



Lam Environmental Services
Test Specialists & Environmental Analysts

SUMMARY REPORT

Project: Emission Control Project at Castle Peak Power Station 'B' Units
Client: CLP Power Hong Kong Limited
Address: Commercial Project
 G/F, 147 Argyle Street
 Kowloon
 Hong Kong
Lab. Job No. : J494
Matrix : Sediment

Laboratory	Sample Reference		Heavy Metals									
	Drillhole No.	Depth (m)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)	Mercury (Hg)	Arsenic (As)	Silver (Ag)	
		From To	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
			0.1	1	1	1	1	10	0.05	1	0.1	
16960 / 1	V1	0.00-0.90	0.2	35	18	21	54	83	0.13	12	0.1	
16960 / 2	V1	0.90-1.70	0.1	28	15	18	36	72	0.10	12	<0.1	
16960 / 3	V2	0.20-0.90	0.2	35	63	22	55	110	<0.05	12	0.4	
16960 / 4	V2	0.90-2.20	0.1	35	46	20	45	97	0.17	12	0.2	
16960 / 5	V3	0.05-1.10	0.2	30	37	19	46	110	0.14	10	0.4	



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Laboratory Sample ID	Sample Reference		Redox Potential mV	TOC %	TKN mg-N/kg	Nitrate mg-N/kg	Nitrite mg-N/kg	Ammoniacal Nitrogen mg-NH ₄ -N/kg	Ortho-Phosphate mg-P/kg	Total Phosphorous mg-P/kg
	Drillhole No.	Depth (m)								
		From To								
			1	0.1	50	1	1	1	1	10
16960 / 1	V1	0.00-0.90	450	0.78	170	5.2	1.7	23	3.5	410
16960 / 2	V1	0.90-1.70	450	1.1	100	6.7	1.5	33	3.7	410
16960 / 3	V2	0.20-0.90	430	0.89	120	8.3	2.8	21	5.3	700
16960 / 4	V2	0.90-2.20	450	1.4	110	4.4	1.8	31	9.6	660
16960 / 5	V3	0.05-1.10	460	1.2	130	5.3	1.9	6.7	2.0	520



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Laboratory	Sample Reference		PAHs (Low Molecular Weight)						PAHs (High Molecular Weight)									
	Drillhole No.	Depth (m) From To	Naphthalene	Acenaphtylene	Acenaphtene	Fluorene	Phenanthrene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Chrysene	Dibenz(ah)anthracene	Fluoranthene	Pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Benzo(ghi)perylene
			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
			55	55	55	55	55	55	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
16960 / 1	V1	0.00-0.90	<55	<55	<55	<55	<55	<55	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
16960 / 2	V1	0.90-1.70	<55	<55	<55	<55	<55	<55	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
16960 / 3	V2	0.20-0.90	<55	<55	<55	<55	<55	<55	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
16960 / 4	V2	0.90-2.20	<55	<55	<55	<55	<55	<55	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
16960 / 5	V3	0.05-1.10	<55	<55	<55	<55	<55	<55	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170



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Laboratory	Sample Reference		PCB																				
	Sample ID	Drillhole No.	Depth (m)		PCB 8	PCB 18	PCB 28	PCB 44	PCB 52	PCB 66	PCB 77	PCB 101	PCB 105	PCB 118	PCB 126	PCB 128	PCB 138	PCB 153	PCB 169	PCB 170	PCB 180	PCB 187	Total PCB
			From	To	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16960 / 1	V1		0.00-0.90	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
16960 / 2	V1		0.90-1.70	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
16960 / 3	V2		0.20-0.90	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
16960 / 4	V2		0.90-2.20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
16960 / 5	V3		0.05-1.10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2



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Laboratory	Sample Reference		Chlorinated Pesticides													Particle Size		
	Drillhole No.	Depth (m)	TBT	Alpha-BHC	Beta BHC	Gamma BHC	Delta-BHC	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan 1	p, p'-DDT	p, p'-DDD	p, p'-DDE	Endosulfan sulfate	Gravel	Sand	Silt & Clay
		From To		ug/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	%
16960 / 1	V1	0.00-0.90	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1	20	79
16960 / 2	V1	0.90-1.70	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	2	98
16960 / 3	V2	0.20-0.90	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2	15	83
16960 / 4	V2	0.90-2.20	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	6	94
16960 / 5	V3	0.05-1.10	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	28	72