

Installation of Submarine Gas Pipelines  
and Associated Facilities from  
To Kwa Wan to North Point for Former Kai Tak Airport Development  
Consultancy Services for Feasibility Study and Detailed Design  
Environmental Impact Assessment Report



## **Appendix B8**

### **Ambient SS, DO, TIN and UIA Levels at EPD's Water Quality Monitoring Stations**

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>VM1, 2 and 4</b>				
Average SS (mg/L)	3.4	2.7	5.2	3.8
90 percentile (ambient level)	5.2	4.6	7.1	5.6
30% increase above the ambient level	1.5	1.4	2.1	1.7

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>JM3, JM4</b>				
Average SS (mg/L)	2.9	2.2	4.0	3.3
90 percentile (ambient level)	4.8	3.8	4.9	4.6
30% increase above the ambient level	1.5	1.1	1.5	1.4

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>EM2</b>				
Average SS (mg/L)	3.0	2.4	4.2	2.7
90 percentile (ambient level)	4.4	3.5	8.1	4.4
30% increase above the ambient level	1.3	1.1	2.4	1.3

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>VM8, WM1, WM2</b>				
Average SS (mg/L)	5.4	4.4	5.9	3.3
90 percentile (ambient level)	8.0	7.2	9.6	5.4
30% increase above the ambient level	2.4	2.2	2.9	1.6

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>WM4</b>				
Average SS (mg/L)	6.5	5.4	6.3	3.3
90 percentile (ambient level)	10.6	9.9	8.3	4.3
30% increase above the ambient level	3.2	3.0	2.5	1.3

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>VM1</b>				
Average SS (mg/L)	3.2	2.5	6.7	3.4
90 percentile (ambient level)	5.2	3.6	7.9	4.8
30% increase above the ambient level	1.5	1.1	2.4	1.4

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>VM2</b>				
Average SS (mg/L)	3.1	2.5	4.1	3.9
90 percentile (ambient level)	4.5	4.4	4.9	5.3
30% increase above the ambient level	1.3	1.3	1.5	1.6

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>VM4</b>				
Average SS (mg/L)	3.8	3.0	4.8	4.2
90 percentile (ambient level)	4.8	5.0	6.3	6.6
30% increase above the ambient level	1.5	1.5	1.9	2.0

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>JM3</b>				
Average SS (mg/L)	2.9	2.3	3.5	3.1
90 percentile (ambient level)	4.7	3.8	4.9	4.6
30% increase above the ambient level	1.4	1.1	1.5	1.4

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>JM4</b>				
Average SS (mg/L)	2.9	2.0	4.4	3.5
90 percentile (ambient level)	4.9	3.2	5.3	4.6
30% increase above the ambient level	1.5	1.0	1.6	1.4

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>VM8</b>				
Average SS (mg/L)	6.3	5.7	5.2	3.4
90 percentile (ambient level)	8.6	7.8	9.5	6.8
30% increase above the ambient level	2.6	2.3	2.9	2.0

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>WM1</b>				
Average SS (mg/L)	5.0	3.7	7.0	3.6
90 percentile (ambient level)	7.3	5.5	9.9	5.5
30% increase above the ambient level	2.2	1.6	3.0	1.7

Station	Dry Season		Wet Season	
	Depth-averaged	Surface	Depth-averaged	Surface
<b>WM2</b>				
Average SS (mg/L)	5.0	3.8	5.4	3.1
90 percentile (ambient level)	6.4	5.0	7.8	4.6
30% increase above the ambient level	1.9	1.5	2.3	1.4

2007-2008	Dry Season		Wet Season	
VM1, 2 and 4	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.3	5.3	3.3	2.7
Total Inorganic Nitrogen (mg/L)	0.22	-	0.32	-
Unionised Ammonia (mg/L)	0.004	-	0.006	-

2007-2008	Dry Season		Wet Season	
JM3, JM4	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.6	5.8	4.4	3.6
Total Inorganic Nitrogen (mg/L)	0.17	-	0.18	-
Unionised Ammonia (mg/L)	0.003	-	0.004	-

2007-2008	Dry Season		Wet Season	
EM2	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.9	6.1	4.5	3.6
Total Inorganic Nitrogen (mg/L)	0.14	-	0.17	-
Unionised Ammonia (mg/L)	0.002	-	0.003	-

2007-2008	Dry Season		Wet Season	
VM8, WM1, WM2	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.6	5.7	4.0	2.5
Total Inorganic Nitrogen (mg/L)	0.25	-	0.35	-
Unionised Ammonia (mg/L)	0.004	-	0.006	-

2007-2008	Dry Season		Wet Season	
VM1	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.7	6.0	3.3	2.9
Total Inorganic Nitrogen (mg/L)	0.19	-	0.24	-
Unionised Ammonia (mg/L)	0.003	-	0.004	-

2007-2008	Dry Season		Wet Season	
VM2	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.5	5.6	3.6	2.7
Total Inorganic Nitrogen (mg/L)	0.22	-	0.34	-
Unionised Ammonia (mg/L)	0.004	-	0.007	-

2007-2008	Dry Season		Wet Season	
VM4	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.2	5.2	3.9	2.3
Total Inorganic Nitrogen (mg/L)	0.25	-	0.38	-
Unionised Ammonia (mg/L)	0.004	-	0.007	-

2007-2008	Dry Season		Wet Season	
JM3	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.8	5.9	4.7	3.9
Total Inorganic Nitrogen (mg/L)	0.17	-	0.20	-
Unionised Ammonia (mg/L)	0.003	-	0.005	-

2007-2008	Dry Season		Wet Season	
JM4	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.5	5.8	4.0	3.6
Total Inorganic Nitrogen (mg/L)	0.17	-	0.17	-
Unionised Ammonia (mg/L)	0.003	-	0.004	-

2007-2008	Dry Season		Wet Season	
VM8	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.5	5.5	4.0	3.3
Total Inorganic Nitrogen (mg/L)	0.30	-	0.43	-
Unionised Ammonia (mg/L)	0.005	-	0.009	-

2007-2008	Dry Season		Wet Season	
WM1	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.9	6.0	3.9	2.5
Total Inorganic Nitrogen (mg/L)	0.17	-	0.22	-
Unionised Ammonia (mg/L)	0.002	-	0.003	-

2007-2008	Dry Season		Wet Season	
WM2	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.6	5.7	4.3	3.2
Total Inorganic Nitrogen (mg/L)	0.27	-	0.41	-
Unionised Ammonia (mg/L)	0.004	-	0.006	-

2007-2008	Dry Season		Wet Season	
WM4	Depth-averaged	Bottom	Depth-averaged	Bottom
Dissolved Oxygen (mg/L)	5.5	5.7	3.6	2.7
Total Inorganic Nitrogen (mg/L)	0.29	-	0.37	-
Unionised Ammonia (mg/L)	0.004	-	0.006	-