Appendix 5.11c

Operation Phase Water Quality Model Results at WSRs



			Δ.		A 1	A				Ι Δ	I A		10
WOD /A												Geometric Mean	
WSRs (Assessment Depth) Figure 5.1	ID	Scenarios										E. coli	
Deptil) Figure 5.1						ů			_		_	no. / 100 ml	
Flushing Water Intake (D	Oonth ave	orago)	mg/L	IIIg/L	IIIg/L	IIIg/L	110.7 100 IIIL	i ilig/L	IIIg/L	IIIg/L	IIIg/L	110.7 TOO TILL	g/m /day
Flusilling Water Illiake (L	bepui ave	WSD's Target Water Quality Objectives for Flushing Water Intakes:	\ \ \ \ \ \	z 10		z 10	<20.000	N/A	NA	NIA	NIA	NA	NA.
	I	Scenario B1 – Baseline scenario without the Project				-		NA -					
Tseung Kwan O	FW1	Scenario B7 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)								 			+
. coung		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	2.7	4.7	0.2	2.3	16892	-	-	-	-	-	-
		Scenario B1 – Baseline scenario without the Project	3.8	8.1	0.4	2.6	17352	-	-	-	-	-	-
Cha Kwo Ling	FW2	Scenario B2 – "With Project" scenario (normal operation of EPP)	Morifulan Mori										
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						-	-	-	-	-	-
Sai Wan Ho	FW3	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)						-	<u>-</u>	-	-		
Gai Waii i io	1 443	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)								 			
		Scenario B1 – Baseline scenario without the Project						-	-	-	-	-	-
Quarry Bay	FW4 FW6 average) Quality D SW1	Scenario B2 – "With Project" scenario (normal operation of EPP)	3.7		0.3	1.7	10738	-	-	-	-	-	-
	FW5 FW6 average) Quality I	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						-	-	-	-	-	-
Hann Fa Ohman	_\	Scenario B1 – Baseline scenario without the Project				_			-		-	-	-
Heng Fa Chuen	FW5 FW6 average Quality SW1 Depth ave	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)								-	-		
		Scenario B1 – Baseline scenario without the Project									-		+ -
Siu Sai Wan	FW6	Scenario B2 – "With Project" scenario (normal operation of EPP)						_	_	-	-	_	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)			0.2	1.7		-	-	-	-	-	-
Seawater Intake (Depth													
WSD's Seawater	Quality [Design Basis Value for SS / Water Quality Objectives for Eastern Buffer Water Control Zone Note (b):	NA		NA	NA	NA					NA	NA
TKO Desalination Plant	S\N/1	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-			-						-	-
THO Desamilation Flam	3001	Scenario B3 – "With Project" Scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		+	_						-	+ -
Cooling Water Intake (Do	epth ave											_	
		Assessment Criteria Note (c):	NΔ	NA	NΔ	NA	NA	NA	NA	NΑ	NΔ	NΔ	NA
		Scenario B1 – Baseline scenario without the Project						-					
ai Tak District Cooling	CW1	Scenario B2 – "With Project" scenario (normal operation of EPP)						_	_	_	_		+ -
System		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						-	-	-	-	-	-
		Scenario B1 – Baseline scenario without the Project	3.8	4.5	0.4	2.0	18061	-	-	-	-	-	-
Yau Tong Bay Ice Plant	CW2	Scenario B2 – "With Project" scenario (normal operation of EPP)			0.4			_	-	-	-	-	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						-	-	-	-	-	
T : 14 B)	014/0	Scenario B1 – Baseline scenario without the Project						_	-	-	-	-	-
Tai Koo Place	CW3	Scenario B2 – "With Project" scenario (normal operation of EPP)				-		-	-	-	-	-	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project						-	-	-	-	-	-
North Point Government	CW4	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)						-	_	<u> </u>	<u> </u>	<u>-</u> -	-
Office	000	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						_		 		-	-
Pamela Youde		Scenario B1 – Baseline scenario without the Project						_	_	-	-	_	_
Nethersole Eastern	CW5	Scenario B2 – "With Project" scenario (normal operation of EPP)						-	-	-	-	-	-
Hospital		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	3.8	3.1	0.2	1.6	8933	-	-	-	-	-	-
Gazetted Bathing Beach	(Depth									10.1	10.004	1400 (00 4 0 0	
	l	Water Quality Objectives for Southern and Port Shelter Water Control Zones: Scenario B1 – Baseline scenario without the Project		NA		NA	NA						/ NA
Big Wave Bay	B1	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)		-		_							-
big wave bay	51	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_										
		Scenario B1 – Baseline scenario without the Project	_	_		_	_						-
Rocky Bay	B2	Scenario B2 – "With Project" scenario (normal operation of EPP)	_	-	_	_	_						-
, ,		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	_						-
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-						-
Shek O	В3	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	_	-	5.5	5.6	0.2	0.0038	19	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-			0.2			-
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	5.1 5.5 0.2 0.0039 120 5.1 5.4 0.2 0.0039 124 5.1 5.4 0.2 0.0039 124 5.5 5.6 0.2 0.0038 19 5.5 5.6 0.2 0.0038 19 5.5 5.6 0.2 0.0038 19 6.7 6.7 0.1 0.0031 65	-				
Clear Water Bay First	B4	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-			1			-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-						-
0, 1, 5		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-						-
		Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-						-
Clear Water Bay Second	i	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-			-	_	6.7	6.7	0.1	0.0031	/3	
•		oth average)											
Potential Water Sports A			NΔ	NΔ	NΔ	NΔ	NΔ	> 2	> 4	<0.3	<0.021	NΔ	NΔ
•		Water Quality Objectives for Junk Bay Water Control Zone:		NA -	NA -	NA -	NA -					NA -	
•	rea (Dep			NA - -	-	- -	NA -	4.4	5.1	0.3	0.005	-	

								ter Quality Para					
			Annual	Annual	Annual	Annual	Annual	Annual		Annual	Annual	Geometric Mean	Annual Maximun
WSRs (Assessment	ID	Scenarios	Minimum	Maximum	Maximum	Maximum	Maximum	10%ile	10%ile Depth		Mean	E. coli	Sedimentation
Depth) Figure 5.1		Coordination	DO	SS	NH ₃ -N	BOD ₅	E. coli	Bottom DO			UIA		Rate
			mg/L	mg/L	mg/L	mg/L	no. / 100 mL	mg/L	mg/L	mg/L	mg/L	no. / 100 mL	g/m²/day
Secondary Contact Rec		Subzone (Depth average)	T		T	I	T		T			T	
	Wate	er Quality Objectives for Secondary Contact Recreation Subzone in Junk Bay Water Control Zone:		NA -	NA	NA	NA	≥2	≥ 4	≤0.3	≤0.021	≤610 (Annual)	NA
Junk Bay West	C1a	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	5.2 5.3	5.3	0.2	0.005 0.005	114	-
Julik day West	Cia	Scenario B2 – With Project Scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	5.4	5.5 5.5	0.2	0.005	79 79	-
		Scenario B1 – Baseline scenario without the Project	_		_	_	-	4.9	5.1	0.2	0.005	104	_
Junk Bay West	C1d	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.9	5.1	0.2	0.005	111	-
•		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		-	-	-	4.9	5.1	0.2	0.005	112	-
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.8	5.1	0.2	0.005	61	-
Junk Bay West	C1f	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.8	5.2	0.2	0.005	29	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		-	-	-	4.8	5.2	0.2	0.005	29	-
loods December 4	04	Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.9	5.2	0.2	0.005	102	-
Junk Bay West	C1g	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	5.0	5.4	0.2	0.005	63	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		-	-	-	5.0	5.4	0.2	0.005	63	-
	004	Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	5.0	5.2	0.2	0.005	54	-
Junk Bay West	CR1	Scenario B2 – "With Project" scenario (normal operation of EPP)	-		-	-	-	5.0	5.3	0.2	0.005	30	-
	<u> </u>	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	_	-	-	-	5.0	5.3	0.2	0.005	30	-
<u> </u>		cated Corals under Previous Projects (Bottom)					T	T					1122
Wat	er Qualit	y Objectives for Junk Bay Water Control Zone / Sedimentation Criterion for Benthic Communities:		NA	NA	NA	NA	≥2	≥ 4	≤0.3	≤0.021	NA	≤100
Junk Bay West	CR1	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	5.0 5.0	5.2 5.3	0.2	0.005 0.005	-	9
Julik Day West	CKI	Scenario B3 – "With Project" Scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	_	-	-	-	5.0	5.3	0.2	0.005	-	9
		Scenario B1 – Baseline scenario without the Project	_	_	_	_	-	5.1	5.2	0.2	0.005	-	7
Fai Tong Chau	CR2	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	_	-	-	-	5.1	5.2	0.2	0.005	-	7
•		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	5.1	5.2	0.2	0.005	-	7
Coral Communities (Bo	ttom)												
Water Quality Obje	ctives fo	r Junk Bay and Mirs Bay Water Control Zones / Sedimentation Criterion for Benthic Communities:	NA NA	NA	NA	NA	NA	≥ 2	≥ 4	≤0.3	≤0.021	NA	≤100
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	5.2	5.3	0.2	0.005	-	11
unk Bay West	C1a	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	<u>-</u>	-	-	-	5.3	5.5	0.2	0.005	-	14
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		-	-	-	5.4	5.5	0.2	0.005	-	14
	C1d	Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.9	5.1	0.2	0.004	-	7
Junk Bay West		Scenario B2 – "With Project" scenario (normal operation of EPP)	-		-	-	-	4.9	5.1	0.2	0.004	-	6
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		-	-	-	4.9	5.1	0.2	0.004	-	6
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.9	5.2	0.2	0.005	-	7
Junk Bay West	C1e	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.8	5.2	0.2	0.005	-	7
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.8	5.2	0.2	0.005	-	7
Lunds Days Wash	045	Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.8	5.1	0.2	0.005	-	,
Junk Bay West	C1f	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	_	-	-	-	4.8	5.2	0.2	0.005	-	8
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.8 4.9	5.2	0.2	0.005 0.005	-	9
Junk Bay West	C1g	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	5.0	5.2 5.4	0.2	0.005	-	12
Julik Day West	Cig	Scenario B3 – "With Project" Scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		-	-	-	5.0	5.4	0.2	0.006	-	12
		Scenario B1 – Baseline scenario without the Project	 -	-	 -	_	<u>-</u>	4.8	5.2	0.2	0.005	-	7
Junk Bay	C2	Scenario B7 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-		-		<u>-</u>	4.8	5.2	0.2	0.005	-	6
ourin Buy	02	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_	-	-	_	_	4.8	5.3	0.2	0.005	-	6
		Scenario B1 – Baseline scenario without the Project	_	_	_	_	_	5.2	5.5	0.2	0.004	-	5
Tung Lung Chau North	C15	Scenario B2 – "With Project" scenario (normal operation of EPP)	_	-	_	_	_	5.2	5.5	0.2	0.004	-	5
rang sang onaa maan		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_		_	_	_	5.3	5.5	0.2	0.004	-	5
		Scenario B1 – Baseline scenario without the Project	_		_	-	_	4.9	5.5	0.2	0.004	-	5
Tung Lung Chau East	C16	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.9	5.5	0.2	0.004	-	5
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.9	5.6	0.2	0.004	-	5
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	5.3	5.6	0.2	0.003	-	5
Tung Lung Chau East	C17	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-			5.3	5.6	0.2	0.003		5
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	5.3	5.6	0.2	0.003	-	5
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.4	4.9	0.3	0.006	-	8
Lohas Park	C3	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.3	4.9	0.3	0.007	-	8
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.3	4.9	0.3	0.007	-	8
Londo Labora I		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.1	4.9	0.3	0.007	-	9
Junk Island	C4	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	3.9	4.8	0.3	0.007	-	9
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_	_	-	-	-	3.9	4.9	0.3	0.007	-	9

							Wat	er Quality Para	ameters Note (a)				
			Annual	Annual	Annual	Annual	Annual	Annual		Annual	Annual	Coometrie Mean	Annual Maximum
WSRs (Assessment	ID	Scenarios	Minimum	Maximum	Maximum	Maximum	Maximum	10%ile	10%ile Depth		Mean	Geometric Mean E. coli	Sedimentation
Depth) Figure 5.1	טו	Scenarios	DO	SS	NH ₃ -N	BOD ₅	E. coli	Bottom DO	Average DO	TIN	UIA		Rate
			mg/L	mg/L	mg/L	mg/L	no. / 100 mL	mg/L	mg/L	mg/L	mg/L	no. / 100 mL	g/m²/day
Coral Communities (Bot				-	1						1		
Wate	r Quality	Objectives for Junk Bay Water Control Zones / Sedimentation Criterion for Benthic Communities:	NA	NA	NA	NA	NA	≥2	≥ 4	≤0.3	≤0.021	NA	≤100
T// 1111/07 4 D//	0.5	Scenario B1 – Baseline scenario without the Project	-		-	-	-	4.2	4.8	0.3	0.007	-	8
TKO INNOPARK	C5a	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.1	4.8	0.3	0.007	-	8
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	_	-	-	-			1		-	<u> </u>
T// 1111/07 4 D//	0.51	Scenario B1 – Baseline scenario without the Project	-	-	-	-	-					-	
TKO INNOPARK	C5b	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-					-	'
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-					-	7
TIZO INNODADIZ	05-	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-	_	-	-	-					-	7
TKO INNOPARK	C5c	Scenario B2 – With Project Scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-					•	7
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-						7
TKO INNOPARK	C5d	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-	_		-	-					-	7
110 111101 71111	Jood	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	_					-	7
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.9	5.1		0.005	-	8
Fat Tong Chau	g Chau C6a g Chau C6b Water Quality Obje m Chau C7	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.9	5.1	0.3	0.006	-	8
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-		5.1			-	8
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-					-	7
Fai Tong Chau	C6b	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-					-	7
Water Ou	ality Obje	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)		-	- N/A	-	-					-	<100
water Qu	anty Obje	ectives for Eastern Buffer Water Control Zone / Sedimentation Criterion for Benthic Communities: Scenario B1 – Baseline scenario without the Project		NA	NA	NA	NA					NA NA	
Tit Cham Chau	C7	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-	_	-	-	-					-	· ·
Tit Cham Chau	O1	Scenario B3 – "With Project" Scenario (normal operation of EFF) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-					-	
		Scenario B1 – Baseline scenario without the Project	-		-	-	-					-	
Kwun Tsai	C8	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)		_		-	-						,
wan isai	00	Scenario B3 – "With Project" Scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-			-	-			1			,
		Scenario B1 – Baseline scenario without the Project	-	_		-	-						7
Tin Ha Au	C9	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-			-	-						7
II ⊓ä Au	Ca	Scenario B3 – "With Project" Scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_	-		_				1			7
		Scenario B1 – Baseline scenario without the Project	_			_							6
Tin Ha Shan	C10	Scenario B7 – Baseline scenario Without the Froject Scenario B2 – "With Project" scenario (normal operation of EPP)					-			1			
Till Tid Offdir		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_		_	_	_			1		_	
		Scenario B1 – Baseline scenario without the Project	_		_	_	_					_	<u> </u>
Tai Miu Wan	C11	Scenario B2 – "With Project" scenario (normal operation of EPP)	_	-	_	_	_					_	
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_	-	_	_	_					-	
		Scenario B1 – Baseline scenario without the Project	_	-	_	_	_					-	-
Tung Lung Chau West	C12	Scenario B2 – "With Project" scenario (normal operation of EPP)	_	-	_	-	_			1		-	4
0 0		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.8				-	5
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-			1		-	6
Tung Lung Chau North	C13	Scenario B2 – "With Project" scenario (normal operation of EPP)	-										
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.9	5.4	0.2	0.005	-	6
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.8	5.3	0.2	0.005	-	6
Tung Lung Chau North	C14	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.8	5.4	0.2	0.005	-	6
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.8	5.4	0.2	0.005	-	6
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.3	5.2	0.2	0.003	-	3
Tung Lung Chau South	C18	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.3	5.2	0.2	0.003	-	3
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.2	5.2	0.2	0.003	-	3
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.5	5.1	0.2	0.004	-	5
Cape Collinson	C19	Scenario B2 – "With Project" scenario (normal operation of EPP)	1	-	-	-	-		5.1	0.2	0.004	-	5
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-		5.1			-	5
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-			1		-	
Cape Collinson	C20	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-			1		-	
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-					-	5
		Scenario B1 – Baseline scenario without the Project	-		-	-	-					-	
Cape Collinson	C21	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-			1		-	
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-			1		-	
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-					-	4
Tai Long Pai	C22	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-					-	
	Ì	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	1 -	-	I -	l -	1 -	4 2	5 1	0.2	0.003	I -	4

Operational Phase Water Quality Model Results at WSRs

							Wa	ter Quality Par	ameters Note (a)				
			Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Geometric Mean	Annual Maximum
WSRs (Assessment	ID	Scenarios	Minimum	Maximum	Maximum	Maximum	Maximum	10%ile	10%ile Depth		Mean	E. coli	Sedimentation
Depth) Figure 5.1	10	Sosiano	DO	SS	NH ₃ -N	BOD ₅	E. coli		Average DO		UIA		Rate
			mg/L	mg/L	mg/L	mg/L	no. / 100 mL	mg/L	mg/L	mg/L	mg/L	no. / 100 mL	g/m²/day
Coral Communities (Bot		ectives for Eastern Buffer Water Control Zone / Sedimentation Criterion for Benthic Communities:	NA	- NA	NA	NIA	NA.			<0.4	≤0.021	NA	<100
water Qu	anty Obj		NA	NA	NA	NA	NA	≥ 2 4.8	≥ 4 5.0	≤0.4 0.2	0.005	NA	≤100
Hong Kong Museum of	C27	Scenario B1 – Baseline scenario without the Project	-		-	-	-					-	7
Coastal Defence	027	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.8 4.8	5.0 5.0	0.2	0.005 0.005	-	7
Water (Quality C	bjectives for Port Shelter Water Control Zone / Sedimentation Criterion for Benthic Communities:	NA	NA	- NA	- NA	NA	4.0		≤0.1	≤ 0.021	- NA	/ ≤100
vvaler	Quality C	Scenario B1 – Baseline scenario without the Project	NA -	NA -	NA -	NA -	NA -	4.9	≥ 4 5.7	0.2	0.004	NA -	≥100
Shek Mei Tau	C23	Scenario B1 – Baseline Scenario Without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-		-	-		4.9	5.7	0.2	0.004	<u>-</u>	4
Official flag	020	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		_	_		4.9	5.7	0.2	0.004		4
		Scenario B1 – Baseline scenario without the Project	_	-	_	_	_	4.5	5.5	0.2	0.006	_	8
So Shi Tau	C24	Scenario B2 – "With Project" scenario (normal operation of EPP)	_	 -	_	_	_	4.5	5.5	0.2	0.006	_	9
oo om raa	02.	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_	-	_	_	-	4.5	5.5	0.2	0.006	_	9
		Scenario B1 – Baseline scenario without the Project	-	_	_	-	_	5.1	6.1	0.2	0.005	_	8
Tai Wan Tau	C25	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	_	-	-	-	5.0	6.1	0.2	0.005	-	8
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	_	-	-	-	5.1	6.1	0.2	0.005	-	8
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.9	5.7	0.2	0.004	-	5
Tai Hang Tun North	C26	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.9	5.7	0.2	0.004	-	5
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.9	5.7	0.2	0.004	-	5
Amphioxus (Bottom)													
Water Qu	ality Obj	ectives for Eastern Buffer Water Control Zone / Sedimentation Criterion for Benthic Communities:	NA	NA	NA	NA	NA	≥ 2	≥ 4	≤0.4	≤0.021	NA	≤100
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	5.0	5.4	0.3	0.006	-	7
Tit Cham Chau	A1	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	5.0	5.4	0.3	0.006	-	7
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	5.0	5.4	0.3	0.006	-	7
L		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.5	5.2	0.2	0.004	-	5
Tathong Channel	A2	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.6	5.2	0.2	0.004	-	5
Site of Special Scientific	Interest	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		_	-	<u>-</u>	4.6	5.2	0.2	0.004	-	5
Site of Special Scientific	interes	Water Quality Objectives for Southern Water Control Zone	NA	NA NA	NA NA	NA	NA NA	≥ 2	≥ 4	≤0.1	≤0.021	NA NA	NA NA
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.9	5.4	0.2	0.004	- NA	-
Shek O Headland	SS1	Scenario B2 – "With Project" scenario (normal operation of EPP)	_	_	-	-	-	4.8	5.4	0.2	0.004	-	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-		_	-	-	4.8	5.4	0.2	0.004	-	-
Fisheries Sensitive Rece	eivers (D	epth average)											
		Water Quality Objectives for Fish Cultere Zone in Eastern Buffer Water Control Zone	NA	NA	NA	NA	NA	≥ 2	≥ 5	≤0.4	≤0.021	≤610 (Annual)	NA
Tung Lung Chau Fish		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.8	5.4	0.2	0.004	27	-
Culture Zone	F1	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.7	5.4	0.2	0.004	27	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	NIA	-	-	-	4.8	5.4	0.2	0.004	27	-
Important Spawning		Water Quality Objectives for Eastern Buffer Water Control Zone Scenario B1 – Baseline scenario without the Project		NA	NA	NA	NA	≥ 2 4.2	≥ 4 5.0	≤0.4 0.2	≤0.021 0.003	NA	NA
Ground of Commercial	SG2	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.2	4.9	0.2	0.003	-	-
Fisheries Resources	002	Scenario B3 – "With Project" Scenario (normal operation of E117) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	_			_	_	4.0	5.0	0.2	0.003	-	_
T ICHOHOO T COOCUTOO		Water Quality Objectives for Fish Culture Zone in Port Shelter Water Control Zone	NA	NA	NA	NA	NA	≥ 2	≥ 5	≤0.1	≤0.021	≤610 (Annual)	NA
Po Toi O Fish Culture		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	6.4	6.8	0.1	0.004	2455	-
Zone	F2	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	6.4	6.8	0.1	0.004	2455	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	6.4	6.8	0.1	0.004	2455	_
Fisheries Sensitive Rece	eivers (D									T			
Important Spawning		Water Quality Objectives for Mirs Bay Water Control Zones Scenario B1 – Baseline scenario without the Project		NA	NA	NA	NA	≥2	≥ 4 5.4	≤0.3	≤0.021 0.004	NA	NA
Ground of Commercial	SG3	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	<u>-</u>	4.9 4.9	5.4	0.2	0.004	-	
Fisheries Resources	333	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	_	4.9	5.4	0.2	0.004	-	_
		Water Quality Objectives for Southern and Port Shelter Water Control Zones	NA	NA	NA	NA	NA	≥ 2	≥ 4	≤0.1	≤0.021	NA	NA
Important Spawning		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.3	5.2	0.2	0.003	-	-
Ground of Commercial	SG1	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.3	5.1	0.2	0.003	-	-
Fisheries Resources		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.2	5.2	0.2	0.003	-	-
Important Nursery	N/C4	Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.1	5.4 5.4	0.2	0.004	-	-
Ground of Commercial Fisheries Resources	NG1	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	-	-	-	-	-	4.1 4.1	5.4	0.2	0.004 0.004	-	-
Typhoon Shelter (Depth	average					<u> </u>		4.1	0.4	0.2	0.004		
Typhoon oneiter (Depth	average	Water Quality Objectives for Victoria Harbour Water Control Zone	NA	NA	NA	NA	NA	≥ 2	≥ 4	≤0.4	≤0.021	NA	NA
		Scenario B1 – Baseline scenario without the Project	-	-	-	-	-	4.8	5.0	0.3	0.008	-	-
Sam Ka Tsuen	T1	Scenario B2 – "With Project" scenario (normal operation of EPP)	-	-	-	-	-	4.8	5.0	0.3	0.008	-	-
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	<u> </u>		-	-	-	4.8	5.0	0.3	0.008	-	-
Chadad and Daldad Value		· · · · · · · · · · · · · · · · · · ·	-										· · · · · · · · · · · · · · · · · · ·

Shaded and Bolded Value

- Exceedance of Assessment Criteria

⁽a) The model results for suspended solids and salinity are compared against their respective WQOs for relevant WSRs in the subsequent pages.

⁽b) For SW1, the WSD's seawater quality design basis value is adopted as the assessment criterion for SS. The model results for SS are also compared against the WQO in the subsequent pages. For remaining parameters, the WQOs are adopted as the assessment criteria.

⁽c) There are no applicable assessment criteria for the cooling water intakes (see Secton 5.2.11).

WSRs (Assessment Depth) Figure 5.1	ID	Scenarios Water Quality Objective	Annual Maximum SS Level (mg/L)	Increase in Annual Maximum SS Level (mg/L) NA	% Increase ≤30%	Annual Mean SS Level (mg/L) NA	Increase in Annual Mean SS Level (mg/L)	% Increase ≤30%
Seawater Intake (Depth	average		1.9	-	-	0.4		
TKO Desalination Plant	SW1	Scenario B2 – "With Project" scenario (normal operation of EPP)	1.9	0.02 0.03	1.09% 1.46%	0.4	0.00	-0.75%
Gazetted Bathing Beac	h (Depth		1.9		1.40%	-		-0.46%
Big Wave Bay	B1	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	4.1 4.1	-0.03	-0.64%	0.6 0.6	0.01	1.43%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	4.1 3.0	-0.06 -	-1.33% -	0.6 0.7	0.01	1.89%
Rocky Bay	B2	Scenario B2 – "With Project" scenario (normal operation of EPP)	3.1	0.07	2.31%	0.7	0.01	0.97%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	3.2 2.1	0.14	4.76%	0.7 0.4	0.01	1.37%
Shek O	В3	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	2.0	-0.09 0.02	-4.18% 0.83%	0.4 0.4	0.00 0.01	0.98% 1.69%
		Scenario B1 – Baseline scenario without the Project	2.1 1.4	-	-	0.3	-	-
Clear Water Bay First	B4	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	1.4 1.4	0.02 -0.01	1.23% -0.69%	0.2	0.00	-0.87% -1.15%
Clear Water Bay	D.F.	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	1.6 1.7	- 0.01	- 0.71%	0.3 0.3	0.00	-0.39%
Second	B5	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	1.6	-0.02	-1.19%	0.3	0.00	-0.41%
Potential Water Sports	Area (De	pth average) Scenario B1 – Baseline scenario without the Project	3.0	-	_	0.9	_	_
Junk Bay	WS1	Scenario B2 – "With Project" scenario (normal operation of EPP)	3.1	0.15	4.93%	0.9	0.02	2.25%
Secondary Contact Rec	reation	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Subzone (Depth average)	3.1	0.15	5.00%	0.9	0.02	2.52%
Junk Bay West	C1a	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	4.5 4.2	-0.29	-6.42%	0.9 1.0	0.03	2.79%
- Land Troot	O lu	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	4.2	-0.28	-6.27%	1.0	0.03	3.00%
Junk Bay West	C1d	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	2.6 2.5	- -0.16	- -5.89%	0.6 0.6	0.01	0.86%
-		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	2.5	-0.16	-6.02%	0.6	0.01	1.22%
Junk Bay West	C1f	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	2.7 2.5	-0.15	-5.69%	0.7 0.7	-0.03	-3.84%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	2.5 3.9	-0.15 -	-5.54% -	0.7 0.9	-0.02	-3.52%
Junk Bay West	C1g	Scenario B2 – "With Project" scenario (normal operation of EPP)	3.5	-0.40	-10.20%	0.9	0.03	3.77%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	3.5 3.0	-0.40 -	-10.25% -	0.9 0.7	0.03	3.98%
Junk Bay West	CR1	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	2.7 2.7	-0.27 -0.27	-9.23% -9.17%	0.7 0.7	-0.02 -0.02	-3.37% -3.09%
Coral Recipient Sites fo	r Transl	ocated Corals under Previous Projects (Bottom)		0.27	0.1770		0.02	0.0070
Junk Bay West	CR1	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	5.2 6.2	1.00	19.24%	0.7 0.7	-0.02	-2.90%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	6.2 3.0	1.00	19.31%	0.7 0.6	-0.02	-2.56%
Fai Tong Chau	CR2	Scenario B2 – "With Project" scenario (normal operation of EPP)	3.0	0.00 0.00	-0.09% -0.02%	0.6	0.01 0.02	2.41%
Coral Communities (Bo	ottom)	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	3.0	0.00	-0.02%	0.6	0.02	2.75%
Junk Bay West	C1a	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	7.3 7.5	0.23	3.15%	1.0 1.0	0.03	3.62%
,		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	7.5 2.3	0.21	2.84%	1.0 0.5	0.04	3.84%
Junk Bay West	C1d	Scenario B2 – "With Project" scenario (normal operation of EPP)	2.3	-0.11	-4.63%	0.5	0.00	0.06%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	2.2	-0.09	-3.84%	0.5 0.5	0.00	0.49%
Junk Bay West	C1e	Scenario B2 – "With Project" scenario (normal operation of EPP)	2.2	-0.10	-4.37%	0.5	0.01	2.43%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	2.2	-0.08	-3.50%	0.5	0.02	2.90%
Junk Bay West	C1f	Scenario B2 – "With Project" scenario (normal operation of EPP)	2.5 2.4	-0.15	-5.85%	0.6 0.6	-0.01	-1.58%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	2.4	-0.14	-5.55%	0.6	-0.01	-1.18%
Junk Bay West	C1g	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	6.2 6.5	0.28	4.50%	0.8	0.03	3.77%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	6.5	0.28	4.51%	0.9	0.03	4.00%
Junk Bay	C2	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	2.6 2.2	-0.37	-14.57%	0.5 0.5	0.01	1.60%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	2.2 1.6	-0.37 -	-14.42% -	0.5 0.3	0.01	2.06%
Tung Lung Chau North	C15	Scenario B2 – "With Project" scenario (normal operation of EPP)	1.6	-0.03 -0.01	-1.81% -0.94%	0.3	0.00 0.00	-1.64%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	1.6 1.2	-	-	0.3 0.2	-	-1.34% -
Tung Lung Chau East	C16	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	1.1 1.1	-0.07 -0.09	-6.07% -7.27%	0.2 0.2	0.00	-0.28% 0.15%
Tung Lung Chau East	C17	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	1.2 1.2	0.02	1.96%	0.2	0.00	-0.06%
Lang Onau Last	317	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	1.2	-0.02	-1.76%	0.2	0.00	0.54%
Lohas Park	С3	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	3.4 3.3	-0.05	-1.36%	0.8 0.8	0.00	-0.06%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	3.3 4.6	-0.05	-1.55% -	0.8 0.7	0.00	0.25%
Junk Island	C4	Scenario B2 – "With Project" scenario (normal operation of EPP)	4.6	-0.04	-0.95%	0.7	0.00	0.23%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	4.6 5.6	-0.02 -	-0.42%	0.7 0.9	0.00	0.57%
TKO INNOPARK	C5a	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	5.7	0.10 0.09	1.76% 1.60%	0.9	0.01 0.01	0.75% 1.01%
		Scenario B1 – Baseline scenario without the Project	5.7 3.1	-		0.9 0.7	-	-
TKO INNOPARK	C5b	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	3.2	0.15 0.16	4.98% 5.36%	0.7 0.7	0.01 0.01	0.74% 1.07%
TIO INDODATE	05	Scenario B1 – Baseline scenario without the Project	3.1	-	-	0.7	-	-
TKO INNOPARK	C5c	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	3.0	-0.06 -0.06	-1.80% -1.80%	0.7 0.7	0.00 0.01	0.66% 0.99%
TKO INNOPARK	C5d	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	3.1 3.2	0.03	- 1.05%	0.6 0.6	0.00	0.32%
INTOLANT	550	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	3.2	0.05	1.55%	0.7	0.00	0.52 %
Fat Tong Chau	C6a	Scenario B1 – Baseline scenario without the Project Scenario B2 – "With Project" scenario (normal operation of EPP)	3.2 3.1	- -0.05	-1.49%	0.8 0.8	0.01	0.94%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	3.1	-0.04	-1.38%	0.8	0.01	1.29%
Coral Communities (Bo	Julioni)	Scenario B1 – Baseline scenario without the Project	3.3			0.7	_	_
Fai Tong Chau	C6b	Scenario B2 – "With Project" scenario (normal operation of EPP)	3.2	0.07	0.58%	0.7	0.01	0.68%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Scenario B1 – Baseline scenario without the Project	3.3 2.1	-0.15 -	-1.28% -	0.7 0.5	0.01	0.56%
		, and the second				٠.٠	1	
Tit Cham Chau	C7	Scenario B2 – "With Project" scenario (normal operation of EPP) Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	2.0	-0.04 -0.04	-2.02% -2.14%	0.5 0.5	0.00 0.01	0.85% 1.12%

WSRs (Assessment Depth) Figure 5.1	ID	Scenarios	Annual Maximum SS Level (mg/L)	Increase in Annual Maximum SS Level (mg/L)	% Increase	Annual Mean SS Level (mg/L)	Increase in Annual Mean SS Level (mg/L)	% Increase
Coral Communities (Be	ottom)	Water Quality Objective	NA	NA	≤30%	NA NA	NA NA	≤30%
,		Scenario B1 – Baseline scenario without the Project	2.5	-	-	0.4	-	-
Kwun Tsai	C8	, , , , , , , , , , , , , , , , , , ,						
		Scenario B1 – Baseline scenario without the Project	4.1	-	-	0.4	-	-
Tin Ha Au	C9	Scenario B2 – "With Project" scenario (normal operation of EPP)	4.2	0.07	1.68%	0.4	-0.01	-2.30%
Tin Ha Shan	C10	Scenario B2 – "With Project" scenario (normal operation of EPP)	1.9	0.02	1.15%	0.3	-0.01	-2.55%
Description of the communities (bettern) Control Communities	0.00		0.3	-0.01	-2.28%			
Tai Miu Wan	C11		Security Company Com					
				0.03	1.68%		0.00	-0.80%
Tung Lung Chau Wost	C12	Name	- 0.760/					
Turig Lurig Criau West	012				Name Name			
T	040	Beautiful Beau	- 0.500/					
Tung Lung Chau North	C13							
		Scenario B1 – Baseline scenario without the Project	1.7	-	-	0.3	-	-
Tung Lung Chau North	C14							
				0.03	1.00%		0.00	0.13%
Tung Lung Chau South	C18			0.01	0.55%		0.00	0.96%
				-0.06	-3.84%		0.00	2.10%
Cone Callin	040			- 0.05	- 2 600/		- 0.04	1 500/
Cape Collinson	C19							
				-	-		-	-
Cape Collinson	C20							
	poral Communities (Bottom) wun Tsai Casenar wun Tsai Casenar Scenar Scen			0.01	0.72%		0.01	3.17%
Cape Collinson	C21			0.02	1.41%		0.00	1.59%
				0.02	1.53%		0.01	2.73%
Tai Long Pai	Caa			- 0.01	- 0.71%		- 0.00	- 0.82%
Tai Long Fai	022							
Hong Kong Museum of			3.2	-		0.6	-	-
la " = ".	02.	· · · · · · · · · · · · · · · · · · ·						
				0.00	0.00%		0.01	0.96%
Shek Mei Tau	C23			0.04	3.21%		0.00	-0.42%
				-0.04	-3.25%		Mean SS Inc	-0.08%
So Shi Tau	C24			- 0.00	-0.06%		Mean SS Inc Level (ma/L) NA 2	-0 44%
OO OIII Taa	024							
			3.0	-		0.2	-	-
Tai Wan Tau	C25							
	unities (Bottom Scenario B1 - Beardine scenario whost the Project Scenario B1 - White Project Scenario was 2-bour emergency descharge in both dry and was seasons) Scenario B1 - White Project Scenario was 2-bour emergency descharge in both dry and was seasons) Scenario B1 - White Project Scenario was 2-bour emergency descharge in both dry and was seasons) Scenario B1 - White Project Scenario was 2-bour emergency descharge in both dry and was seasons) 101 Scenario B1 - White Project Scenario was 2-bour emergency descharge in both dry and was seasons) 102 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 103 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 104 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 105 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 106 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 107 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 108 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 109 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 100 Scenario B1 - White Project Scenario (was 2-bour emergency descharge in both dry and was seasons) 101 Scenario B1 - Seasons scenario (was 2-bour emergency descharge in both dry and was seasons) 101 Scenario B1 - Seasons scenario (was 2-bour emergency descharge in both dry and was seasons) 101 Scenario B1 - Seasons scenario (was 2-bour emergency descharge in both dry and was seasons) 101 Scenario B1 - Seasons scenario was 2-bour emergency descharge in both dry and was seasons) 101 Scenario B1 -							
Tai Hang Tun North	C26							
Amphioxus (Bottom)		Scenario B3 – "With Project" Scenario (with 2-nour emergency discharge in both dry and wet seasons)	1.0	-0.02	-1.56%	0.1	0.00	-0.20%
•				-				
Tit Cham Chau	A1							
		Scenario B1 – Baseline scenario without the Project		-	-		-	-
Tathong Channel						1		
Site of Special Scientifi	A Secretary S.F Beserine secretary without the Provect. C.S. Secretary S.F Beserine secretary without the Provect. C.S. Secretary S.F White Project's deviated informal operation of EPT? Secretary S.F White Project's deviated informal operation of EPT? Secretary S.F White Project's deviated informal operation of EPT? Secretary S.F White Project's deviated provided in the Project of Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 4.1 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 4.1 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 4.1 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.9 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.9 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.9 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.9 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.9 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.9 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.0 (a. 0.55) Secretary S.F White Project's Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.0 (a. 0.55) Secretary S.F Seasons Secretary Newton Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.0 (a. 0.05) Secretary S.F Seasons Secretary Newton Secretary (with 2 hour emergency discharge in both day and wet seasons) 1.0 (a. 0.05) Secretary S.F Seasons Secretary Newton Secretary (with Sec	0.16	9.27%	0.3	0.01	2.20%		
		Scenario B1 – Baseline scenario without the Project		-	-		-	-
Shek O Headland	SS1					-		
Fisheries Sensitive Rec	ceivers (E		1.0	0.01	0.07 70	0.4	0.01	1.7770
		Scenario B1 – Baseline scenario without the Project	Name	-	-			
						-		
Fisheries Sensitive Rec			2.1	0.17	7.0170	0.4	0.01	2.0070
Important Spawning		Scenario B1 – Baseline scenario without the Project		-	- 0.070/		-	- 0.070/
	SG2					1		
				-	-		-	-
	F2							
				-0.03	-0.48%		0.00	-U.10% -
	SG3	Scenario B2 – "With Project" scenario (normal operation of EPP)		-0.04	<u>-2.37%</u>		-0.01	-2.1 _{7%}
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)					0.00	-1.83%
	SG1						0.00	0.86%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	1.6			0.2		
, ,	NIC4							- -0 690/
	เทษใ							
	h average		0.8		/-	V. I		2
Sam Ka Tauan	T4			- 0.06				
Jani Na TSUEN								
		,	U. I			1.4		20.20.79

Reconstruction of the company of t	WSRs (Assessment Depth) Figure 5.1	ID	Scenarios Water Quality Objective	Annual Maximum Salinity Level (not) NA	Increase In Annual Maximum Salinity Level NA	% Change ±10%	Annual Mean Salinity Level (not) NA	Increase In Annual Mean Salinity Level (nnt) NA	
Modern Service Service Modern Serv	Seawater Intake (Depth	average	e)			±10%		1	±10%
Second	TKO Desalination Plant	SW1	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.1	0.02		33.4	0.02	
18-79-16 19	Gazetted Bathing Beac	h (Depti	n average)		0.00	0.17 /0	•	0.01	0.0370
Secretary Best Descript D	Big Wave Bay	B1	Scenario B2 – "With Project" scenario (normal operation of EPP)	33.8			33.0		
Second Column Col			Scenario B1 – Baseline scenario without the Project	33.9	-	-	33.0	-	-
Page	Rocky Bay	B2							
Security Conf. Conf. 18	0 0	D0	Scenario B1 – Baseline scenario without the Project	33.9	-	-	33.1	-	-
Committee Process Pr	Shek O	В3	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	33.9			33.1		
Control 12 With Project State Control 12 With Project State	Clear Water Bay First	B4							
Committed Fig. Fig. Committed Co	oreal trater bay the		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	34.0			33.3		
Note	Clear Water Bay	B5	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.0		_	33.3		
The Secretary Control Revenues on Transport Secretary Control Revenues Con		Area (D		34.0	-0.01	-0.03%	33.3	0.00	0.00%
According			Scenario B1 – Baseline scenario without the Project			- 0.04%		- 0.01	- 0.04%
UN Ser West C1	-		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						
Standard RES - Vill Project Standards (with 2-form annegative directary in the form of and read management of the company of	Secondary Contact Rec	creation		33.9	-	T -	32.8	-	-
In the Rey West Co.	Junk Bay West	C1a							
Secretar R. Secretar R. Secr			Scenario B1 – Baseline scenario without the Project	33.9	-	-	33.2	-	-
Committee Comm	Junk Bay West	C1d							
Secretic St. "Vizz Proport Socratio (St. Fuzz Proport Socratio (St.	lunk Bay West	C1f	Scenario B1 – Baseline scenario without the Project	33.9	-	-	33.1	-	-
Comparison Com	Julik Bay West	CII	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						
Secretary ED - Will Project Source (part I) Four energency discharge in both day and well seasons) 33 0.05 0.05% 328 0.05 0.05%	Junk Bav West	C1a			- -0.03				-0.15%
Semant SE - With Project Security SE - With Pr	January 11 des	0.9	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	33.9	-0.03	-0.08%	32.8	-0.06	-0.18%
Comparison Com	Junk Bay West	CR1							
Sometive B 1 - Besidence scenario without the Project For Schmade S 2 - Whith Project Schmade (1979) For Schmade S 3 - Whith Project Schmade (1979) For Schmade S 3 - Whith Project Schmade (1979) For Schmade S 3 - Whith Project Schmade (1979) For Schmade S 3 - Whith Project Schmade (1979) For Schmade S 3 - Whith Project Schmade (1979) For Schmade S 3 - Whith Project Schmade (1979) For Schmade S 3 - Whith Project Schmade (1979) For Schmade S 3 - Whith Project Schmade (1972) For Schmade S 3 - Whith	Coral Recipient Sites for	or Trans		33.9	-0.02	-0.05%	33.0	0.01	0.02%
Sonanto S3 - "With Project" Scientific Page 17 Sonanto (part 2-hour energy and scheage in both day and wet seasons) 3.3 ft			Scenario B1 – Baseline scenario without the Project		-	-		-	-
Secretar D2 - With Project Secretar (common agreement of EPP)	Junk Bay West	CR1	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						
	Fai Tong Chau	CR2			0.05	0.16%		0.01	0.02%
	, and the second					_			-0.01%
	Corar Communities (BC	ottoiii)	Scenario B1 – Baseline scenario without the Project	33.9	-	-	32.9	-	-
Semario B - Baseline scenario without the Project 34,1 - - 33,4 - - - 33,4 - - - 33,4 - - - - 33,4 - - - - - -	Junk Bay West	C1a		33.9		ļ	1		
Link Bay West C16 Semante B2 — With Project Scansing (with 2-hour emergency discharge in both dry and west seasons) 34,1 0.01 0.03% 33,4 0.01 0.03% 0.00%									-0.16%
Scenario B I - Baseline scenario without the Project 34.0 - 33.3 -	Junk Bay West	C1d	·						0.03%
Committed Comm					0.01	0.03%	Ĭ .	0.00	0.00%
Scenario B3 - With Project* Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34,1 0.03 0.09% 33,3 0.01 0.02%	Junk Bav West	C1e	·		0.00	0.01%		0.00	0.01%
Coling Securation Coling	,								
Scenario B3 - With Project Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34,0 0.03 0.10% 33,2 0.00 0.00%		046	·		-	-	1	-	-
Lunk Bay West C1g Scenario B - With Project Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - With Project Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenario B - Selectific Scenario (wtth 2-brown emergency discharge in both dry and wet seasons) Scenari	Junk Bay West	CIT					i e		
Scenario B3 - With Project Scenario (with 2-hour emergency discharge in both dry and wet seasons) 3,3 g -0.03 -0.05 32,9 -0.04 -0.13%			Scenario B1 – Baseline scenario without the Project	33.9	-	-	33.0	-	-
Link Bay C2 Scenario B1 - Baseline scenario without the Project 34.1 33.4 - 33.4 - - - 33.4 - - - 33.4 - - - - 33.4 - - - - 33.4 - - - - - - 33.4 - - - - - - - - -	Junk Bay West	C1g						+	
Scenario B3 - With Project Scenario without the Project Scenario B3 - With Project Scenario B4 - Scenario B5 - Scenario B5 - Scenario B5 - Scenario B5 - Scenario B6 - Scenario B6 - Scenario B6 - Scenario B6 - Scenario B7 - Scenario B8 - With Project Scenario Without the Project B7 - Scenario B7 - Scenario B8 - With Project Scenario Without the Project B7 - Scenario B7 - With Project Scenario Without B7 - Scenario B7 - With Project Scenario Without B7 - Scenario B7 - With Project Scenario Without B7 - Scenario B7 - With Project Scenario Without B7 - Scenario B7 - With Project Scenario Without B7 - Scenario B7 - With Project Scenario Without B7 - Scenario Wi			Scenario B1 – Baseline scenario without the Project	34.1	-	-	33.4	-	-
Secario B Baseline scenario without the Project 34.1 0.00 0.01% 33.4 0.01 0.04%	Junk Bay	C2							
Scenario B3 - With Project' Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34.2 0.00 0.01% 33.4 0.00 0.01% 0.02% 0.01% 0.02% 0.00% 0.01% 0.02% 0.00% 0.0	Tung Lung Chau North	C15	Scenario B1 – Baseline scenario without the Project		- 0.00	- 0.01%		- 0.01	- 0.04%
Communities	Tung Lung Chau North	C13	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)						
Scenario B3 - With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34.2 0.00 0.01% 33.5 0.00 -0.01%	Tung Lung Chau Fast	C16			- 0.00	- 0.00%		- 0.01	0.02%
Scenario B2 — With Project" scenario (normal operation of EPP) 34.1 0.00 -0.01% 33.4 0.01 0.02% 0.02% 0.00%	Tang Lang Onda Laot	0.10	Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	34.2			33.5		
Scenario B3 - "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34.1 0.01 0.02% 33.4 0.00 0.00%	Tung Lung Chau East	C17	·		0.00	-0.01%		0.01	0.02%
Coase Park Coase Scenario B2 - "With Project" scenario (normal operation of EPP) 34.0 -0.01 -0.03% 33.1 0.01 0.02% 33.2 -0.01% 33.1 0.00 -0.01% 33.1 0.00 -0.01% 33.1 0.00 -0.01% 33.2 -0.01% 33.2 -0.01% 33.2 -0.01% 33.2 -0.01% 33.2 -0.01% 33.2 -0.01% 33.2 -0.01% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% 33.2 -0.02% -0.05% 33.2 -0.02% -0.05% 33.2 -0.02% -0.05% -0.0			Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	34.1	0.01	0.02%	33.4	0.00	
Scenario B3 - "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34,0 0.01 0.04% 33.1 0.00 0.01% Junk Island C4 Scenario B2 - "With Project" scenario (normal operation of EPP) 34.0 0.01 0.02% 33.2 0.02 0.05% Scenario B3 - "With Project" Scenario (mith 2-hour emergency discharge in both dry and wet seasons) 34.0 0.05 0.14% 33.2 0.01 0.02% Scenario B3 - "With Project" Scenario (mormal operation of EPP) 34.0 0.05 0.14% 33.2 0.01 0.02% Scenario B3 - "With Project" Scenario (mormal operation of EPP) 33.9 0.00 0.00% 33.0 0.00 0.00% Scenario B3 - "With Project" Scenario (normal operation of EPP) 34.0 0.05 0.14% 33.2 0.01 0.03% Scenario B3 - "With Project" Scenario (mith 2-hour emergency discharge in both dry and wet seasons) 33.9 0.04 0.12% 33.0 0.01 0.03% Scenario B3 - "With Project" Scenario (mith 2-hour emergency discharge in both dry and wet seasons) 34.0 0.0 0.03% 33.2 0.00 0.01% Scenario B3 - "With Project" Scenario (mormal operation of EPP) 34.0 0.01 0.03% 33.2 0.00 0.01% Scenario B3 - "With Project" Scenario (mormal operation of EPP) 34.0 0.01 0.03% 33.2 0.00 0.01% Scenario B3 - "With Project" Scenario (mormal operation of EPP) 34.0 0.01 0.04% 33.2 0.00 0.01% Scenario B3 - "With Project" Scenario (mormal operation of EPP) 34.1 0.05 0.14% 33.2 0.01 0.02% Scenario B3 - "With Project" Scenario (mormal operation of EPP) 34.1 0.05 0.14% 33.2 0.01 0.03% Scenario B3 - "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34.1 0.05 0.14% 33.2 0.01 0.03% Scenario B3 - "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34.1 0.05 0.14% 33.2 0.01 0.03% Scenario B3 - "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34.1 0.05 0.14% 33.2	Lohas Park	C3							0.02%
Scenario B2 - "With Project" scenario (normal operation of EPP) 34.0 0.01 0.02% 33.2 0.02 0.05%			Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	34.0	0.01		33.1	0.00	-0.01%
Scenario B3 - "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) 34.0 0.05 0.14% 33.2 0.01 0.02%	Junk Island	C4							0.05%
Scenario B2 - "With Project" scenario (normal operation of EPP) 33.9 0.00 0.00% 33.0 0.00 0.00% 0.									0.02%
Scenario B1 - Baseline scenario without the Project 34.0 - - 33.2 - -	TKO INNOPARK	C5a	Scenario B2 – "With Project" scenario (normal operation of EPP)	33.9	0.00	0.00%	33.0	0.00	
Scenario B2 - "With Project" scenario (normal operation of EPP) 34.0 0.01 0.03% 33.2 0.00 0.01%					0.04	0.12%			-0.03%
Scenario B1 - Baseline scenario without the Project 34.0 - - 33.2 - -	TKO INNOPARK	C5b	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.0			33.2	0.00	
C5C Scenario B2 - "With Project" scenario (normal operation of EPP) 34.0 0.01 0.04% 33.2 0.00 0.01%									-0.02%
Scenario B1 - Baseline scenario without the Project 34.1	TKO INNOPARK	C5c	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.0	0.01	0.04%	33.2	0.00	
Composition					0.05	0.14%		-0.01	-0.02%
Coral Communities (Bottom) Fat Tong Chau Scenario B1 – Baseline scenario without the Project 34.0 - - 33.1 - - Fat Tong Chau Scenario B2 – "With Project" scenario (normal operation of EPP) 34.1 0.05 0.16% 33.1 0.00 0.01%	TKO INNOPARK	C5d	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.1			33.3		
Scenario B1 - Baseline scenario without the Project 34.0	Coral Communities (Bo	ottom)		34.1	0.04	U.12%	33.3	0.00	0.00%
		•			- 0.05	- 0.16%		- 0.00	0.01%
						_			-0.02%

Depth) Figure 5.1	ID	Scenarios	Maximum Salinity Level (ppt)	Annual Maximum Salinity Level	% Change	Mean	Annual Mean	
Coral Communities (Re	ottom)	Water Quality Objective	NA	NA NA	±10%	NA	NA	±10%
Corar Communities (DC		Scenario B1 – Baseline scenario without the Project	34.0	-	-	33.1	-	-
Fai Tong Chau	C6b	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.0	0.03	0.10%	33.1	0.00	0.01%
	1			0.08	0.23%		-0.01	-0.02%
Tit Cham Chau	C7	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.4	0.01	0.03%	33.5	0.01	0.02%
				0.04	0.12%		0.00	-0.01%
Kwun Tsai	C8	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.2	0.03	0.10%	33.2	Salinity Level (nort) NA - 0.00 -0.01 -0.01 -0.02 -0.02 -0.01 -0.02 -0.01 -0.02 -0.01 -0.02 -0.01 -0.02 -0.01 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.01 -0.02 -0.01 -0.01 -0.02 -0.01 -0.01 -0.02 -0.01 -0.	0.07%
		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	34.2	0.02	0.07%	33.2	0.01	0.04%
Tin Ho Au	CO			- 0.04	0.12%			- 0.06%
тіп па Ай	C9			0.03	0.09%			0.03%
		Scenario B1 – Baseline scenario without the Project	34.3	-	-	33.4	-	-
Tin Ha Shan	C10							
		Scenario B1 – Baseline scenario without the Project	Securities Sec					
Tai Miu Wan	Acception Figure 5.1 Al Communities (Bottom) Tong Chau Cham Cha	Scenario B2 – "With Project" scenario (normal operation of EPP)						
		Processor Proc	0.01%					
Tung Lung Chau West	Security	0.04%						
								0.01%
Tung Lung Chau North	Security Regime 14 1 Security Regime 15 Security Security Regime				0.05%			
3 3 -		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)		0.00	0.00%	33.4	0.01	
Tung Lung Chau North	C14				0.02%		0.02	0.05%
rang Lung Chau Νοπή	014							1
		Scenario B1 – Baseline scenario without the Project	34.2	-	-	33.6	-	-
Tung Lung Chau South	C18	· · · · · · · · · · · · · · · · · · ·						
	1	· · · · · · · · · · · · · · · · · · ·		0.00	0.01%		0.00	-0.01%
Cape Collinson	C19			0.00	0.00%		0.00	-0.01%
•				0.00	0.01%		-0.01	-0.04%
Cane Collinson	C20							
Cape Collinson	020							
			34.2	-	-	33.5	-	-
Cape Collinson	C21							
		Scenario B1 – Baseline scenario without the Project		-	-		Annual Mean Salinity Level (npt) NA - 0.00 -0.01 - 0.01 0.00 -0.01 - 0.02 0.01 - 0.02 0.01 - 0.02 0.01 - 0.02 0.01 - 0.02 0.01 - 0.02 0.01 - 0.01 0.00 - 0.01 0.00 - 0.01 - 0.000 - 0.01 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 -	-
Tai Long Pai	C22					1	Annual Mean Salinity Level (nort) NA	+ +
					0.01%			-0.02%
Hong Kong Museum of	C27				0.07%			0.02%
Coastal Defence		· · · · · · · · · · · · · · · · · · ·		0.03	0.09%		0.00	0.00%
Shak Mai Tau	Caa				0.00%		- 0.01	- 0.02%
Stiek ivier rau	C23							
		### Charling Objective NA		-				
So Shi Tau	C24							
	1							
Tai Wan Tau	C25	Scenario B2 – "With Project" scenario (normal operation of EPP)		0.00		33.3		0.03%
Tai Hang Tun North	C26							
-				0.00	0.00%		0.00	
Amphioxus (Bottom)	1	Scenario R1 – Raseline scenario without the Project	35.6	_		34.3	<u> </u>	_
Tit Cham Chau	A1	Scenario B2 – "With Project" scenario (normal operation of EPP)	35.6	0.01		34.3		
								0.02%
Tathong Channel	A2	Scenario B2 – "With Project" scenario (normal operation of EPP)						0.00%
014		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	34.2	0.00	0.01%	33.5	-0.01	-0.02%
Site of Special Scientif	ic interes		34.0	-	_	33.3	<u> </u>	_
Shek O Headland	SS1	Scenario B2 – "With Project" scenario (normal operation of EPP)	34.0			33.3		
Fisheries Sensitive Rec	ceivers (Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons) Depth average)	34.0	0.00	0.00%	33.3	0.00	-0.01%
		Scenario B1 – Baseline scenario without the Project						
Culture Zone	F1							
Important Spawning		, , , , , , , , , , , , , , , , , , ,		-			-	-
Ground of Commercial	SG2	Scenario B2 – "With Project" scenario (normal operation of EPP)						
Fisheries Resources				0.04	0.12%		0.00	-0.01%
Po Toi O Fish Culture	F2			0.00	0.00%		0.01	0.03%
Zone		Scenario B3 – "With Project" Scenario (with 2-hour emergency discharge in both dry and wet seasons)	33.8	-0.01	0.12% 33.5 0.00 - 33.2 - 0.10% 33.2 0.01 - 33.3 0.01 - 33.3 0.01 - 33.3 0.02 0.09% 33.3 0.01 - 33.4 - 0.04% 33.4 0.02 0.03% 33.5 0.01 - 33.5 - 0.04% 33.5 0.01 - 33.5 - 0.01 0.08% 33.5 0.00 - 33.5 0.00 - 33.4 0.02 0.00% 33.4 0.01 - 33.5 0.00 - 33.5 0.00 - 33.4 0.01 - 33.5 0.00 - 33.4 0.01 - 33.5 0.00 - 33.4 0.01 - 33.5 0.00 - 33.4 0.01 - 33.5 0.00 - 33.4 0.01 - 33.5 0.00 - 33.4 0.01 - 33.5 0.02 0.00% 33.4 0.01 - 33.4 0.01 - 33.4 0.01 - 33.5 0.02 0.00% 33.4 0.01 - 33.5 0.02 0.00% 33.4 0.01 - 33.5 0.00 0.01% 33.6 0.00 0.01% 33.6 0.00 0.01% 33.5 0.00 0.00% 33.5 0.00 0.01% 33.5 0.00 0.01% 33.5 0.00 0.01% 33.5 0.00 0.01% 33.5 0.00 0.01% 33.5 0.00 0.01% 33.5 0.00 0.01% 33.5 0.00 0.01% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.5 0.00 0.00% 33.4 0.00 0.00% 33.4 0.00 0.00% 33.4 0.00 0.00% 33.4 0.00 0.0			
Important Spawning Ground of Commercial	SG3				1			
Fisheries Resources								
Important Spawning	004	Scenario B1 – Baseline scenario without the Project	34.1			33.4		
Ground of Commercial Fisheries Resources	SG1							
Important Nursery		Scenario B1 – Baseline scenario without the Project	34.1	-	-	33.4	-	-
Ground of Commercial	NG1							
	h averag		34.1	0.00	- 0.01%	33.4	0.00	-0.01%
` .		Scenario B1 – Baseline scenario without the Project		-	-		-	-
Sam Ka Tsuen	T1							0.01%
	L	осенано во - мини Project осенано (with 2-nour emergency discharge in both dry and wet seasons)	პ პ.გ	-0.01	- U.U2%	32.5	U.UT	0.03%