	15:12	9.1	Surface	1.0	0.6	280	27.1	27.1	7.7	7.7	25.9	26.0	65.4	65.3	4.5	4.2	9.3	19.5	14	32	817201	807796
						4.6	0.6	165	25.3	7.7	7.7	29.5	29.5	54.9	55.0	3.8	4.2	15.0	19.5	24				
						4.6	0.6	168	25.3	7.7	7.7	29.5	29.5	55.0	55.0	3.8	4.2	15.7	19.5	25				
					Bottom	8.1	0.6	99	25.2	7.7	7.7	29.8	29.8	56.7	56.7	3.9	3.9	33.8	19.5	57				
						8.1	0.6	107	25.2	7.7	7.7	29.8	29.8	56.7	56.7	3.9	3.9	33.9	19.5	58				
						1.0	0.5	192	28.8	7.9	7.9	20.2	20.3	88.0	87.8	6.1	5.4	6.6	12.5	6				
9-Aug-16	Cloudy	Moderate	16:42	8.4	Surface	1.0	0.5	197	28.4	28.6	7.9	7.9	20.4	20.3	87.6	87.8	6.1	5.4	6.9	12.5	8	13	817173	807823
						4.2	0.4	178	27.4	7.8	7.8	24.2	24.3	68.0	68.0	4.7	5.4	10.4	12.5	10				
						4.2	0.5	194	27.0	7.8	7.8	24.3	24.3	67.9	68.0	4.7	5.4	10.7	12.5	10				
					Bottom	7.4	0.3	178	24.8	7.8	7.8	31.1	31.1	54.0	54.4	3.8	3.8	20.0	12.5	22				
						7.4	0.3	185	24.8	7.8	7.8	31.0	31.1	54.8	54.4	3.8	3.8	20.4	12.5	24				
						1.0	0.3	160	27.5	7.8	7.8	21.0	21.0	80.5	80.5	5.7	4.7	4.0	8.4	4				
11-Aug-16	Fine	Moderate	18:46	7.7	Surface	1.0	0.3	175	27.5	27.5	7.8	7.8	21.0	21.0	80.4	80.5	5.7	4.7	4.2	8.4	5	10	817200	807791
						3.9	0.3	119	25.7	7.8	7.8	28.2	28.3	51.4	51.4	3.6	4.7	6.7	8.4	5				
						3.9	0.3	122	25.7	7.8	7.8	28.3	28.3	51.4	51.4	3.6	4.7	7.0	8.4	6				
					Bottom	6.7	0.3	143	25.1	7.7	7.7	30.3	30.3	45.8	45.9	3.2	3.2	14.1	8.4	19				
						6.7	0.3	143	25.1	7.7	7.7	30.3	30.3	45.9	45.9	3.2	3.2	14.1	8.4	18				
						1.0	0.3	204	27.4	7.8	7.8	20.6	20.7	67.2	67.2	4.7	3.8	3.4	5.9	<2				
13-Aug-16	Sunny	Moderate	08:36	8.8	Surface	1.0	0.4	223	27.3	27.4	7.8	7.8	20.7	20.7	67.1	67.2	4.7	3.8	3.7	5.9	<2	3	817192	807810
						4.4	0.3	126	25.1	7.8	7.8	31.0	31.1	40.9	41.0	2.8	3.8	5.5	5.9	3				
						4.4	0.3	132	24.9	7.8	7.8	31.2	31.1	41.0	41.0	2.8	3.8	5.7	5.9	3				
					Bottom	7.8	0.3	102	25.0	7.7	7.7	31.4	31.5	41.1	41.2	2.8	2.9	8.4	5.9	3				
						7.8	0.3	106	24.9	7.7	7.7	31.5	31.5	41.3	41.2	2.9	2.9	8.5	5.9	4				
						1.0	0.3	173	26.1	7.8	7.8	26.6	26.6	58.7	58.6	4.1	3.8	6.8	11.9	9				
16-Aug-16	Rainy	Calm	11:07	9.5	Surface	1.0	0.3	177	26.1	26.1	7.8	7.8	26.6	26.6	58.4	58.6	4.1	3.8	7.0	11.9	9	16	817192	807794
						4.8	0.3	111	25.4	7.8	7.8	29.3	29.3	50.2	50.2	3.5	3.8	12.5	11.9	16				
						4.8	0.3	120	25.4	7.8	7.8	29.3	29.3	50.2	50.2	3.5	3.5	12.6	11.9	18				
					Bottom	8.5	0.2	142	25.4	7.8	7.8	29.8	29.9	51.0	51.1	3.5	3.5	16.1	11.9	21				
						8.5	0.3	142	25.3	7.8	7.8	29.9	29.9	51.1	51.1	3.5	3.5	16.3	11.9	23				
						1.0	0.3	108	28.0	7.8	7.8	26.0	26.2	75.8	76.1	5.1	5.1	11.5	15.1	18				
20-Aug-16	Sunny	Moderate	13:59	8.7	Surface	1.0	0.3	117	27.5	27.8	7.8	7.8	26.3	26.2	76.4	76.1	5.2	5.1	11.6	15.1	17	21	817197	807826
						4.4	0.4	91	26.9	7.8	7.8	27.6	27.5	74.5	74.3	5.1	5.1	15.1	15.1	22				
						4.4	0.4	96	27.4	7.8	7.8	27.3	27.5	74.0	74.3	5.0	5.1	14.8	15.1	23				
					Bottom	7.7	0.3	116	27.3	7.8	7.8	27.6	27.8	75.3	75.6	5.1	5.2	18.9	15.1	22				
						7.7	0.3	116	26.8	7.8	7.8	27.9	27.8	75.9	75.6	5.2	5.2	18.8	15.1	21				
						1.0	0.3	135	29.5	7.8	7.8	22.7	22.7	82.8	82.8	5.6	5.2	7.8	22.0	11				
23-Aug-16	Cloudy	Calm	16:22	9.2	Surface	1.0	0.3	138	29.4	29.5	7.8	7.8	22.7	22.7	82.8	82.8	5.6	5.2	8.0	22.0	12	34	817173	807825
						4.6	0.4	99	27.5	7.8	7.8	27.2	27.1	71.8	71.6	4.9	5.2	24.3	22.0	37				
						4.6	0.4	99	27.9	7.8	7.8	26.9	27.1	71.3	71.3	4.8	4.9	24.3	22.0	41				
					Bottom	8.2	0.3	123	28.0	7.8	7.8	26.9	27.1	72.2	72.6	4.9	4.9	34.7	22.0	50				
						8.2	0.4	125	27.6	7.8	7.8	27.2	27.1	73.0	72.6	4.9	4.9	33.0	22.0	51				
						1.0	0.3	172	29.4	29.5	7.8	7.8	20.6	20.6	84.2	84.0	5.7	5.0	4.3	11.3	6			
25-Aug-16	Sunny	Moderate	18:13	8.8	Surface	1.0	0.3	178	29.5	29.5	7.8	7.8	20.5	20.6	83.7	84.0	5.7	5.0	4.2	11.3	7	16	817185	807828
						4.4	0.4	80	27.4	7.8	7.8	27.4	27.4	63.9	64.0	4.3	4.4	13.2	11.3	19				
						4.4	0.4	82	27.4	7.8	7.8	27.4	27.4	64.0	64.0	4.3	4.4	13.1	11.3	20				
					Bottom	7.8	0.3	105	27.4	7.8	7.8	27.6	27.6	64.9	64.9	4.4	4.4	16.4	11.3	22				
						7.8	0.4	105	27.4	7.8	7.8	27.6	27.6	64.9	64.9	4.4	4.4	16.6	11.3	21				
						1.0	0.3	136	28.8	28.8	7.9	7.9	22.3	22.4	81.8	81.7	5.6	4.9	3.3	5.9	7			
27-Aug-16	Cloudy	Calm	07:57	9.6	Surface	1.0	0.3	147	28.8	28.8	7.9	7.9	22.4	22.4	81.6	81.7	5.6	4.9	3.5	5.9	7	11	817203	807794
						4.8	0.3	114	27.1	7.8	7.8	29.3	29.3	60.8	60.8	4.1	4.9	5.4	5.9	10				
						4.8	0.3	124	27.1	7.8	7.8	29.3	29.3	60.8	60.8	4.1	4.9	5.6	5.9	12				
					Bottom	8.6	0.3	97	27.0	7.8	7.8	29.4	29.4	62.0	62.2	4.2	4.2	8.7	5.9	14				
						8.6	0.3	104	27.0	7.8	7.8	29.4	29.4	62.3	62.2	4.2	4.2	8.8	5.9	14				
						1.0	0.4	96	27.3	27.3	8.0	8.0	29.5	29.5	78.2	78.1	5.3	4.8	3.7	7.1	8			
30-Aug-16	Sunny	Calm	11:05	10.0	Surface	1.0	0.4	97	27.3	27.3	8.0	8.0	29.5	29.5	78.0	78.1	5.3	4.8	3.7	7.1	9	11	817192	807794
						5.0	0.3	107	27.0	7.9	7.9	29.9	29.9	63.7	63.7	4.3	4.8	8.6	7.1	10				
						5.0	0.4	115	27.0	7.9	7.9	29.9	29.9	63.7	63.7	4.3	4.8	8.5	7.1	11				
					Bottom	9.0	0.3	109	27.0	7.9	7.9	30.0	30.0	64.1	64.3	4.3	4.3	9.0	7.1	14				
						9.0	0.3	112	27.0	7.9	7.9	30.0	30.0	64.4	64.3	4.3	4.3	9.1	7.1	15				
						9.0	0.3	112	27.0	7.9	7.9	30.0	30.0	64.4	64.3	4.3	4.3	9.1	7.1	15				

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 at SR5A during Mid-Ebb Tide

Date	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 (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)										
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA												
4-Aug-16	Rainy	Calm	12:52	4.5	Surface	1.0	0.1	87	26.8	26.8	7.7	7.7	24.6	24.5	74.9	74.9	5.2	5.2	8.5	10.4	9	12	816606	810693										
						1.0	0.1	94	26.8	7.7	7.7	24.5	24.5	74.9	74.9	5.2	5.2	8.5	10.4	8														
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-				
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-				
					Bottom	3.5	0.1	95	26.5	26.5	7.7	7.7	25.0	25.0	74.7	74.9	5.2	5.2	12.3	10.4	15				10	816602	810694							
						3.5	0.1	100	26.5	7.7	7.7	25.1	24.2	69.4	69.7	4.8	4.8	11.9	11.5	14														
6-Aug-16	Sunny	Moderate	15:29	3.6	Surface	1.0	0.6	102	29.3	29.3	7.7	7.7	22.8	22.8	82.8	82.7	5.6	5.6	3.4	7.6	5	10	816602	810694										
						1.0	0.6	109	29.3	7.7	7.7	22.8	22.8	82.6	82.7	5.6	5.6	3.6	7.6	4														
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-		
						1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-		
					Bottom	2.6	0.5	112	27.7	27.8	7.6	7.6	24.2	24.2	69.9	69.7	4.8	4.8	11.9	11.5	14				8.9	816579	810712							
						2.6	0.5	118	27.8	7.6	7.6	24.2	22.2	69.9	69.7	4.8	4.8	11.5	10.4	11														
9-Aug-16	Cloudy	Moderate	17:00	4.2	Surface	1.0	0.2	170	29.6	29.6	8.3	8.3	21.2	21.2	150.5	150.2	10.2	10.2	7.3	8.9	10	816579	810712											
						1.0	0.2	186	29.6	8.2	8.3	21.2	21.2	149.8	150.2	10.2	10.2	7.4																
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-					-				-	-	-	-	-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-					-				-	-	-	-	-	-	
					Bottom	3.2	0.2	144	29.0	29.0	8.1	8.1	22.1	22.2	125.3	125.4	8.5	8.5	10.6					8.5	10	816595	810693							
						3.2	0.3	149	29.0	8.1	8.1	22.2	22.2	125.4	125.4	8.5	8.5	10.4																
11-Aug-16	Fine	Calm	19:05	5.0	Surface	1.0	0.1	217	28.2	28.3	7.9	7.9	20.4	20.4	86.9	86.9	6.1	6.1	3.5	4.5	5	816595	810693											
						1.0	0.1	223	28.3	7.9	7.9	20.4	20.4	86.8	86.9	6.0	6.0	3.4																
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-	-	-
					Bottom	4.0	0.2	223	26.6	26.5	7.7	7.7	25.6	25.9	53.1	52.7	3.7	3.7	5.6					3.7	6	816596	810692							
						4.0	0.2	245	26.4	7.7	7.7	26.1	25.3	52.3	51.5	3.6	3.6	5.6																
13-Aug-16	Fine	Calm	08:11	4.4	Surface	1.0	0.1	156	28.3	28.3	7.8	7.8	17.2	17.2	83.8	83.8	5.9	5.9	3.0	5.8	2	816596	810692											
						1.0	0.1	166	28.3	7.8	7.8	17.2	17.2	83.7	83.8	5.9	5.9	2.8																
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-	-	-
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-	-	
					Bottom	3.4	0.2	162	26.8	26.8	7.7	7.7	25.2	25.3	51.5	51.5	3.6	3.6	8.6					3.6	2	816610	810689							
						3.4	0.2	170	26.8	7.7	7.7	25.3	25.3	51.5	51.5	3.6	3.6	8.7																
16-Aug-16	Rainy	Calm	10:51	4.9	Surface	1.0	0.2	131	27.1	27.1	7.8	7.8	24.0	24.0	70.3	70.2	4.9	4.9	7.4	6.9	11	816610	810689											
						1.0	0.2	140	27.1	7.8	7.8	24.0	24.0	70.1	70.2	4.9	4.9	7.6																
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-	-	
					Bottom	3.9	0.2	172	26.6	26.6	7.7	7.7	25.6	25.6	59.7	59.9	4.1	4.2	6.4					4.2	10	816575	810687							
						3.9	0.2	172	26.6	7.7	7.7	25.5	25.6	60.1	59.9	4.2	4.2	6.3																
20-Aug-16	Sunny	Moderate	14:14	4.4	Surface	1.0	0.1	191	29.2	29.2	7.7	7.7	24.4	24.5	83.2	83.2	5.6	5.6	4.8	6.5	9	816592	810685											
						1.0	0.1	206	29.2	7.7	7.7	24.5	24.5	83.2	83.2	5.6	5.6	4.9																
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-		
					Bottom	3.4	0.2	173	27.7	28.0	7.7	7.7	25.0	24.9	79.5	79.3	5.4	5.4	8.2					5.4	10	816590	810677							
						3.4	0.2	185	28.3	7.7	7.7	24.7	24.9	79.0	79.3	5.4	5.4	8.0																
23-Aug-16	Cloudy	Calm	16:34	3.6	Surface	1.0	0.1	98	30.5	30.5	7.8	7.8	22.8	22.9	100.0	100.0	6.6	6.6	5.0	6.0	7	816590	810703											
						1.0	0.1	105	30.4	7.8	7.8	22.9	22.9	100.0	100.0	6.6	6.6	5.1																
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-	-	
						1.8	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-		
					Bottom	2.6	0.2	154	29.5	29.5	7.8	7.8	23.0	23.0	88.8	88.8	6.0	6.0	6.8					6.0	6	816580	810702							
						2.6	0.2	165	29.5	7.8	7.8	23.0	23.0	88.8	88.8	6.0	6.0	6.9																
25-Aug-16	Fine	Moderate	18:32	3.4	Surface	1.0	0.1	176	30.3	30.3	8.2	8.2	22.3	22.3	156.6	156.3	10.4	10.4	4.4	4.6	11	816580	810702											
						1.0	0.1	177	30.3	8.2	8.2	22.3	22.3	155.9	156.3	10.4	10.4	4.3																
					Middle	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-		
						1.7	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-			
					Bottom	2.4	0.2	166	30.1	30.1	8.1	8.1	22.6	22.6	133.0	132.7	8.9	8.9	4.7					4.4	9	816580	810702							
						2.4	0.2	176	30.0	8.1	8.1	22.6	22.6	132.4	132.7	8.8	8.8	4.8																
27-Aug-16	Sunny	Calm	07:36	4.3	Surface	1.0	0.1	184	29.6	29.6	8.2	8.2	19.3	19.3	132.8	132.9	9.1	9.1	2.7	5.0	11	816609	810703											
						1.0	0.1	187	29.6	8.2	8.2	19.3	19.3	132.9	132.9	9.1	9.1	2.8																
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-		
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-			
					Bottom	3.3	0.2	243	29.8	29.8	8.1	8.1	21.4	21.4	125.0	125.6	8.4	8.5	7.1					4.4	9	816580	810702							
						3.3	0.2	262	29.8	8.1	8.1	21.3	21.4	126.2	125.6	8.5	8.5	7.5																
30-Aug-16	Sunny	Calm	10:48	4.9	Surface	1.0	0.3	177	27.5	27.5	7.9	7.9	27.0	27.1	69.8	69.7	4.7	4.7	4.4	5.3	9	816580	810702											
						1.0	0.4	180	27.5	7.9	7.9	27.1	27.1	69.6	69.7	4.7	4.7	4.5																
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-	-		
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-									-	-	-	-			
					Bottom	3.9	0.3	213	27.3	27.3	7.8	7.8	28.2	28.2	65.2	65.5	4.4	4.4	6.2					4.4	9	816580	810702							
						3.9	0.3	228	27.3	7.8	7.8	28.2	28.2	65.7	65.5	4.4	4.4	6.0																

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 at SR6 during Mid-Ebb Tide

Date	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 (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA								
4-Aug-16	Rainy	Moderate	12:21	5.1	Surface	1.0	0.3	80	26.7	27.0	7.7	7.7	23.9	23.8	76.0	75.8	5.3	5.3	4.0	6.0	4	7	817883	814681						
						1.0	0.3	85	27.2		7.7		23.6		75.5		5.3		3.8		5									
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	4.1	0.2	80	26.9	26.9	7.7	7.7	24.6	24.6	71.5	71.5	5.0	5.0	8.0	5.0	8.0	5.0			8.0	5.0	9	7	-	-
						4.1	0.2	80	26.9		7.7		24.6		71.5		5.0		8.3		9									
6-Aug-16	Sunny	Moderate	15:52	3.9	Surface	1.0	0.1	186	30.1	30.2	7.7	7.7	21.8	21.8	88.3	88.4	5.9	5.9	2.1	2.0	6	6	817901	814654						
						1.0	0.2	192	30.2		7.7		21.8		88.5		5.9		1.9		6									
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	2.9	0.2	55	29.6	29.4	7.7	7.7	22.2	22.3	87.6	87.9	5.9	6.0	2.1	6.0	2.1	6.0			2.1	6.0	6	6	-	-
						2.9	0.2	56	29.1		7.7		22.4		88.2		6.0		2.0		6									
9-Aug-16	Cloudy	Moderate	17:23	4.1	Surface	1.0	0.4	147	29.7	29.8	8.3	8.3	20.9	20.8	151.6	151.1	10.3	10.3	6.7	10.0	8	9	817899	814650						
						1.0	0.5	158	29.8		8.3		20.7		150.6		10.2		7.1		8									
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.1	0.3	54	29.3	29.2	8.1	8.1	21.5	21.7	118.7	116.7	8.1	8.0	13.8	8.0	13.8	8.0			13.8	8.0	11	9	-	-
						3.1	0.3	57	29.1		8.0		21.9		114.6		7.8		12.4		10									
11-Aug-16	Fine	Calm	19:28	4.1	Surface	1.0	0.1	170	28.4	28.4	7.9	7.9	21.3	21.3	87.4	87.5	6.0	6.0	1.9	6.0	2	7	817885	814651						
						1.0	0.1	172	28.4		7.9		21.3		87.5		6.0		1.9		2									
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.1	0.1	213	27.1	27.1	7.7	7.7	25.3	25.3	60.7	61.1	4.2	4.2	10.3	4.2	10.3	4.2			10.3	4.2	11	7	-	-
						3.1	0.1	222	27.1		7.7		25.2		61.4		4.2		9.9		12									
13-Aug-16	Sunny	Calm	07:40	4.6	Surface	1.0	0.1	206	28.3	28.3	7.8	7.8	16.6	16.6	87.0	87.0	6.2	6.2	2.3	5.4	<2	5	817894	814649						
						1.0	0.1	214	28.3		7.8		16.6		87.0		6.2		2.5		<2									
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.6	0.1	199	26.8	26.7	7.6	7.6	26.9	27.0	44.1	44.8	3.0	3.1	8.4	3.1	8.4	3.1			8.4	3.1	9	5	-	-
						3.6	0.1	208	26.5		7.6		27.1		45.4		3.1		8.4		8									
16-Aug-16	Rainy	Calm	10:28	4.9	Surface	1.0	0.2	112	27.4	27.4	7.9	7.9	23.1	23.1	97.8	97.8	6.8	6.8	3.6	5.1	5	5	817918	814645						
						1.0	0.2	113	27.4		7.9		23.1		97.8		6.8		3.7		4									
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.9	0.2	109	27.1	27.1	7.7	7.7	24.6	24.6	65.9	65.9	4.6	4.6	6.6	4.6	6.6	4.6			6.6	4.6	6	5	-	-
						3.9	0.2	115	27.1		7.7		24.6		65.9		4.6		6.4		6									
20-Aug-16	Fine	Moderate	14:38	4.0	Surface	1.0	0.2	132	30.1	29.9	7.7	7.7	23.7	23.8	86.3	86.5	5.7	5.8	2.6	3.2	2	3	817892	814662						
						1.0	0.2	139	29.7		7.7		23.9		86.6		5.8		2.8		2									
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.0	0.2	110	27.8	27.7	7.7	7.7	25.1	25.2	85.3	85.6	5.8	5.9	3.6	5.9	3.6	5.9			3.6	5.9	3	3	-	-
						3.0	0.2	120	27.5		7.7		25.3		85.8		5.9		3.8		3									
23-Aug-16	Cloudy	Calm	17:06	4.3	Surface	1.0	0.2	86	30.2	30.2	7.8	7.8	21.7	21.7	92.8	92.9	6.2	6.2	3.6	5.0	7	6	817888	814663						
						1.0	0.2	91	30.1		7.8		21.7		93.0		6.2		3.8		6									
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.3	0.2	96	28.7	28.7	7.7	7.7	23.0	23.0	80.5	80.6	5.5	5.5	6.0	5.5	6.0	5.5			6.0	5.5	5	6	-	-
						3.3	0.2	96	28.6		7.7		23.0		80.6		5.5		6.4		7									
25-Aug-16	Fine	Calm	19:00	4.0	Surface	1.0	0.1	92	29.3	29.3	8.0	8.0	22.1	22.2	122.6	122.3	8.3	8.3	4.1	4.8	9	10	817883	814653						
						1.0	0.2	99	29.2		8.0		22.2		122.0		8.3		4.3		10									
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.0	0.1	125	29.0	29.0	7.9	7.9	22.7	22.8	101.4	101.2	6.9	6.9	5.2	6.9	5.2	6.9			5.2	6.9	11	10	-	-
						3.0	0.1	127	29.0		7.9		22.8		100.9		6.8		5.4		10									
27-Aug-16	Sunny	Moderate	07:12	5.0	Surface	1.0	0.2	57	29.2	29.2	8.0	8.0	18.0	18.0	111.3	111.7	7.7	7.8	1.6	6.6	5	12	817915	814655						
						1.0	0.2	59	29.2		8.0		17.9		112.1		7.8		1.7		4									
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	4.0	0.1	178	28.7	28.7	7.7	7.7	22.5	22.5	72.5	73.0	4.9	5.0	11.7	5.0	11.7	5.0			11.7	5.0	18	12	-	-
						4.0	0.1	191	28.7		7.7		22.5		73.4		5.0		11.3		19									
30-Aug-16	Sunny	Calm	10:20	5.3	Surface	1.0	0.3	138	27.8	27.8	7.9	7.9	25.0	25.0	88.4	88.4	6.0	6.0	2.3	4.7	6	12	817903	814664						
						1.0	0.3	143	27.8		7.9		25.0		88.4		6.0		2.4		5									
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	4.3	0.3	119	27.3	27.3	7.8	7.8	28.0	28.0	53.1	53.5	3.6	3.6	7.2	3.6	7.2	3.6			7.2	3.6	18	12	-	-
						4.3	0.3	127	27.3		7.8		28.0		53.9		3.6		7.0		18									

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 at SR7 during Mid-Ebb Tide

Date	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 (mg/L)		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)		
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA				
4-Aug-16	Cloudy	Moderate	12:20	16.9	Surface	1.0	0.6	60	24.1	24.1	7.7	7.7	27.0	27.0	65.4	65.4	4.7	4.5	2.7	3.0	5	5	823623	823750		
						1.0	0.6	65	24.1	24.1	7.7	7.7	27.0	27.0	65.5	65.4	4.7	4.5	2.6							
						8.5	0.4	61	23.5	23.5	7.7	7.7	28.6	28.6	59.2	59.2	4.3	4.3	3.2							
					Middle	8.5	0.4	62	23.5	23.5	7.7	7.7	28.6	28.6	59.2	59.2	4.3	4.3	3.2						3.0	4
						15.9	0.4	82	23.4	23.4	7.7	7.7	28.8	28.8	59.2	59.2	4.3	4.3	3.2						3.0	5
						15.9	0.5	82	23.4	23.4	7.7	7.7	28.8	28.8	59.3	59.2	4.3	4.3	3.2						3.0	4
6-Aug-16	Sunny	Moderate	15:58	16.8	Surface	1.0	0.4	94	26.8	26.8	7.6	7.6	22.7	22.7	74.0	74.0	5.2	5.2	3.9	3.2	5	5	823652	823750		
						1.0	0.4	97	26.8	26.8	7.6	7.6	22.7	22.7	73.9	74.0	5.2	5.2	4.0							
						8.4	0.4	84	26.6	26.6	7.6	7.6	22.9	22.9	72.3	72.3	5.1	5.1	2.6							
					Middle	8.4	0.4	92	26.6	26.6	7.6	7.6	22.9	22.9	72.2	72.3	5.1	5.1	2.6						3.2	4
						15.8	0.3	103	26.0	26.0	7.7	7.7	24.6	24.6	71.8	71.9	5.1	5.1	3.1						3.2	5
						15.8	0.3	111	26.0	26.0	7.7	7.7	24.6	24.6	71.9	71.9	5.1	5.1	3.1						3.2	6
9-Aug-16	Cloudy	Moderate	17:46	17.0	Surface	1.0	0.3	92	27.3	27.3	8.0	8.0	21.1	21.1	115.7	115.7	8.1	7.3	1.5	1.8	5	5	823619	823750		
						1.0	0.3	96	27.3	27.3	8.0	8.0	21.1	21.1	115.6	115.7	8.1	7.3	1.4							
						8.5	0.3	107	27.0	27.0	7.9	7.9	21.6	21.6	92.4	92.1	6.5	6.5	1.9							
					Middle	8.5	0.3	110	27.0	27.0	7.9	7.9	21.6	21.6	91.8	92.1	6.5	6.5	1.9						1.8	5
						16.0	0.4	92	24.3	24.3	7.7	7.7	30.0	30.0	69.2	69.2	4.9	4.9	2.1						1.8	5
						16.0	0.4	95	24.3	24.3	7.7	7.7	30.0	30.0	69.2	69.2	4.9	4.9	2.1						1.8	5
11-Aug-16	Fine	Moderate	19:53	14.3	Surface	1.0	0.2	102	25.8	25.8	7.8	7.8	24.6	24.6	87.5	87.5	6.2	6.1	0.5	0.7	4	4	823644	823754		
						1.0	0.2	107	25.8	25.8	7.8	7.8	24.6	24.6	87.5	87.5	6.2	6.1	0.5							
						7.2	0.1	145	25.3	25.3	7.8	7.8	26.2	26.1	83.3	83.5	5.9	5.9	0.5							
					Middle	7.2	0.2	153	25.3	25.3	7.8	7.8	26.0	26.1	83.6	83.5	5.9	5.9	0.5						0.7	4
						13.3	0.2	122	23.1	23.1	7.8	7.8	32.9	33.0	65.6	66.5	4.6	4.7	1.1						0.7	4
						13.3	0.2	131	23.0	23.1	7.8	7.8	33.0	33.0	67.4	66.5	4.8	4.7	1.0						0.7	4
13-Aug-16	Fine	Moderate	07:40	17.9	Surface	1.0	0.4	68	26.4	26.4	7.8	7.8	17.3	17.3	83.7	83.2	6.1	4.8	0.8	1.9	2	2	823650	823741		
						1.0	0.4	72	26.4	26.4	7.8	7.8	17.3	17.3	82.7	83.2	6.0	4.8	0.8							
						9.0	0.2	59	22.8	22.8	7.8	7.8	31.4	31.4	49.2	49.2	3.5	3.5	2.0							
					Middle	9.0	0.2	62	22.8	22.8	7.8	7.8	31.4	31.4	49.2	49.2	3.5	3.5	2.1						1.9	2
						16.9	0.3	65	22.5	22.5	7.8	7.8	31.6	31.6	49.1	49.3	3.5	3.6	2.7						1.9	2
						16.9	0.3	71	22.5	22.5	7.8	7.8	31.6	31.6	49.4	49.3	3.6	3.6	2.7						1.9	2
16-Aug-16	Rainy	Moderate	10:04	16.4	Surface	1.0	0.5	93	24.2	24.2	8.0	8.0	27.4	27.4	72.3	72.3	5.2	5.0	1.5	2.1	4	4	823618	823725		
						1.0	0.6	97	24.2	24.2	8.0	8.0	27.4	27.4	72.3	72.3	5.2	5.0	1.5							
						8.2	0.4	96	23.6	23.6	8.0	8.0	30.0	30.0	65.5	65.5	4.7	4.7	2.3							
					Middle	8.2	0.4	103	23.6	23.6	8.0	8.0	30.0	30.0	65.5	65.5	4.7	4.7	2.4						2.1	3
						15.4	0.4	108	23.4	23.4	7.9	7.9	30.8	30.8	64.9	65.0	4.6	4.6	2.4						2.1	6
						15.4	0.4	112	23.4	23.4	7.9	7.9	30.8	30.8	65.0	65.0	4.6	4.6	2.5						2.1	7
20-Aug-16	Fine	Moderate	14:36	17.0	Surface	1.0	0.9	78	25.9	25.9	7.8	7.8	25.7	25.7	75.0	75.0	5.3	5.2	3.3	3.6	3	3	823643	823733		
						1.0	0.9	78	25.9	25.9	7.8	7.8	25.7	25.7	75.0	75.0	5.3	5.2	3.4							
						8.5	0.7	84	25.4	25.4	7.8	7.8	27.4	27.4	71.0	71.0	5.0	5.0	3.0							
					Middle	8.5	0.7	89	25.4	25.4	7.8	7.8	27.4	27.4	71.0	71.0	5.0	5.0	3.0						3.6	3
						16.0	0.5	70	25.1	25.1	7.8	7.8	28.3	28.3	70.0	70.0	4.9	4.9	4.4						3.6	4
						16.0	0.5	73	25.1	25.1	7.8	7.8	28.3	28.3	70.0	70.0	4.9	4.9	4.4						3.6	4
23-Aug-16	Fine	Moderate	16:47	18.4	Surface	1.0	0.8	78	27.4	27.4	7.9	7.9	22.3	22.3	84.2	84.1	5.9	5.8	1.9	2.2	4	4	823650	823734		
						1.0	0.8	80	27.4	27.4	7.9	7.9	22.3	22.3	84.0	84.1	5.9	5.8	1.9							
						9.2	0.6	85	26.9	26.9	7.9	7.9	23.9	23.9	80.1	80.1	5.6	5.6	2.3							
					Middle	9.2	0.6	87	26.9	26.9	7.9	7.9	23.9	23.9	80.1	80.1	5.6	5.6	2.3						2.2	3
						17.4	1.4	227	26.8	26.8	7.9	7.9	24.2	24.2	80.0	80.0	5.6	5.6	2.4						2.2	5
						17.4	1.6	231	26.8	26.8	7.9	7.9	24.2	24.2	80.0	80.0	5.6	5.6	2.4						2.2	4
25-Aug-16	Fine	Calm	18:55	17.1	Surface	1.0	0.5	89	28.9	28.9	7.9	7.9	24.9	24.9	81.8	81.8	5.5	5.3	1.7	2.2	3	3	823654	823751		
						1.0	0.5	89	28.9	28.9	7.9	7.9	24.8	24.9	81.7	81.8	5.5	5.3	1.7							
						8.6	0.3	102	28.1	28.1	7.9	7.9	26.7	26.7	75.4	75.4	5.1	5.1	2.5							
					Middle	8.6	0.3	108	28.1	28.1	7.9	7.9	26.7	26.7	75.4	75.4	5.1	5.1	2.5						2.2	3
						16.1	1.6	186	28.0	28.0	7.9	7.9	27.0	27.0	72.1	72.1	4.9	4.9	2.4						2.2	3
						16.1	1.7	187	28.0	28.0	7.9	7.9	27.0	27.0	72.1	72.1	4.9	4.9	2.4						2.2	3
27-Aug-16	Fine	Calm	07:15	16.8	Surface	1.0	0.4	92	28.9	28.9	8.0	8.0	20.4	20.4	87.5	87.5	6.0	5.3	1.9	2.6	3	3	823628	823732		
						1.0	0.4	100	28.9	28.9	8.0	8.0	20.4	20.4	87.4	87.5	6.0	5.3	1.9							
						8.4	0.2	87	27.9	28.0	7.9	7.9	26.8	26.8	67.4	67.4	4.6	4.6	2.9							
					Middle	8.4	0.3	92	28.0	28.0	7.9	7.9	26.8	26.8	67.4	67.4	4.6	4.6	2.9						2.6	3
						15.8	0.3	108	26.3	26.3	7.9	7.9	32.2	32.2	55.2	55.3	3.7	3.7	3.0						2.6	5
						15.8	0.3	113	26.3	26.3	7.9	7.9	32.2	32.2	55.3	55.3	3.7	3.7	3.0						2.6	5
30-Aug-16	Cloudy	Moderate	10:09	16.8	Surface	1.0	0.5	85	25.0	25.0	8.0	8.0	28.3	28.3	66.9	66.9	4.7	4.5	2.6	3.2	6	6	823642	823751		
						1.0	0.6	92	25.0	25.0	8.0	8.0	28.2	28.3	66.8	66.9	4.7	4.5	2.6							
						8.4	1.4	75	24.5	24.5	7.9	7.9	29.4	29.4	59.4	59.4	4.2	4.2	3.5							
					Middle	8.4	1.4	77	24.5	24.5	7.9	7.9	29.4	29.4	59.4	59.4	4.2	4.2	3.6						3.2	5
						15.8	2.7	90	24.5	24.5	7.9	7.9	29.4	29.4	60.7	60.8	4.3	4.3	3.5						3.2	7
						15.8	2.7	91	24.5	24.5	7.9	7.9	29.4	29.4	60.8	60.8	4.3	4.3	3.5						3.2	7

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

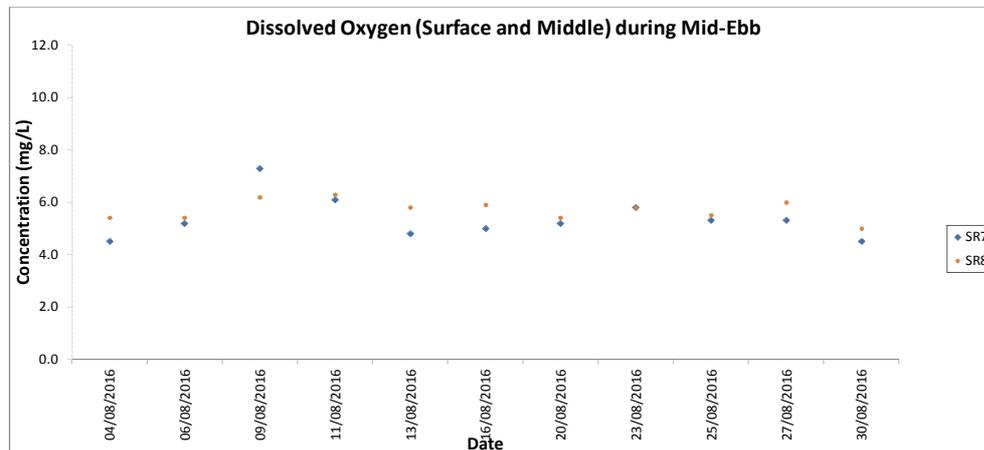
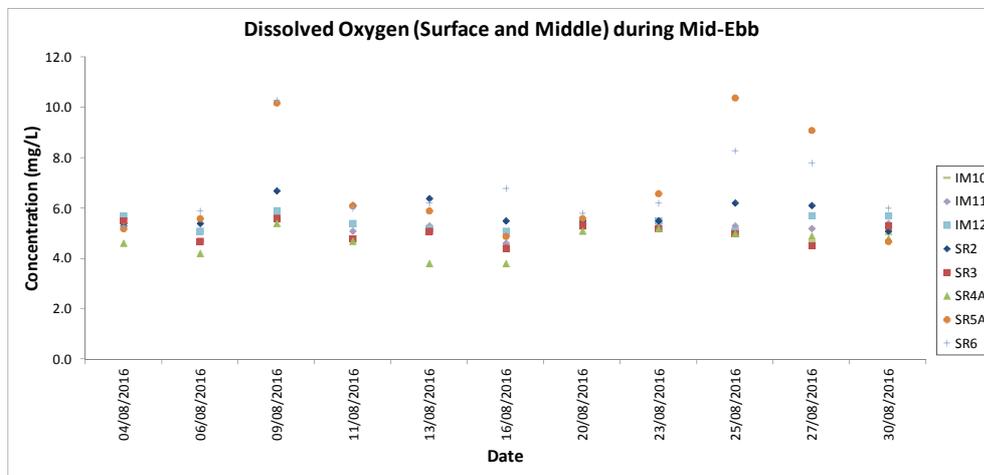
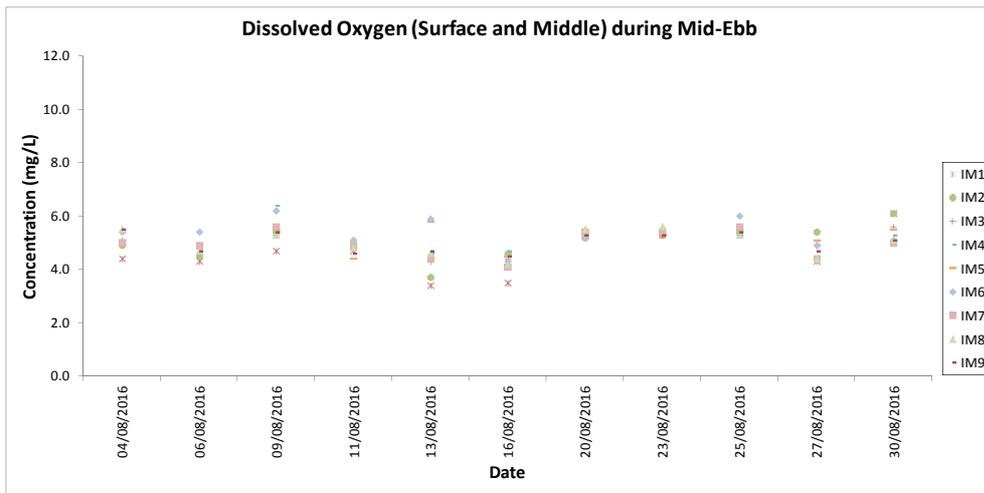
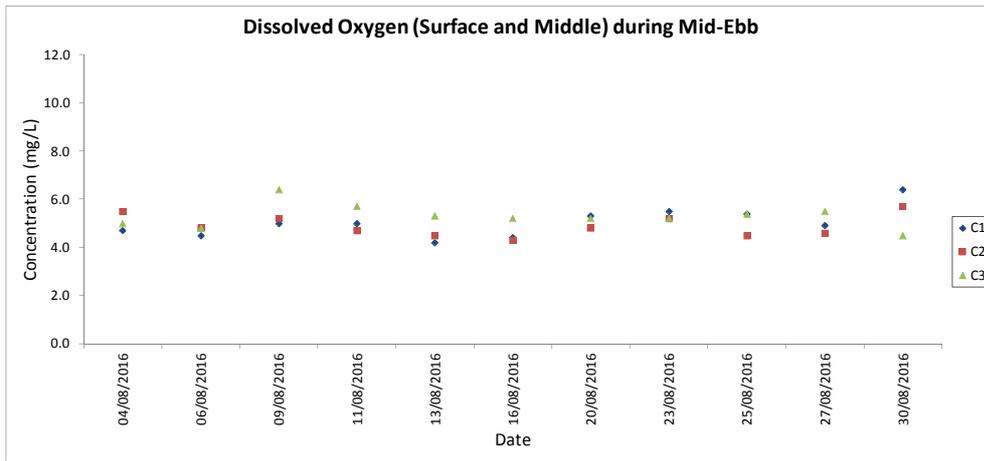
Water Quality Monitoring

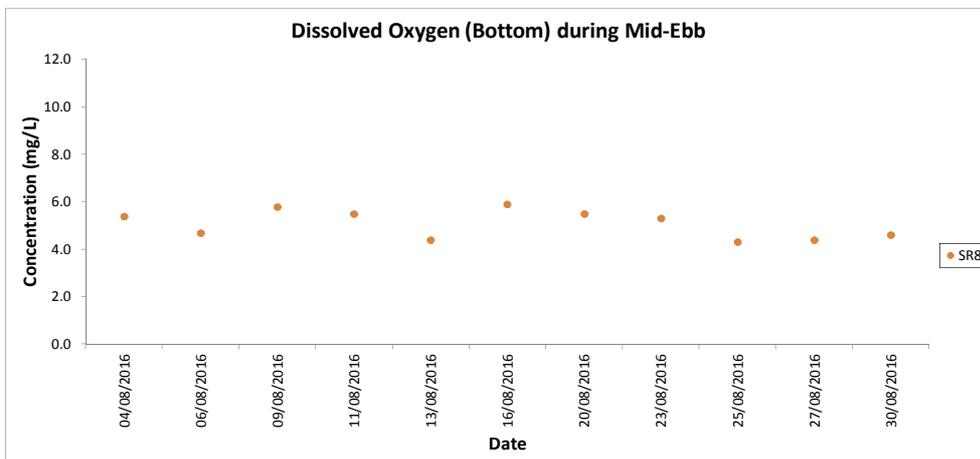
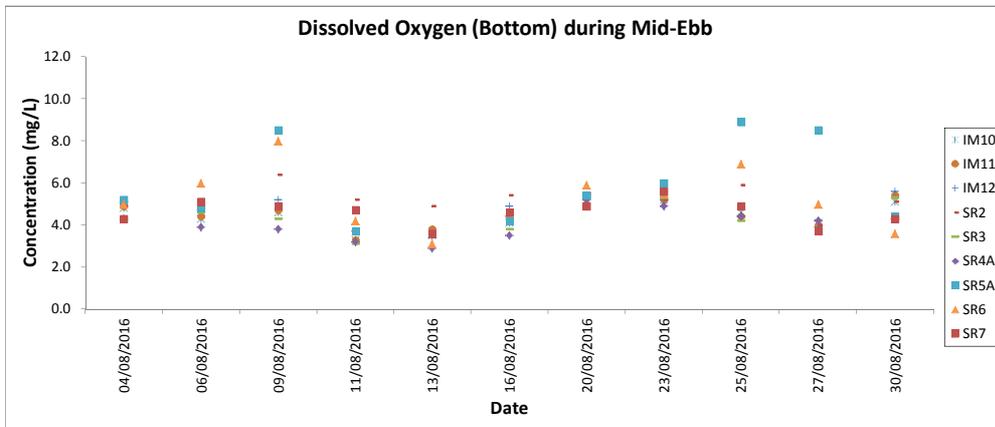
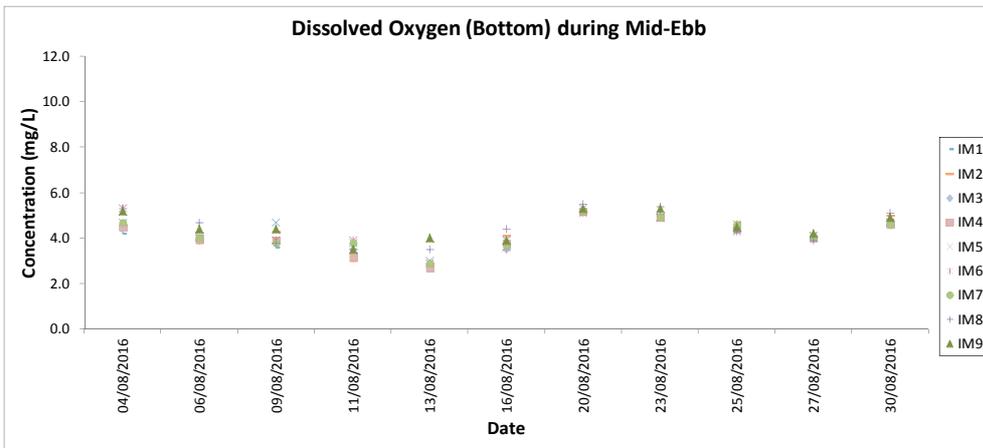
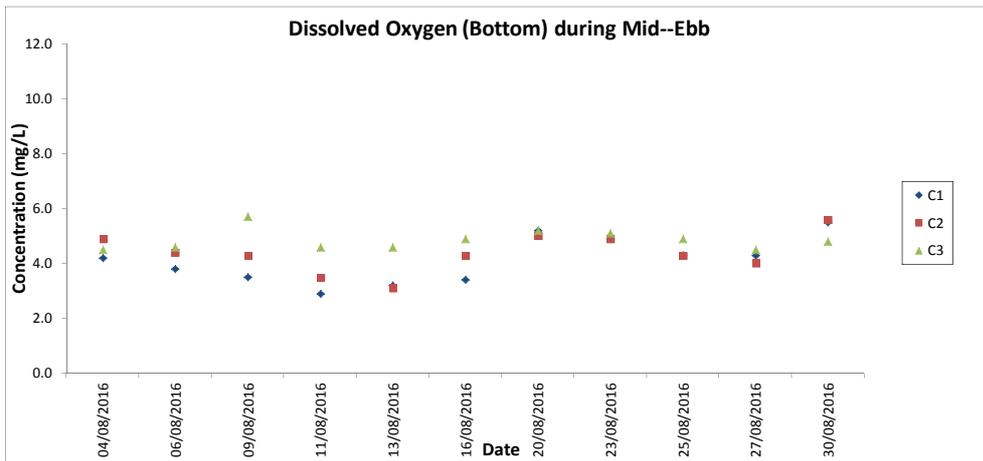
Water Quality Monitoring Results at SR8 during Mid-Ebb Tide

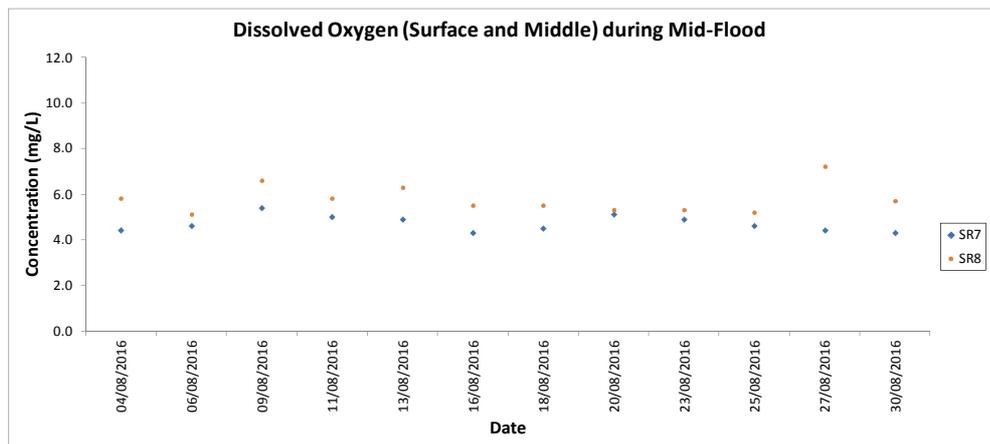
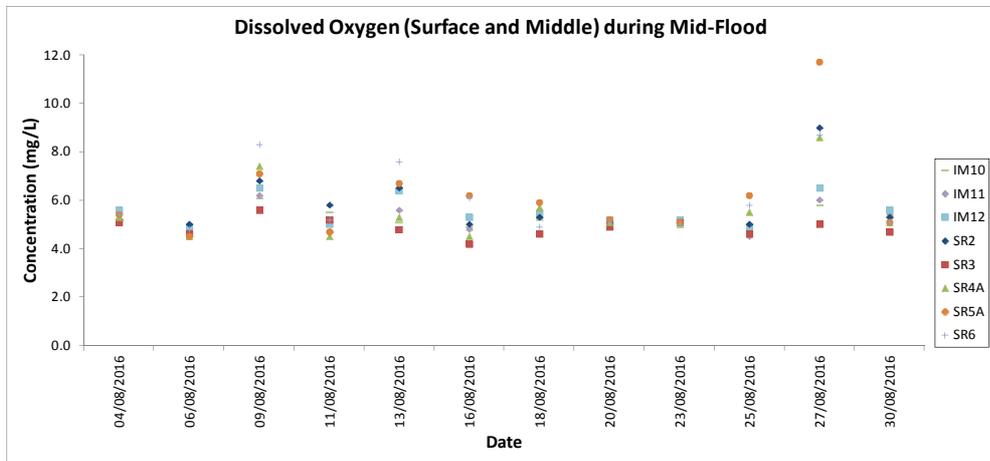
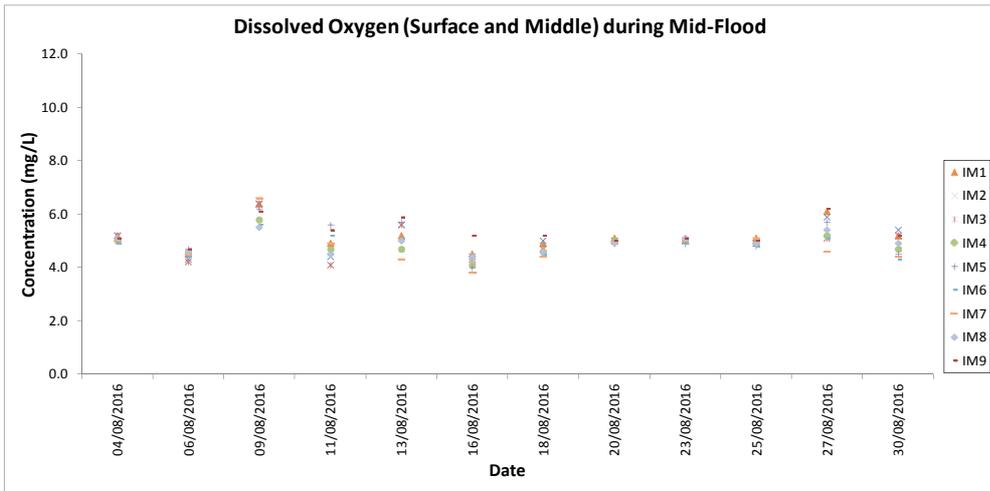
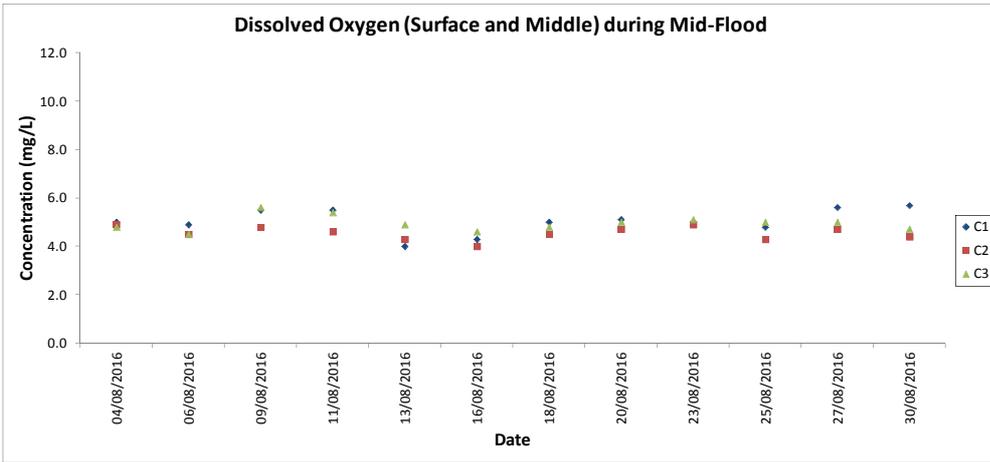
Date	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA						
4-Aug-16	Rainy	Moderate	13:51	5.6	Surface	1.0	0.3	224	25.5	25.5	7.7	7.7	24.2	24.2	76.0	76.0	5.4	5.4	8.5	10.7	7	9	820402	811589				
						1.0	0.3	239	25.5	7.7	7.7	24.2	24.2	76.0	76.0	5.4	5.4	8.6	10.7	7								
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.6	0.3	192	25.0	25.0	7.7	7.7	25.3	25.3	75.1	75.1	5.4	5.4	12.9	10.7	10							
						4.6	0.3	192	25.0	25.0	7.7	7.7	25.3	25.3	75.1	75.1	5.4	5.4	12.9	10.7	10							
6-Aug-16	Sunny	Moderate	14:47	5.5	Surface	1.0	0.3	136	28.1	28.1	7.6	7.6	19.9	19.9	77.5	77.5	5.4	5.4	9.1	9.4	5	5	820425	811605				
						1.0	0.3	140	28.1	28.1	7.6	7.6	19.9	19.9	77.5	77.5	5.4	5.4	9.3	9.4	5							
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.5	0.3	210	27.8	27.8	7.6	7.6	20.3	20.3	66.6	66.6	4.7	4.7	9.5	9.4	6							
						4.5	0.3	215	27.8	27.8	7.6	7.6	20.3	20.3	66.6	66.6	4.7	4.7	9.6	9.4	5							
9-Aug-16	Cloudy	Moderate	16:35	5.4	Surface	1.0	0.2	151	27.8	27.8	7.8	7.8	18.3	18.3	87.6	87.6	6.2	6.2	6.9	8.4	3	4	820414	811576				
						1.0	0.2	157	27.8	27.8	7.8	7.8	18.3	18.3	87.6	87.6	6.2	6.2	6.9	8.4	3							
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.4	0.3	211	26.9	26.9	7.7	7.7	22.0	22.0	82.9	82.9	5.8	5.8	9.9	8.4	5							
						4.4	0.3	219	26.9	26.9	7.7	7.7	22.0	22.0	82.9	82.9	5.8	5.8	9.9	8.4	3							
11-Aug-16	Fine	Moderate	18:38	5.2	Surface	1.0	0.2	155	26.3	26.3	7.8	7.8	21.8	21.8	88.0	87.9	6.3	6.3	0.5	0.8	<2	<2	820400	811574				
						1.0	0.2	155	26.3	26.3	7.8	7.8	21.8	21.8	87.7	87.9	6.3	6.3	0.5	0.8	<2							
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.2	0.2	141	25.7	25.7	7.8	7.8	24.4	24.4	77.8	77.9	5.5	5.5	1.0	0.8	<2							
						4.2	0.2	148	25.7	25.7	7.8	7.8	24.4	24.4	77.9	77.9	5.5	5.5	1.0	0.8	<2							
13-Aug-16	Fine	Moderate	09:11	4.3	Surface	1.0	0.2	190	26.9	26.9	7.8	7.8	17.6	17.9	80.8	79.8	5.8	5.8	1.4	1.6	<2	2	820420	811580				
						1.0	0.2	203	26.8	26.8	7.8	7.8	18.2	18.2	78.8	78.8	5.7	5.7	1.4	1.6	<2							
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	3.3	0.3	124	25.2	25.3	7.7	7.7	24.9	24.9	62.2	62.3	4.4	4.4	1.8	1.6	2							
						3.3	0.3	130	25.3	25.3	7.7	7.7	24.9	24.9	62.3	62.3	4.4	4.4	1.9	1.6	2							
16-Aug-16	Cloudy	Moderate	11:41	5.5	Surface	1.0	0.2	159	25.2	25.2	7.9	7.9	22.8	22.8	81.2	81.2	5.9	5.9	2.8	3.0	3	4	820435	811581				
						1.0	0.2	169	25.2	25.2	7.9	7.9	22.8	22.8	81.2	81.2	5.9	5.9	2.8	3.0	4							
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.5	0.2	144	25.1	25.1	7.9	7.9	23.2	23.2	81.1	81.1	5.9	5.9	3.1	3.0	4							
						4.5	0.2	152	25.1	25.1	7.9	7.9	23.2	23.2	81.1	81.1	5.9	5.9	3.1	3.0	5							
20-Aug-16	Fine	Moderate	13:40	5.7	Surface	1.0	0.3	149	26.7	26.7	7.8	7.8	23.8	23.8	77.4	77.4	5.4	5.4	8.4	8.9	10	10	820420	811581				
						1.0	0.3	151	26.7	26.7	7.8	7.8	23.8	23.8	77.4	77.4	5.4	5.4	8.5	8.9	11							
					Middle	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.7	0.3	233	26.6	26.6	7.8	7.8	24.7	24.7	78.7	78.7	5.5	5.5	9.2	8.9	9							
						4.7	0.4	235	26.6	26.6	7.8	7.8	24.7	24.7	78.7	78.7	5.5	5.5	9.3	8.9	10							
23-Aug-16	Fine	Moderate	15:48	5.8	Surface	1.0	0.3	153	28.4	28.4	7.8	7.8	18.8	18.8	83.0	83.0	5.8	5.8	5.8	7.2	6	7	820414	811586				
						1.0	0.4	158	28.4	28.4	7.8	7.8	18.8	18.8	83.0	83.0	5.8	5.8	5.8	7.2	6							
					Middle	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.8	0.3	188	27.1	27.1	7.8	7.8	22.7	22.7	76.2	76.2	5.3	5.3	8.5	7.2	9							
						4.8	0.3	203	27.1	27.1	7.8	7.8	22.7	22.7	76.2	76.2	5.3	5.3	8.5	7.2	8							
25-Aug-16	Fine	Moderate	17:39	5.0	Surface	1.0	0.3	194	29.8	29.8	7.9	7.9	19.6	19.6	80.0	79.9	5.5	5.5	5.3	6.3	5	6	820397	811611				
						1.0	0.3	196	29.8	29.8	7.9	7.9	19.6	19.6	79.7	79.9	5.4	5.4	5.2	6.3	5							
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.0	0.2	168	28.0	28.0	7.8	7.8	24.9	24.9	63.6	63.6	4.3	4.3	7.3	6.3	7							
						4.0	0.2	179	28.0	28.0	7.8	7.8	24.9	24.9	63.6	63.6	4.3	4.3	7.3	6.3	7							
27-Aug-16	Fine	Moderate	08:38	5.6	Surface	1.0	0.3	161	29.4	29.4	7.9	7.9	18.2	18.2	87.1	87.1	6.0	6.0	3.5	8.5	2	2	820436	811593				
						1.0	0.3	172	29.4	29.4	7.9	7.9	18.2	18.2	87.0	87.1	6.0	6.0	3.5	8.5	<2							
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.6	0.2	150	28.0	28.0	7.8	7.8	25.1	25.1	64.0	64.1	4.4	4.4	13.6	8.5	2							
						4.6	0.2	155	28.0	28.0	7.8	7.8	25.1	25.1	64.2	64.1	4.4	4.4	13.5	8.5	3							
30-Aug-16	Fine	Moderate	11:52	5.7	Surface	1.0	0.3	227	25.8	25.8	8.0	8.0	27.4	27.4	71.1	71.1	5.0	5.0	7.8	10.4	8	8	820418	811588				
						1.0	0.3	238	25.8	25.8	8.0	8.0	27.4	27.4	71.1	71.1	5.0	5.0	7.8	10.4	7							
					Middle	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.7	0.3	195	25.3	25.3	8.0	8.0	28.5	28.5	65.6	65.7	4.6	4.6	12.9	10.4	8							
						4.7	0.3	202	25.3	25.3	8.0	8.0	28.5	28.5	65.8	65.7	4.6	4.6	12.9	10.4	9							

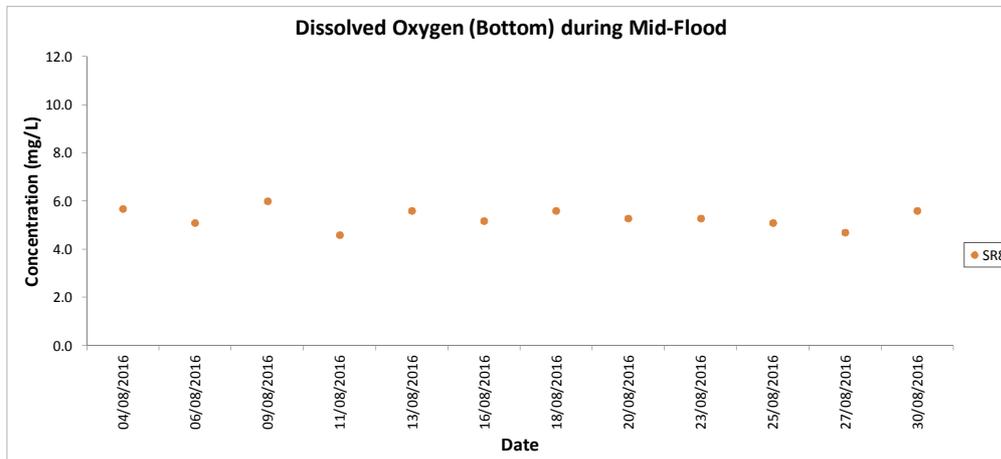
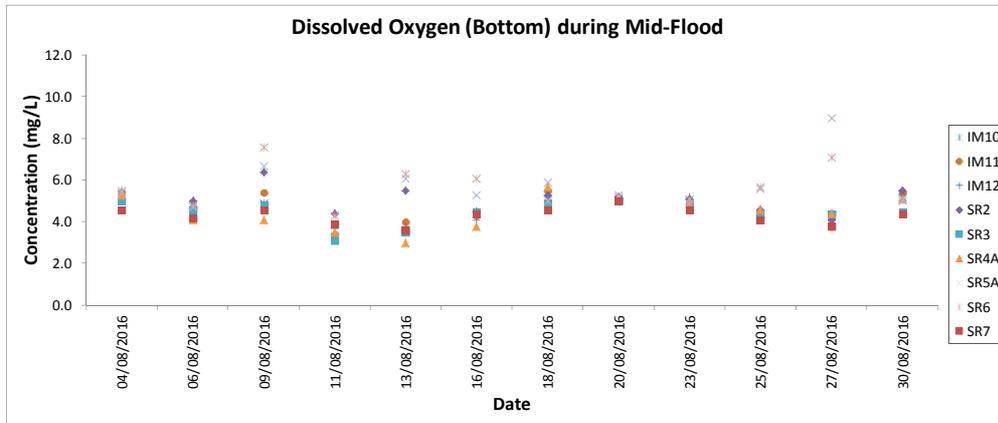
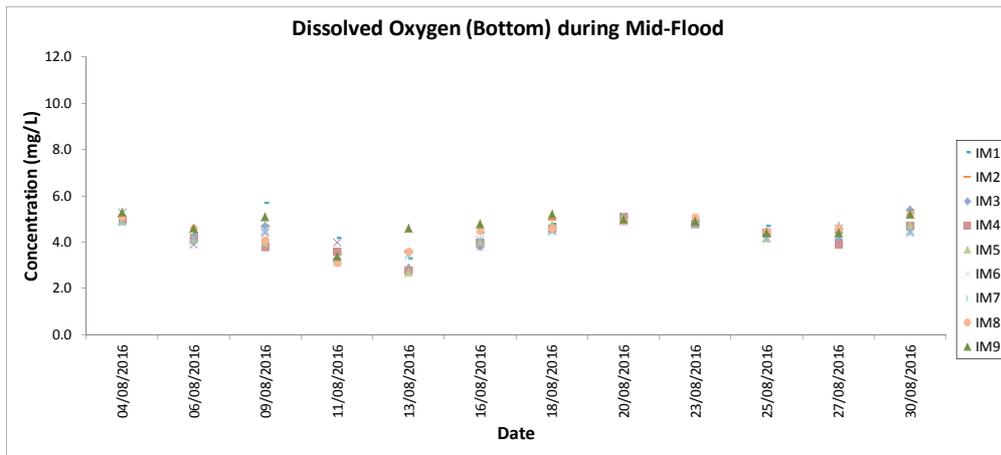
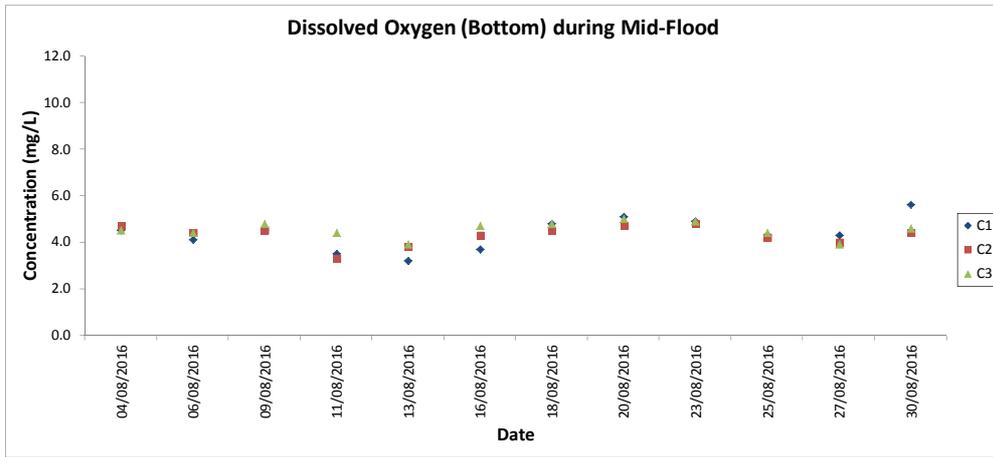
DA: Depth-Averaged

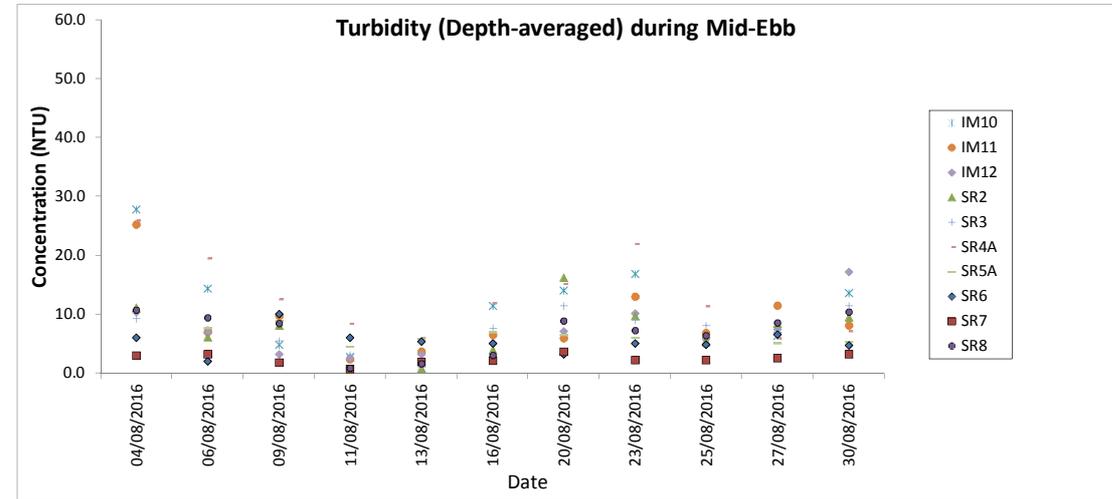
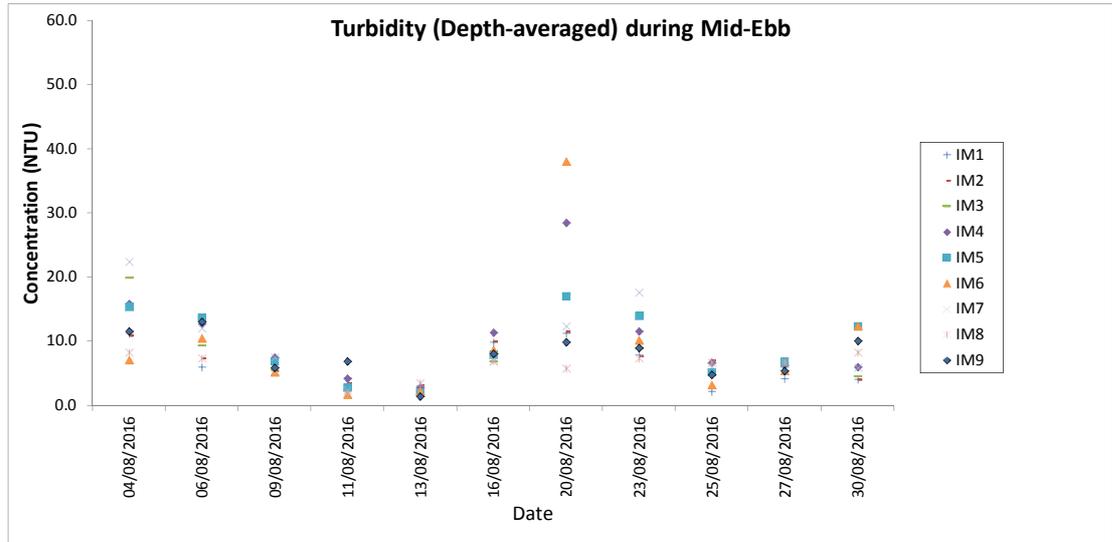
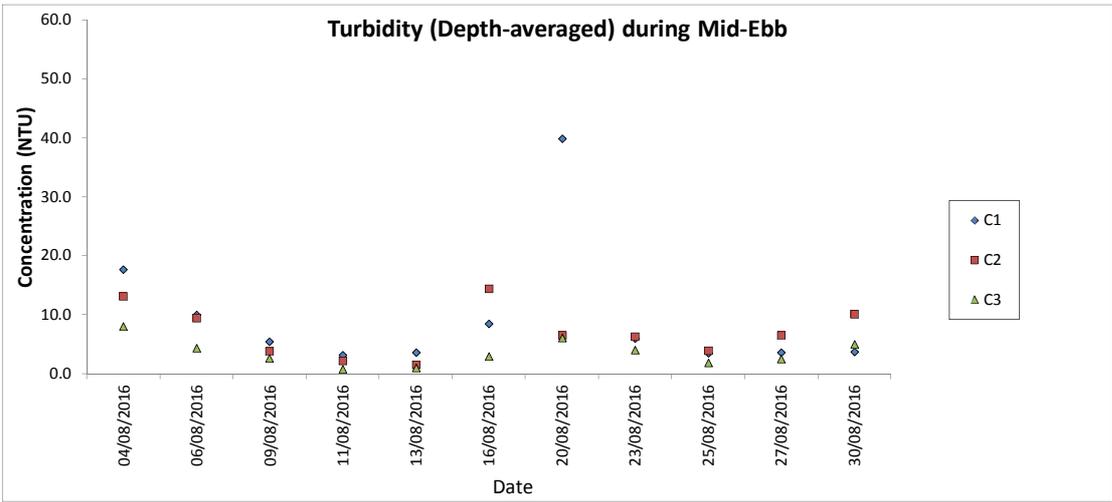
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher



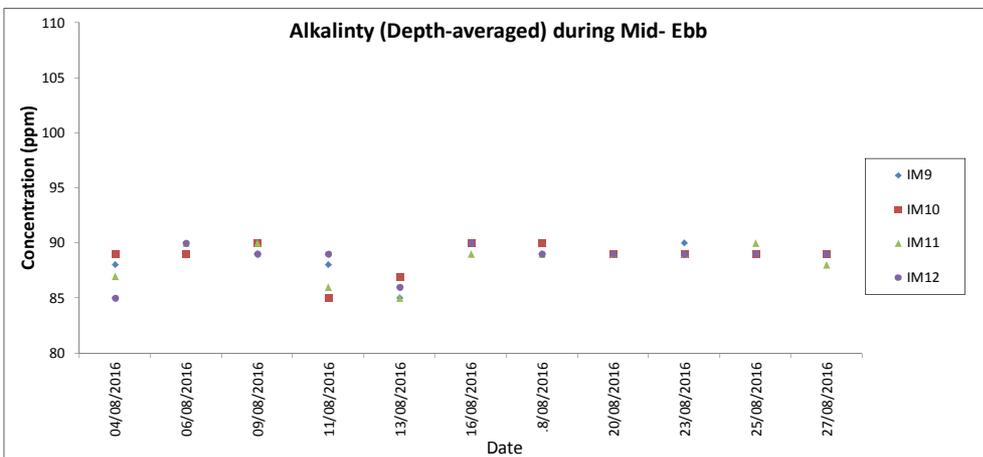
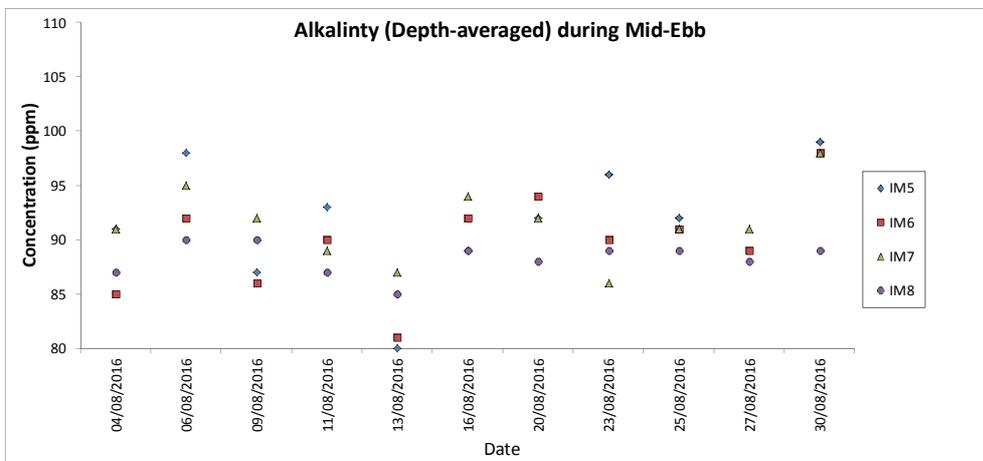
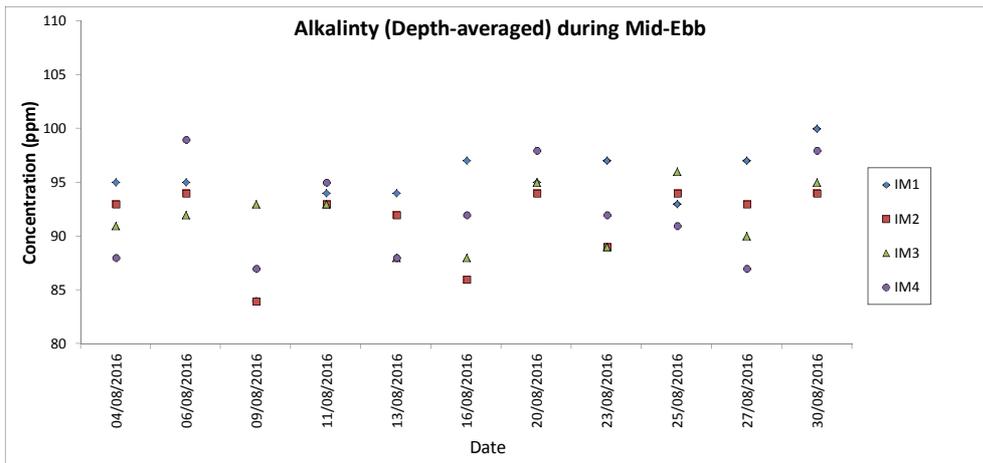
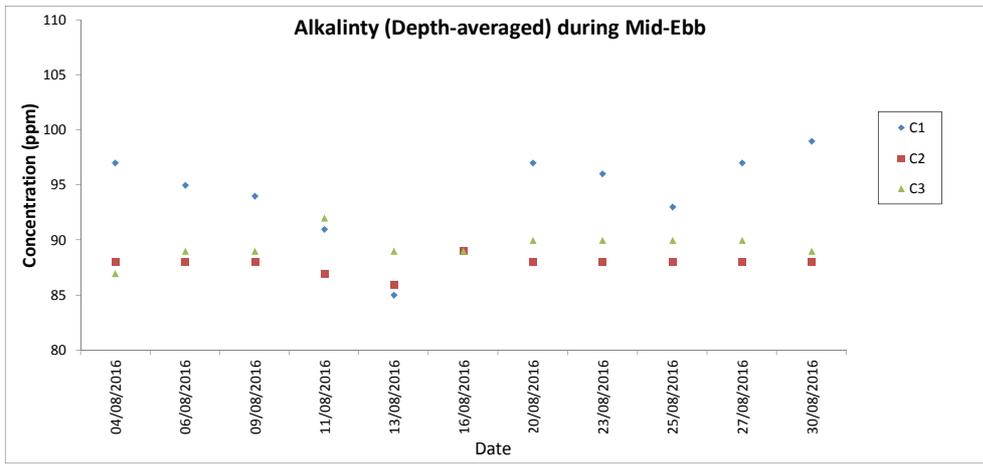




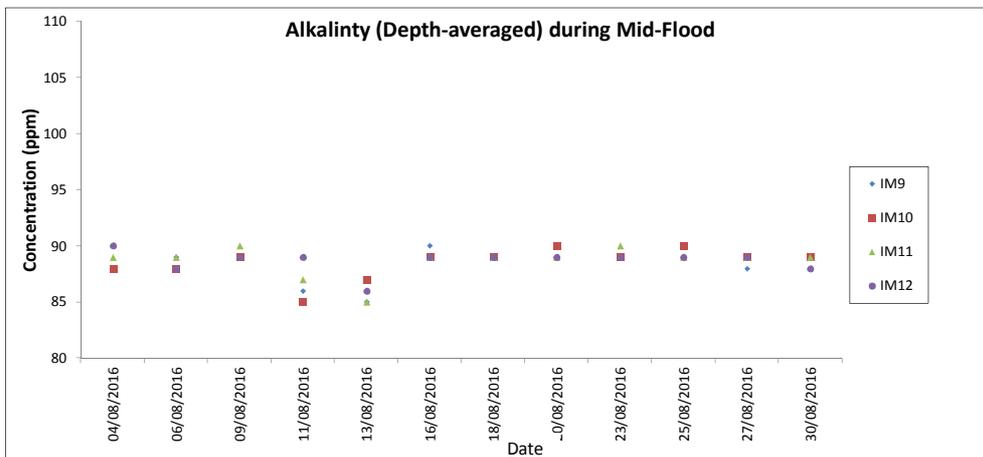
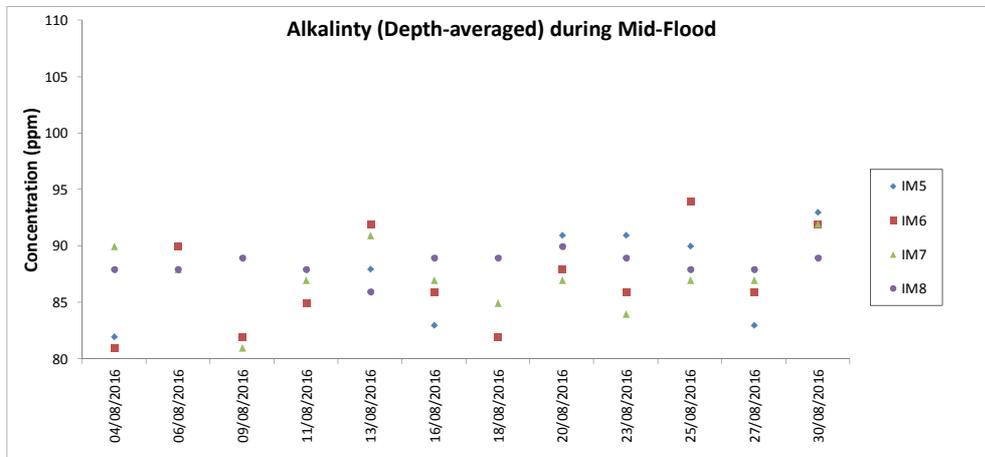
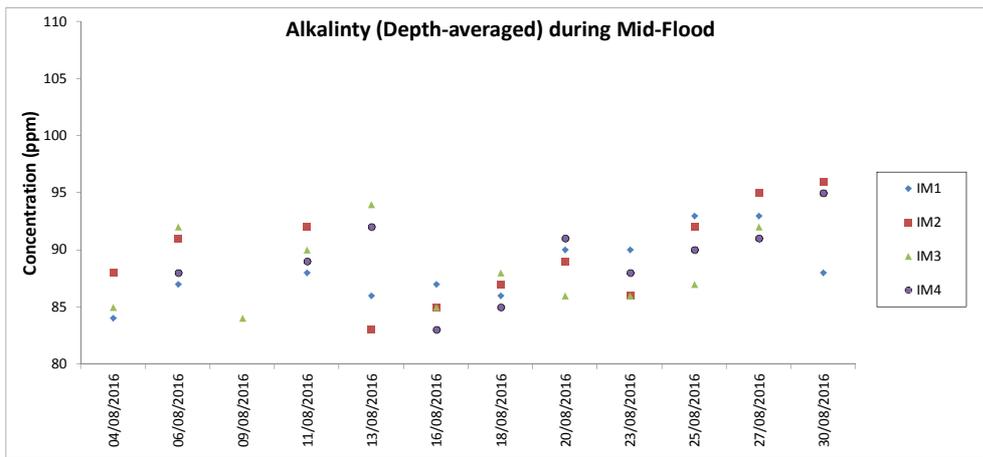
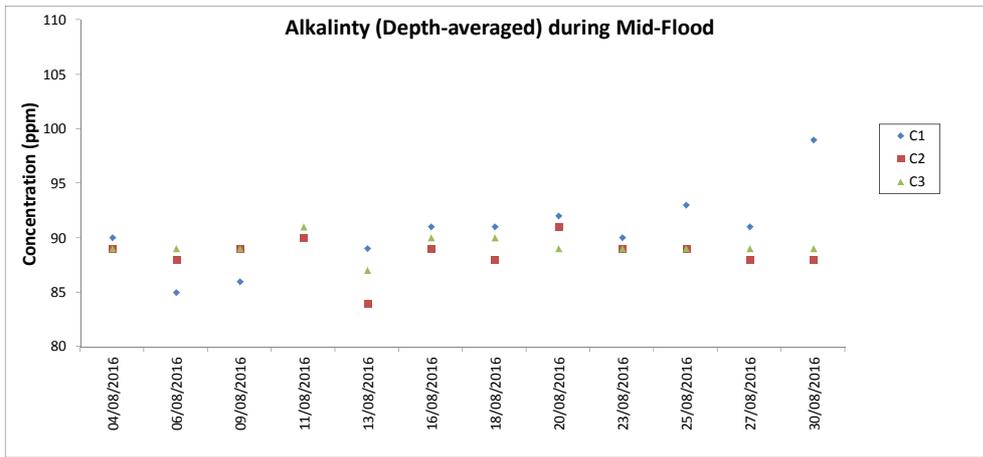




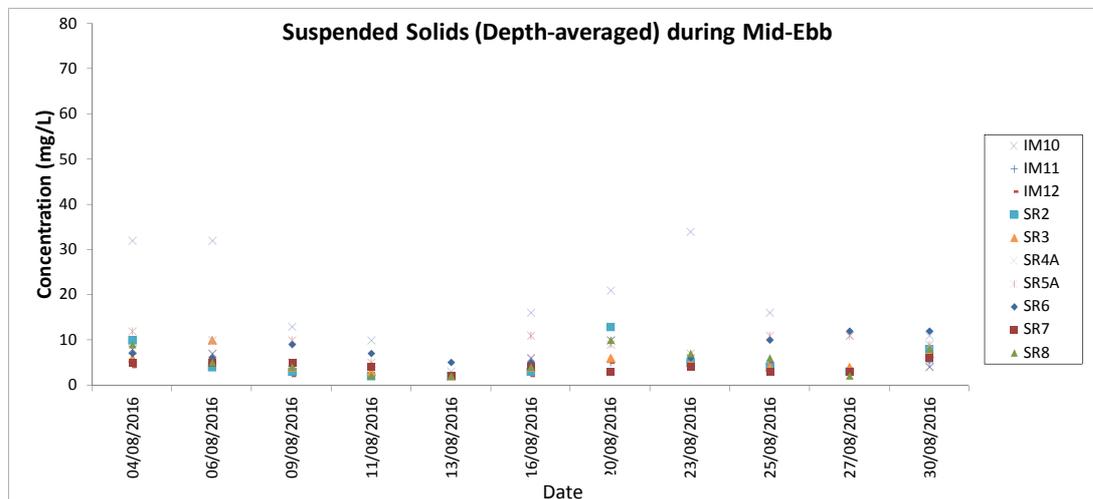
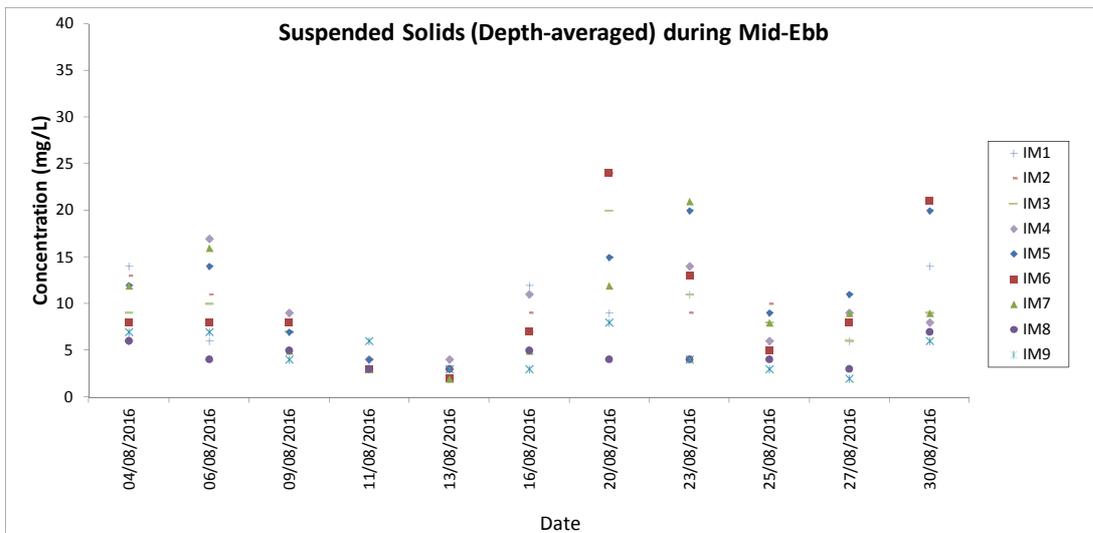
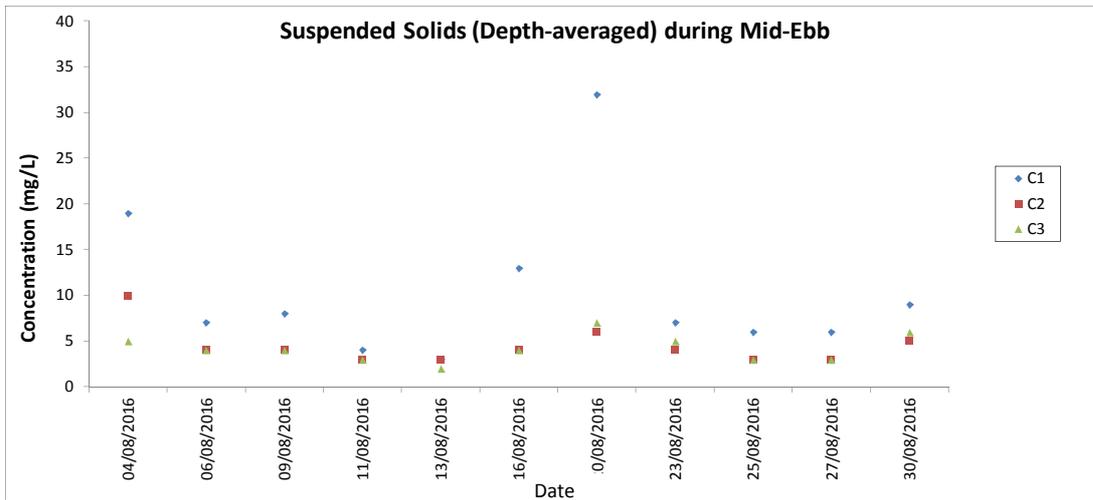
Note: The action and limit level of turbidity can be referred to table 4.2 of the monthly EM&A report.



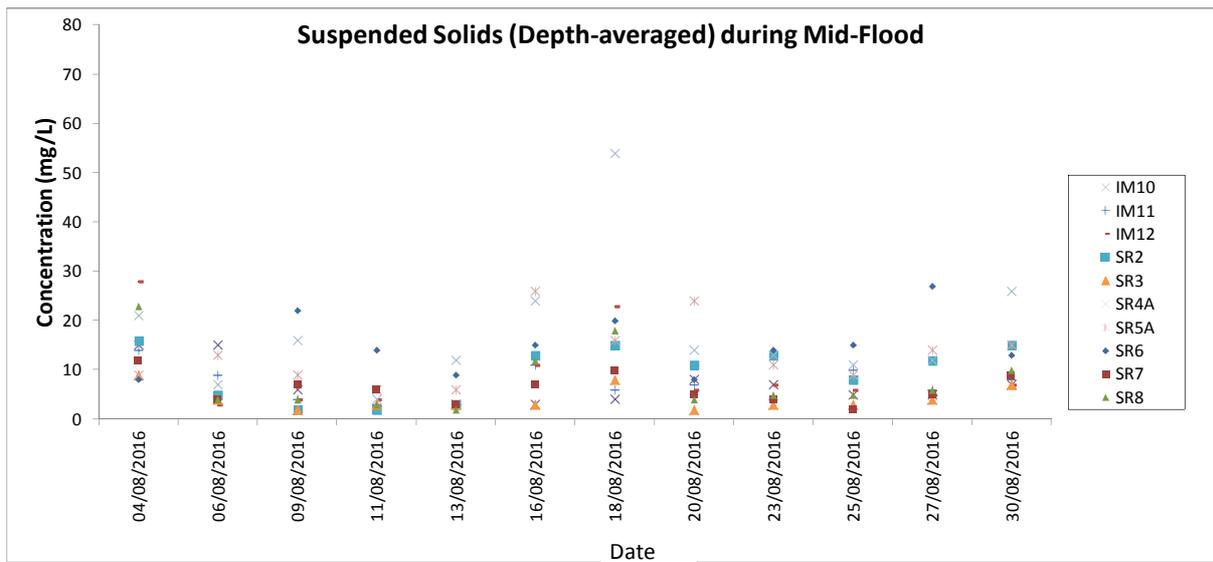
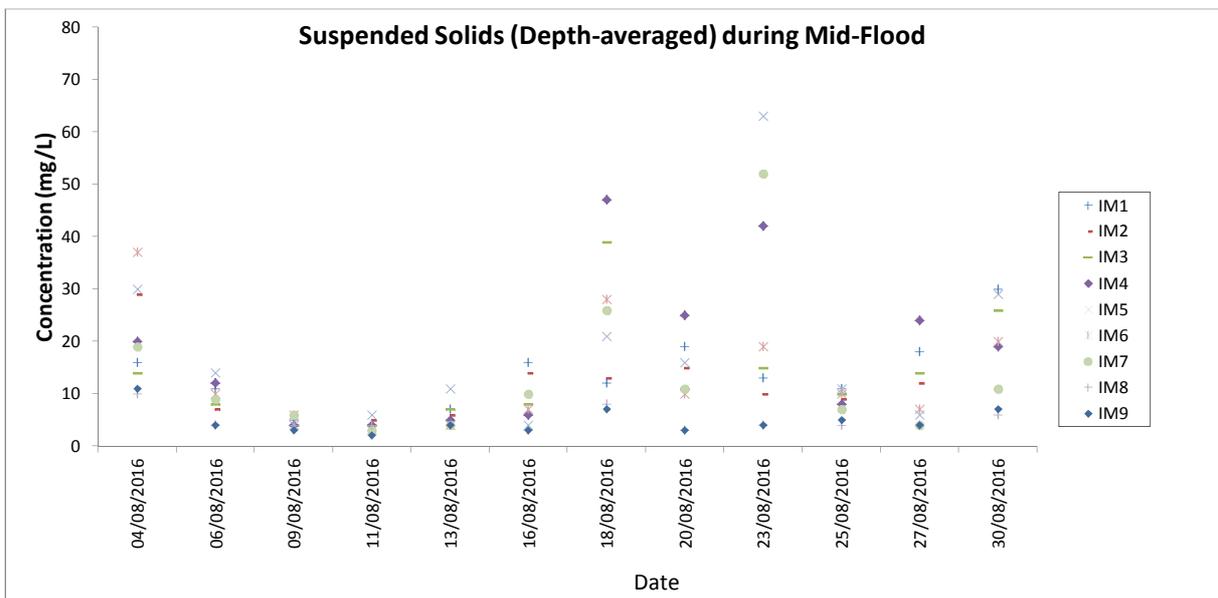
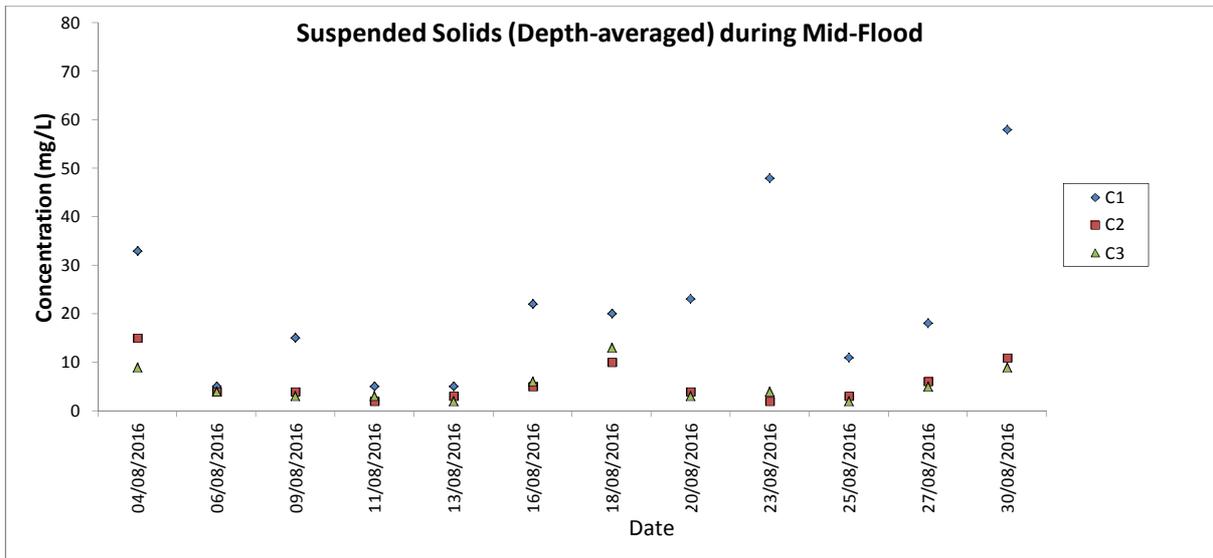
Note: The action and limit level of alkalinity can be referred to table 4.2 of the monthly EM&A report.



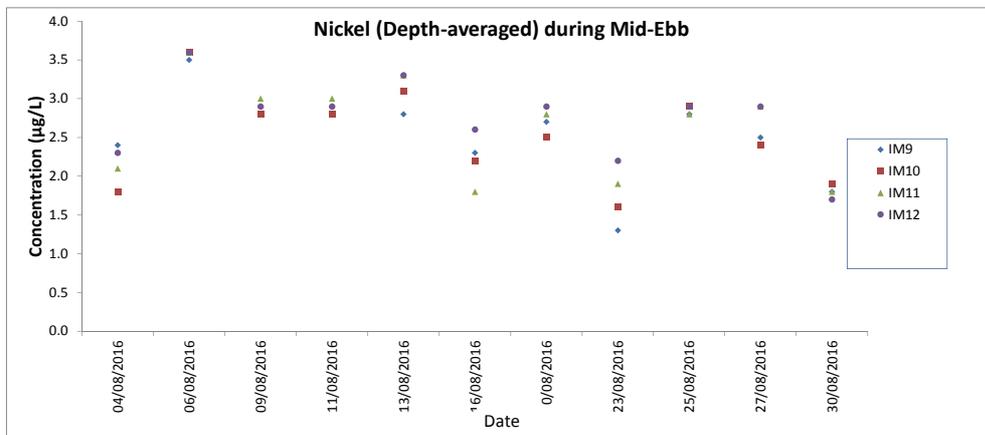
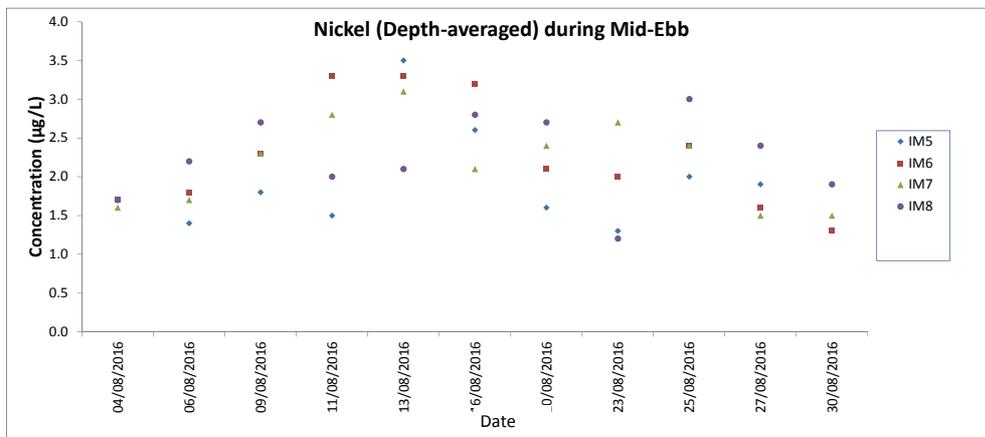
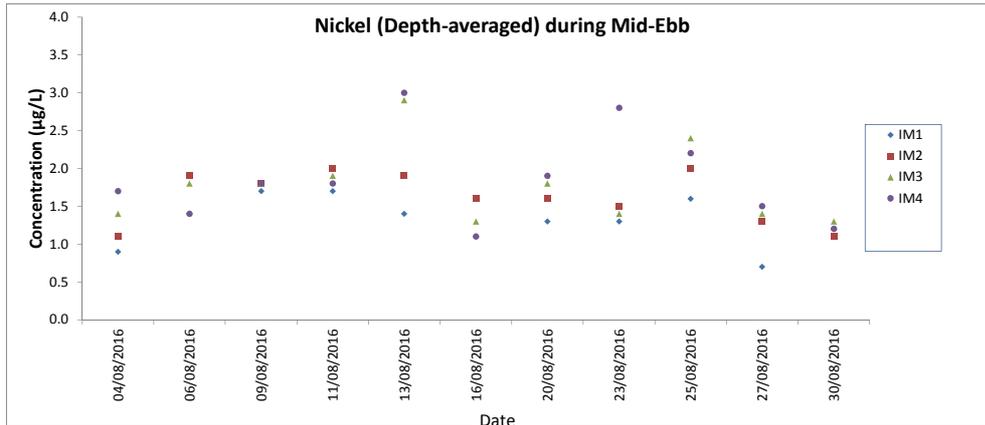
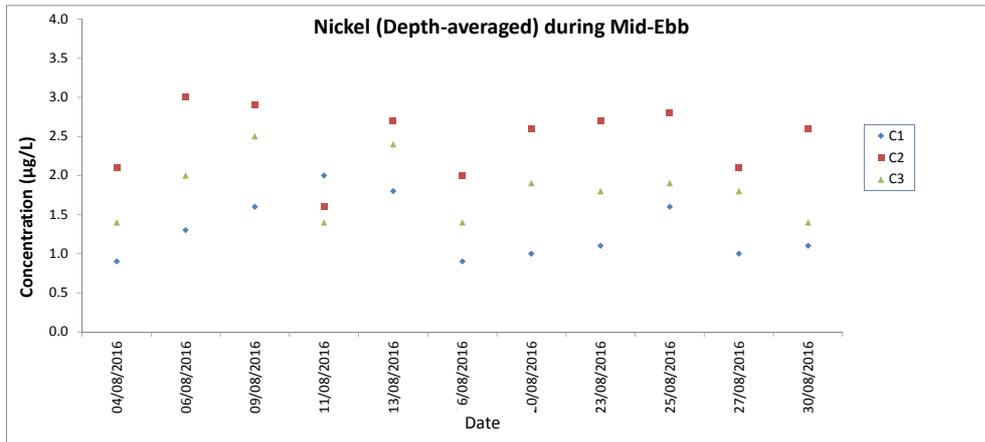
Note: The action and limit level of alkalinity can be referred to table 4.2 of the monthly EM&A report.



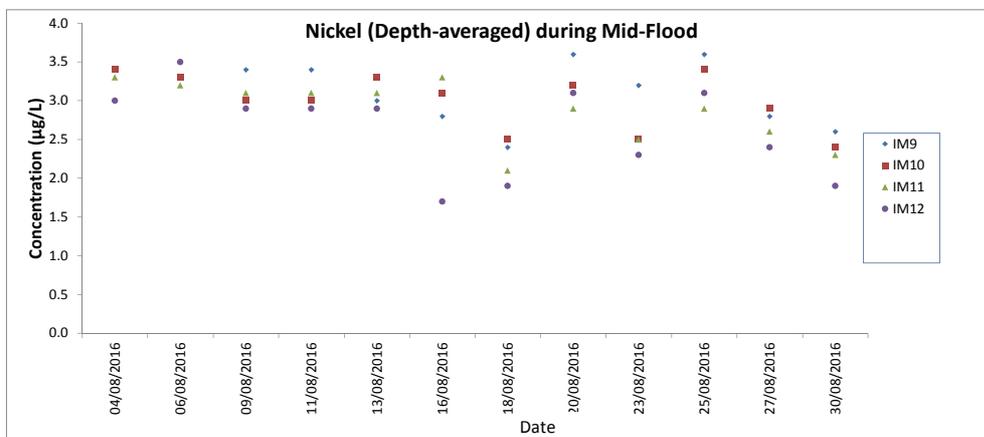
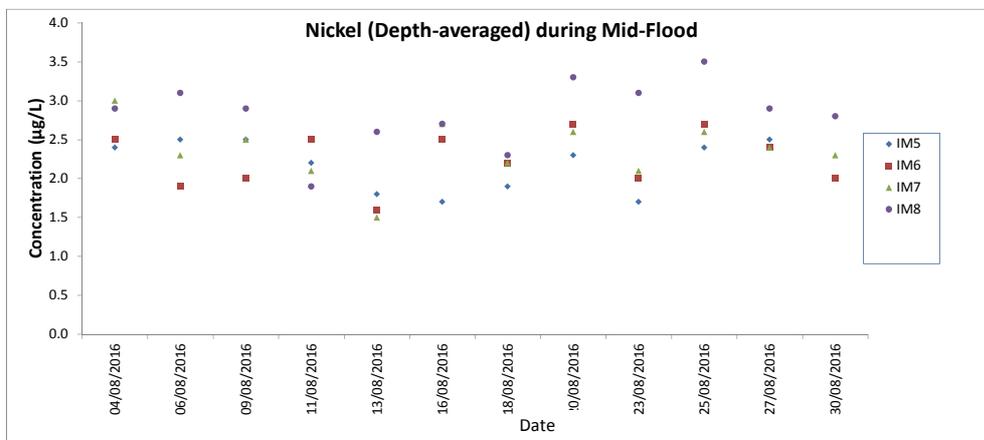
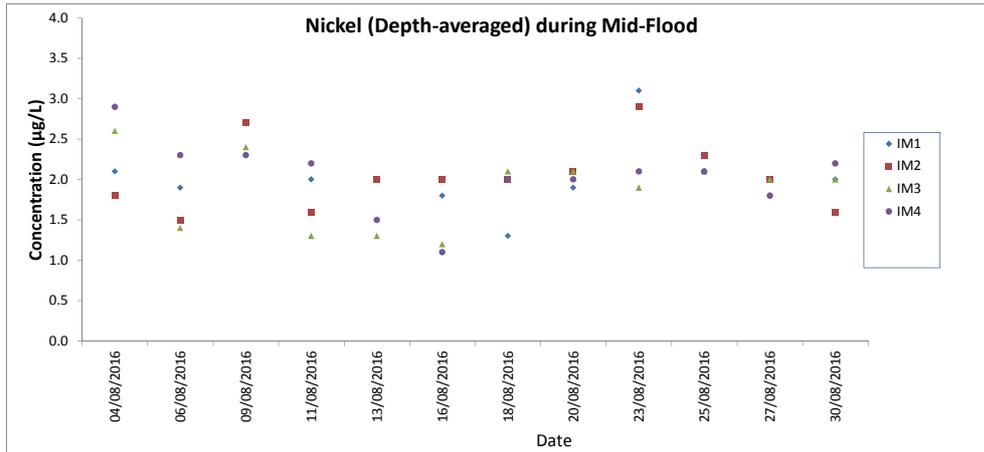
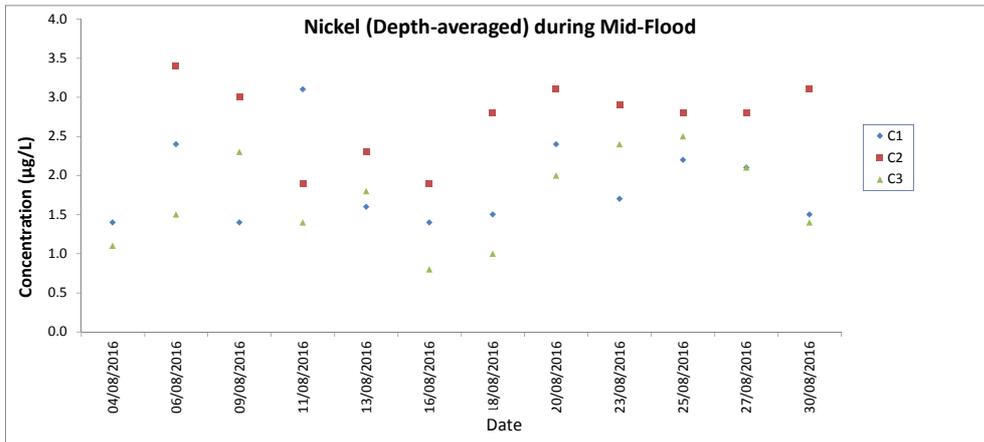
Note: The action and limit level of Suspended Solids can be referred to table 4.2 of the monthly EM&A report.



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 Nickel 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.
 The monitoring results of Chromium at all monitoring stations were below the reporting limit <0.2 µg/L,
 the impact monitoring results of Chromium at all monitoring stations can be referred to Appendix E. of the monthly EM&A report.

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
19-May-16	NEL	2	4.18	SPRING	32166	3RS ET
19-May-16	NEL	3	26.02	SPRING	32166	3RS ET
19-May-16	NEL	4	17.30	SPRING	32166	3RS ET
23-May-16	NWL	2	55.49	SPRING	32166	3RS ET
23-May-16	NWL	3	16.07	SPRING	32166	3RS ET
23-May-16	NWL	4	0.50	SPRING	32166	3RS ET
24-May-16	AW	2	4.58	SPRING	32166	3RS ET
24-May-16	WL	1	11.26	SPRING	32166	3RS ET
24-May-16	WL	2	16.40	SPRING	32166	3RS ET
24-May-16	WL	3	2.19	SPRING	32166	3RS ET
24-May-16	SWL	2	2.70	SPRING	32166	3RS ET
24-May-16	SWL	3	1.64	SPRING	32166	3RS ET
25-May-16	SWL	2	11.20	SPRING	32166	3RS ET
25-May-16	SWL	3	21.20	SPRING	32166	3RS ET
25-May-16	SWL	4	27.25	SPRING	32166	3RS ET
25-May-16	SWL	5	2.50	SPRING	32166	3RS ET
30-May-16	NWL	2	5.40	SPRING	32166	3RS ET
30-May-16	NWL	3	47.88	SPRING	32166	3RS ET
30-May-16	NWL	4	28.49	SPRING	32166	3RS ET
31-May-16	NEL	1	2.47	SPRING	32166	3RS ET
31-May-16	NEL	2	28.90	SPRING	32166	3RS ET
31-May-16	NEL	3	15.63	SPRING	32166	3RS ET
31-May-16	NWL	4	10.40	SPRING	32166	3RS ET
6-Jun-16	AW	2	4.91	SUMMER	32166	3RS ET
6-Jun-16	WL	2	28.70	SUMMER	32166	3RS ET
6-Jun-16	WL	3	4.97	SUMMER	32166	3RS ET
6-Jun-16	SWL	2	2.40	SUMMER	32166	3RS ET
6-Jun-16	SWL	3	1.16	SUMMER	32166	3RS ET
7-Jun-16	SWL	2	9.90	SUMMER	32166	3RS ET
7-Jun-16	SWL	3	45.15	SUMMER	32166	3RS ET
7-Jun-16	SWL	4	7.40	SUMMER	32166	3RS ET
4-Jul-16	NEL	2	3.40	SUMMER	32166	3RS ET
4-Jul-16	NEL	3	23.21	SUMMER	32166	3RS ET
4-Jul-16	NEL	4	19.39	SUMMER	32166	3RS ET
6-Jul-16	NEL	1	13.60	SUMMER	32166	3RS ET
6-Jul-16	NEL	2	14.68	SUMMER	32166	3RS ET
6-Jul-16	NEL	3	18.72	SUMMER	32166	3RS ET
7-Jul-16	AW	3	5.13	SUMMER	32166	3RS ET
7-Jul-16	WL	2	11.09	SUMMER	32166	3RS ET
7-Jul-16	WL	3	17.57	SUMMER	32166	3RS ET
7-Jul-16	SWL	2	5.16	SUMMER	32166	3RS ET
13-Jul-16	NWL	1	12.00	SUMMER	32166	3RS ET
13-Jul-16	NWL	2	66.80	SUMMER	32166	3RS ET
13-Jul-16	NWL	3	5.10	SUMMER	32166	3RS ET
14-Jul-16	AW	2	4.96	SUMMER	32166	3RS ET
14-Jul-16	WL	1	2.60	SUMMER	32166	3RS ET
14-Jul-16	WL	2	2.92	SUMMER	32166	3RS ET

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
14-Jul-16	WL	3	21.30	SUMMER	32166	3RS ET
14-Jul-16	WL	4	6.38	SUMMER	32166	3RS ET
14-Jul-16	SWL	3	7.09	SUMMER	32166	3RS ET
18-Jul-16	SWL	2	10.21	SUMMER	32166	3RS ET
18-Jul-16	SWL	3	38.54	SUMMER	32166	3RS ET
18-Jul-16	SWL	4	7.57	SUMMER	32166	3RS ET
18-Jul-16	SWL	5	2.02	SUMMER	32166	3RS ET
22-Jul-16	NWL	1	6.55	SUMMER	32166	3RS ET
22-Jul-16	NWL	2	11.58	SUMMER	32166	3RS ET
22-Jul-16	NWL	3	45.96	SUMMER	32166	3RS ET
22-Jul-16	NWL	4	13.28	SUMMER	32166	3RS ET
25-Jul-16	SWL	1	31.32	SUMMER	32166	3RS ET
25-Jul-16	SWL	2	15.35	SUMMER	32166	3RS ET
5-Aug-16	NEL	2	44.36	SUMMER	32166	3RS ET
5-Aug-16	NEL	3	2.64	SUMMER	32166	3RS ET
9-Aug-16	AW	2	4.76	SUMMER	32166	3RS ET
9-Aug-16	WL	1	8.07	SUMMER	32166	3RS ET
9-Aug-16	WL	2	16.14	SUMMER	32166	3RS ET
9-Aug-16	WL	3	3.70	SUMMER	32166	3RS ET
9-Aug-16	WL	4	1.80	SUMMER	32166	3RS ET
9-Aug-16	SWL	3	1.41	SUMMER	32166	3RS ET
9-Aug-16	SWL	4	0.77	SUMMER	32166	3RS ET
9-Aug-16	SWL	5	4.79	SUMMER	32166	3RS ET
10-Aug-16	SWL	1	14.30	SUMMER	32166	3RS ET
10-Aug-16	SWL	2	37.70	SUMMER	32166	3RS ET
10-Aug-16	SWL	3	11.10	SUMMER	32166	3RS ET
15-Aug-16	NEL	1	21.10	SUMMER	32166	3RS ET
15-Aug-16	NEL	2	26.00	SUMMER	32166	3RS ET
19-Aug-16	NWL	3	68.90	SUMMER	32166	3RS ET
19-Aug-16	NWL	4	12.60	SUMMER	32166	3RS ET
19-Aug-16	NWL	5	0.40	SUMMER	32166	3RS ET
22-Aug-16	AW	2	1.58	SUMMER	32166	3RS ET
22-Aug-16	AW	3	3.20	SUMMER	32166	3RS ET
22-Aug-16	WL	2	11.83	SUMMER	32166	3RS ET
22-Aug-16	WL	3	6.71	SUMMER	32166	3RS ET
22-Aug-16	WL	4	11.94	SUMMER	32166	3RS ET
22-Aug-16	SWL	3	0.83	SUMMER	32166	3RS ET
22-Aug-16	SWL	4	6.17	SUMMER	32166	3RS ET
24-Aug-16	NWL	1	34.84	SUMMER	32166	3RS ET
24-Aug-16	NWL	2	48.06	SUMMER	32166	3RS ET
25-Aug-16	SWL	1	11.89	SUMMER	32166	3RS ET
25-Aug-16	SWL	2	38.89	SUMMER	32166	3RS ET
25-Aug-16	SWL	3	12.60	SUMMER	32166	3RS ET

Notes:

CWD baseline monitoring surveys were conducted in July 2016 with two sets of transect surveys for all monitoring areas. The data collected was used to derive the running quarterly STG and ANI.

CWD monitoring survey data of the two preceding survey months (i.e. 18 May to 17 June 2016, and July 2016) 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.
23-May-16	1	1230	CWD	11	NWL	3	206	ON	3RS ET	22.4122	113.8810	SPRING	NONE
23-May-16	2	1310	CWD	3	NWL	3	6	ON	3RS ET	22.4033	113.8777	SPRING	NONE
24-May-16	1	1131	CWD	2	WL	3	17	ON	3RS ET	22.2234	113.8231	SPRING	NONE
24-May-16	2	1150	CWD	7	WL	2	38	ON	3RS ET	22.2196	113.8147	SPRING	NONE
24-May-16	3	1217	CWD	7	WL	2	141	ON	3RS ET	22.2141	113.8203	SPRING	NONE
24-May-16	4	1243	CWD	3	WL	2	295	ON	3RS ET	22.2143	113.8308	SPRING	NONE
24-May-16	5	1310	CWD	1	WL	2	289	ON	3RS ET	22.2055	113.8278	SPRING	NONE
24-May-16	6	1319	CWD	8	WL	2	35	ON	3RS ET	22.2044	113.8239	SPRING	NONE
24-May-16	7	1339	CWD	2	WL	2	20	ON	3RS ET	22.2184	113.8217	SPRING	NONE
24-May-16	8	1351	CWD	4	WL	2	83	ON	3RS ET	22.1959	113.8346	SPRING	NONE
24-May-16	9	1409	CWD	1	WL	3	16	ON	3RS ET	22.1871	113.8363	SPRING	NONE
24-May-16	10	1427	CWD	2	WL	2	N/A	OFF	3RS ET	22.1936	113.8471	SPRING	NONE
24-May-16	11	1451	CWD	6	SWL	3	1294	ON	3RS ET	22.1769	113.8591	SPRING	NONE
25-May-16	1	1057	FP	1	SWL	2	183	ON	3RS ET	22.1661	113.9361	SPRING	NONE
25-May-16	2	1115	FP	2	SWL	2	183	ON	3RS ET	22.1452	113.9303	SPRING	NONE
30-May-16	1	1435	CWD	1	NWL	3	60	ON	3RS ET	22.3513	113.8679	SPRING	NONE
06-Jun-16	1	1132	CWD	1	WL	2	100	ON	3RS ET	22.2503	113.8420	SUMMER	NONE
06-Jun-16	2	1303	CWD	2	WL	2	68	ON	3RS ET	22.2139	113.8138	SUMMER	NONE
06-Jun-16	3	1317	CWD	4	WL	3	227	ON	3RS ET	22.2137	113.8287	SUMMER	NONE
06-Jun-16	4	1425	CWD	1	WL	2	N/A	OFF	3RS ET	22.1914	113.8434	SUMMER	NONE
06-Jun-16	5	1431	CWD	5	SWL	2	137	ON	3RS ET	22.1912	113.8498	SUMMER	NONE
06-Jun-16	6	1509	CWD	3	SWL	3	1680	ON	3RS ET	22.1783	113.8602	SUMMER	NONE
07-Jun-16	1	1306	CWD	5	SWL	2	66	ON	3RS ET	22.2033	113.8976	SUMMER	NONE
07-Jun-16	2	1544	CWD	2	SWL	3	150	ON	3RS ET	22.2006	113.8675	SUMMER	NONE
07-Jul-16	1	1052	CWD	1	WL	2	957	ON	3RS ET	22.2504	113.8411	SUMMER	NONE
07-Jul-16	2	1113	CWD	5	WL	3	181	ON	3RS ET	22.2415	113.8463	SUMMER	NONE
07-Jul-16	3	1144	CWD	1	WL	3	91	ON	3RS ET	22.2412	113.8364	SUMMER	NONE
07-Jul-16	4	1202	CWD	4	WL	3	318	ON	3RS ET	22.2336	113.8237	SUMMER	NONE
07-Jul-16	5	1230	CWD	3	WL	2	161	ON	3RS ET	22.2324	113.8364	SUMMER	NONE
07-Jul-16	6	1311	CWD	1	WL	2	95	ON	3RS ET	22.2140	113.8301	SUMMER	NONE
07-Jul-16	7	1318	CWD	5	WL	2	19	ON	3RS ET	22.2144	113.8330	SUMMER	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
07-Jul-16	8	1341	CWD	4	WL	2	55	ON	3RS ET	22.2079	113.8398	SUMMER	NONE
07-Jul-16	9	1358	CWD	1	WL	2	100	ON	3RS ET	22.2053	113.8350	SUMMER	NONE
07-Jul-16	10	1423	CWD	1	WL	3	57	ON	3RS ET	22.1962	113.8314	SUMMER	NONE
07-Jul-16	11	1438	CWD	7	WL	3	265	ON	3RS ET	22.1959	113.8426	SUMMER	NONE
07-Jul-16	12	1535	CWD	1	SWL	2	555	ON	3RS ET	22.1825	113.8498	SUMMER	NONE
07-Jul-16	13	1601	CWD	4	SWL	2	151	ON	3RS ET	22.1909	113.8590	SUMMER	PURSE SEINE
14-Jul-16	1	1101	CWD	2	WL	4	N/A	OFF	3RS ET	22.2413	113.8425	SUMMER	NONE
14-Jul-16	2	1235	CWD	3	WL	4	186	ON	3RS ET	22.1873	113.8306	SUMMER	NONE
14-Jul-16	3	1316	CWD	1	SWL	3	N/A	OFF	3RS ET	22.1812	113.8589	SUMMER	NONE
18-Jul-16	1	1145	CWD	8	SWL	2	269	ON	3RS ET	22.1974	113.9184	SUMMER	NONE
18-Jul-16	2	1312	CWD	2	SWL	3	77	ON	3RS ET	22.1657	113.9027	SUMMER	NONE
18-Jul-16	3	1355	CWD	14	SWL	2	N/A	OFF	3RS ET	22.1988	113.8971	SUMMER	PURSE SEINE
18-Jul-16	4	1425	CWD	6	SWL	3	572	ON	3RS ET	22.1894	113.8982	SUMMER	NONE
18-Jul-16	5	1528	CWD	2	SWL	3	653	ON	3RS ET	22.2018	113.8877	SUMMER	NONE
22-Jul-16	1	0959	CWD	3	NWL	1	118	ON	3RS ET	22.3686	113.8683	SUMMER	NONE
22-Jul-16	2	1053	CWD	3	NWL	1	47	ON	3RS ET	22.3086	113.8689	SUMMER	NONE
22-Jul-16	3	1142	CWD	5	NWL	3	151	ON	3RS ET	22.2722	113.8725	SUMMER	NONE
22-Jul-16	4	1244	CWD	2	NWL	3	65	ON	3RS ET	22.3378	113.8782	SUMMER	NONE
22-Jul-16	5	1342	CWD	7	NWL	4	15	ON	3RS ET	22.3939	113.8726	SUMMER	NONE
25-Jul-16	1	1057	FP	6	SWL	1	73	ON	3RS ET	22.1659	113.9363	SUMMER	NONE
25-Jul-16	2	1109	FP	3	SWL	1	19	ON	3RS ET	22.1597	113.9357	SUMMER	NONE
25-Jul-16	3	1128	FP	1	SWL	1	72	ON	3RS ET	22.1460	113.9272	SUMMER	NONE
25-Jul-16	4	1137	FP	3	SWL	1	132	ON	3RS ET	22.1540	113.9273	SUMMER	NONE
25-Jul-16	5	1149	FP	3	SWL	1	255	ON	3RS ET	22.1686	113.9274	SUMMER	NONE
25-Jul-16	6	1347	CWD	8	SWL	2	644	ON	3RS ET	22.1845	113.8977	SUMMER	NONE
25-Jul-16	7	1441	CWD	6	SWL	1	1247	ON	3RS ET	22.2029	113.8783	SUMMER	NONE
25-Jul-16	8	1531	CWD	24	SWL	2	908	ON	3RS ET	22.1605	113.8705	SUMMER	NONE
09-Aug-16	1	1037	CWD	2	WL	1	8	ON	3RS ET	22.2625	113.8563	SUMMER	NONE
09-Aug-16	2	1047	CWD	1	WL	2	85	ON	3RS ET	22.2609	113.8515	SUMMER	NONE
09-Aug-16	3	1114	CWD	5	WL	2	98	ON	3RS ET	22.2504	113.8413	SUMMER	NONE
09-Aug-16	4	1146	CWD	3	WL	2	5	ON	3RS ET	22.2394	113.8278	SUMMER	NONE
09-Aug-16	5	1325	CWD	1	SWL	4	N/A	OFF	3RS ET	22.1936	113.8473	SUMMER	NONE
10-Aug-16	1	1059	FP	1	SWL	2	130	ON	3RS ET	22.1715	113.9353	SUMMER	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
10-Aug-16	2	1107	FP	6	SWL	2	396	ON	3RS ET	22.1624	113.9359	SUMMER	NONE
10-Aug-16	3	1116	FP	5	SWL	2	256	ON	3RS ET	22.1524	113.9356	SUMMER	NONE
19-Aug-16	1	1201	CWD	5	NWL	3	56	ON	3RS ET	22.3869	113.8890	SUMMER	NONE
19-Aug-16	2	1358	CWD	7	NWL	3	59	ON	3RS ET	22.3749	113.9066	SUMMER	NONE
22-Aug-16	1	0950	CWD	2	WL	2	N/A	OFF	3RS ET	22.3003	113.8665	SUMMER	NONE
22-Aug-16	2	1001	CWD	5	WL	3	197	ON	3RS ET	22.3023	113.8616	SUMMER	NONE
22-Aug-16	3	1046	CWD	5	WL	2	47	ON	3RS ET	22.2661	113.8592	SUMMER	NONE
22-Aug-16	4	1116	CWD	1	WL	2	213	ON	3RS ET	22.2503	113.8345	SUMMER	NONE
22-Aug-16	5	1145	CWD	1	WL	2	390	ON	3RS ET	22.2414	113.8408	SUMMER	NONE
22-Aug-16	6	1209	CWD	5	WL	2	183	ON	3RS ET	22.2367	113.8265	SUMMER	NONE
22-Aug-16	7	1237	CWD	7	WL	2	124	ON	3RS ET	22.2236	113.8369	SUMMER	NONE
22-Aug-16	8	1318	CWD	4	WL	4	245	ON	3RS ET	22.2143	113.8209	SUMMER	NONE
24-Aug-16	1	1216	CWD	6	NWL	1	32	ON	3RS ET	22.3785	113.8888	SUMMER	NONE
24-Aug-16	2	1336	CWD	1	NWL	2	27	ON	3RS ET	22.3797	113.8976	SUMMER	NONE
25-Aug-16	1	1013	CWD	1	SWL	2	N/A	OFF	3RS ET	22.1997	113.8684	SUMMER	NONE
25-Aug-16	2	1142	CWD	7	SWL	1	1303	ON	3RS ET	22.1498	113.8887	SUMMER	NONE

Abbreviations: STG# = Sighting Number; GP SZ = Dolphin 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

Notes:

CWD baseline monitoring surveys were conducted in July 2016 with two sets of transect surveys for all monitoring areas. The data collected was used to derive the running quarterly STG and ANI.

CWD monitoring survey data of the two preceding survey months (i.e. 18 May to 17 June 2016, and July 2016) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report.

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

A total of 1195.86 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 59 on-effort sightings and total number of 246 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 of Number of Dolphin Sightings (STG)

$$STG = \frac{59}{1195.86} \times 100 = 4.93$$

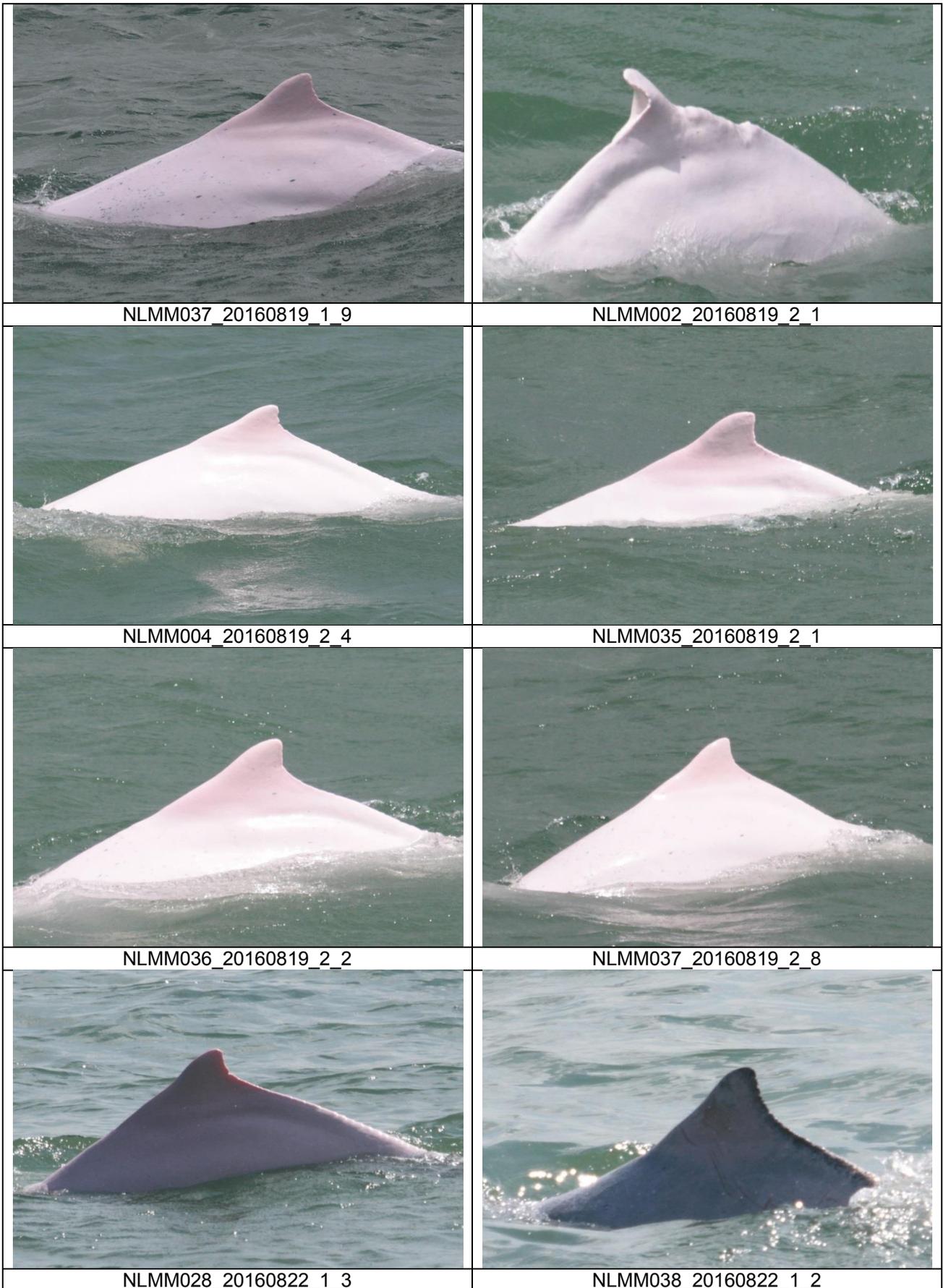
Running Quarterly Encounter Rate of Number of Dolphins (ANI)

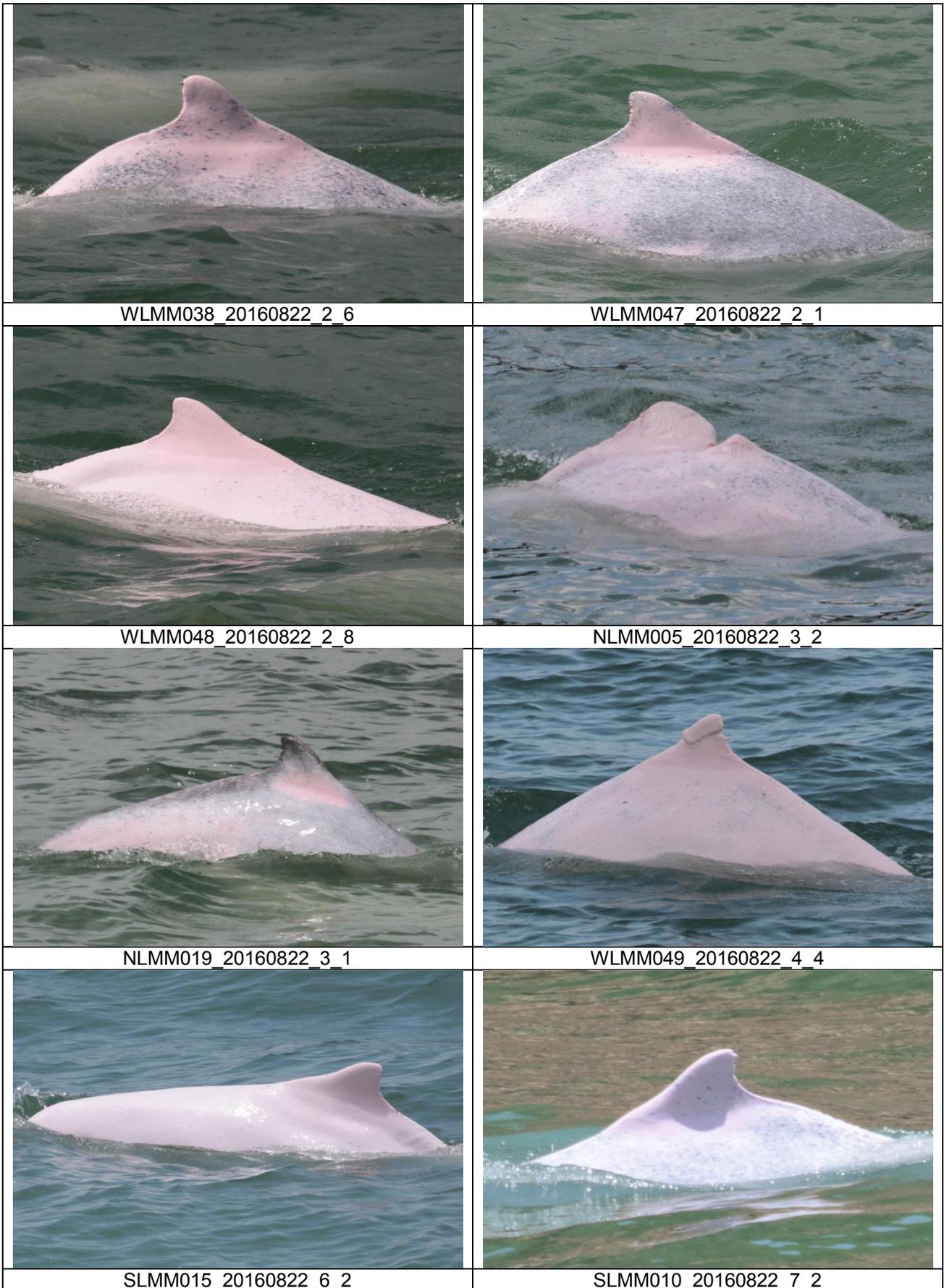
$$ANI = \frac{246}{1195.86} \times 100 = 20.57$$

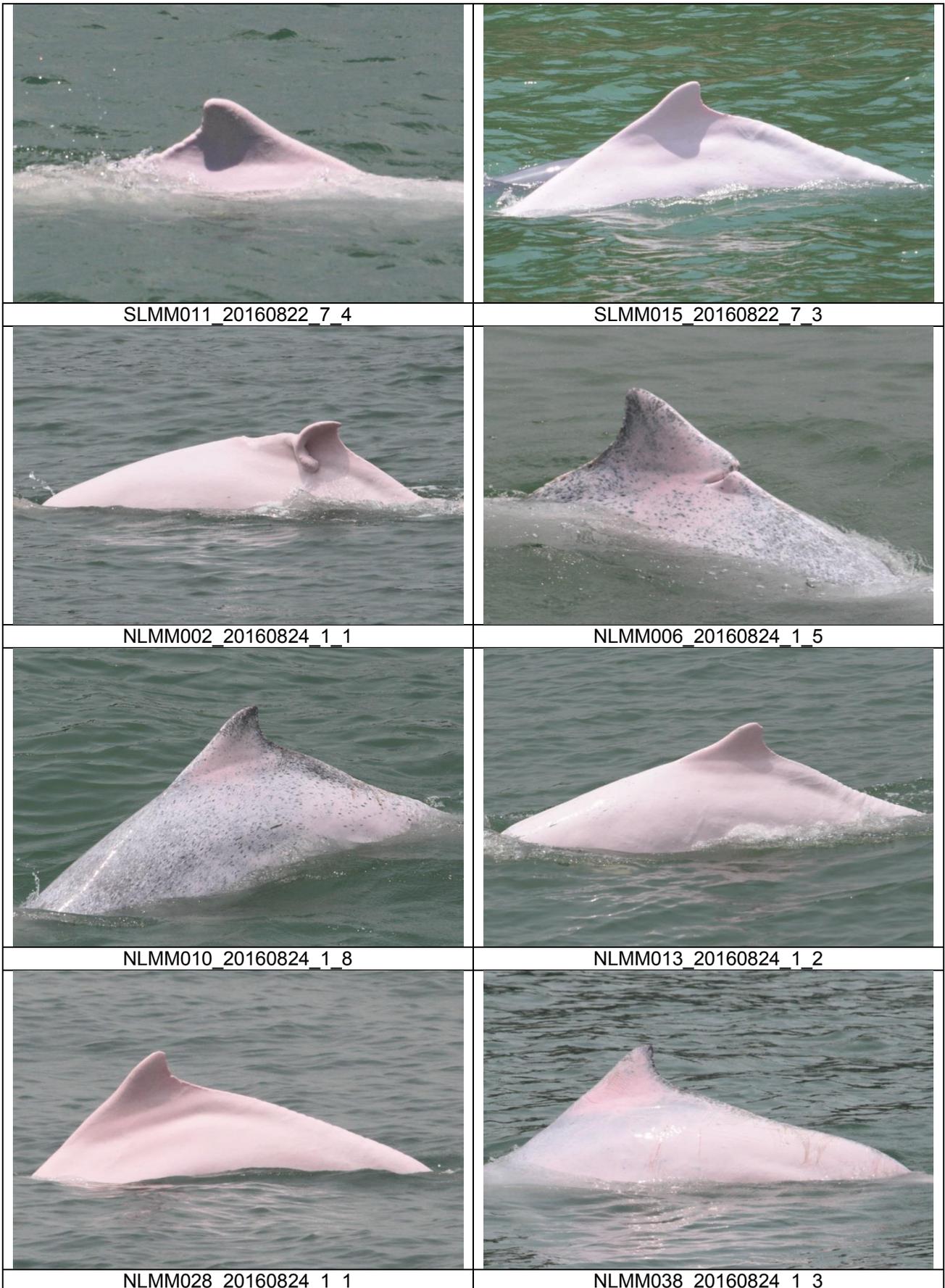
CWD Small Vessel Line-transect Survey

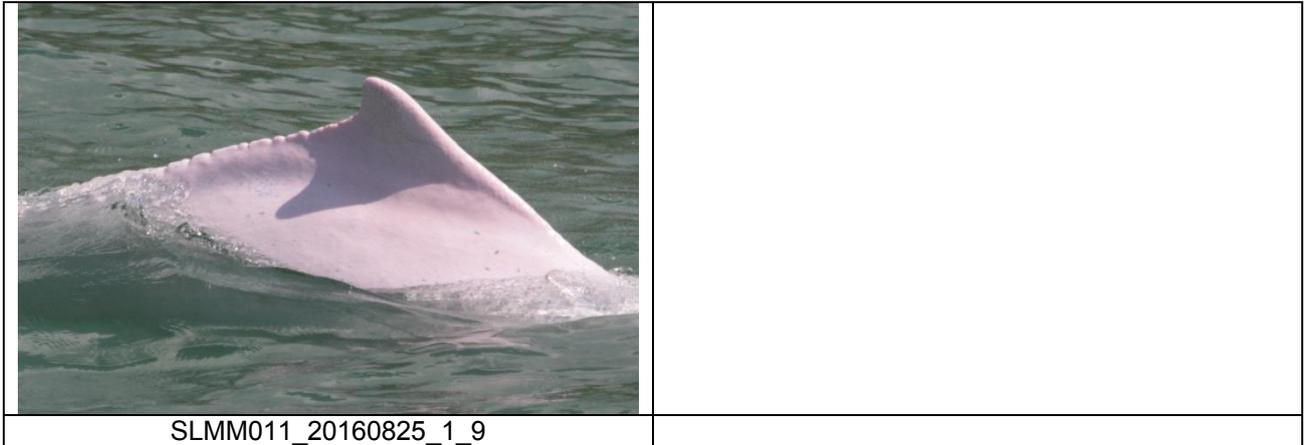
Photo Identification

	
WLMM030_20160809_1_2	WLMM043_20160809_1_9
	
WLMM046_20160809_3_3	NLMM002_20160819_1_3
	
NLMM035_20160819_1_7	NLMM036_20160819_1_3









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

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
1-Aug-16	Sha Chau	8:29	13:09	4:40	1	3-4	0	N/A
5-Aug-16	Lung Kwu Chau	8:35	14:45	6:10	2	3	8	2-6
9-Aug-16	Sha Chau	8:30	16:00	7:30	1-4	2-3	1	1
11-Aug-16	Lung Kwu Chau	8:49	14:50	6:01	2-3	2-4	3	2-3
23-Aug-16	Lung Kwu Chau	8:37	14:37	6:00	1	2-3	0	N/A

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