

**Appendix J - Detail of Water Quality Exceedance**  
**19 January 2019**

Monitoring Location	Tide mode	Parameter	Depth Average	Action Level		Limit Level		Remark
				120% of Upstream Control Station	95th Percentile of Baseline Data	130% of Upstream Control Station	99th Percentile of Baseline Data	
IS1	Mid-Flood	Turbidity	1.82	1.75	7.00	1.90	8.40	It is considered that the source for the relatively high turbidity, suspended solid and copper levels were not originated from the construction site based on all construction work were undertaken within the appropriate silt curtain to comply the proposed mitigation measure on 19 January 2019. It might be caused by the daily variation of the surrounding water quality and elevation by marine movement.
IS3	Mid-Flood	Turbidity	2.09	1.75	7.00	1.90	8.40	
IS1	Mid-Ebb	Suspended solid	1.64	1.20	13.80	1.30	18.70	
IS2	Mid-Ebb	Suspended solid	2.70	1.20	13.80	1.30	18.70	
IS3	Mid-Ebb	Suspended solid	2.16	1.20	13.80	1.30	18.70	
IS1	Mid-Flood	Suspended solid	3.68	2.84	13.80	3.08	18.70	
IS3	Mid-Flood	Suspended solid	3.12	2.84	13.80	3.08	18.70	
IS1	Mid-Ebb	Copper	5.22	6.26	2.00	6.79	3.00	
IS2	Mid-Ebb	Copper	5.00	6.26	2.00	6.79	3.00	
IS3	Mid-Ebb	Copper	5.00	6.26	2.00	6.79	3.00	

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IS1	Mid-Flood	Copper	5.00	6.40	2.00	6.93	3.00	
IS2	Mid-Flood	Copper	5.67	6.40	2.00	6.93	3.00	
IS3	Mid-Flood	Copper	6.22	6.40	2.00	6.93	3.00	

Remark:

Text highlighted in red = Action Level Exceedance

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**Appendix J - Detail of Water Quality Exceedance**  
**22 January 2019**

Monitoring Location	Tide mode	Parameter	Depth Average	Action Level		Limit Level		Remark
				120% of Upstream Control Station	95th Percentile of Baseline Data	130% of Upstream Control Station	99th Percentile of Baseline Data	
IS1	Mid-Ebb	Copper	4.44	5.33	2.00	5.77	3.00	It is considered that the source for the relatively high copper levels were not originated from the construction site based on all construction work were undertaken within the appropriate silt curtain to comply the proposed mitigation measure on 22 January 2019. It might be caused by the daily variation of the surrounding water quality and elevation by marine movement.
IS2	Mid-Ebb	Copper	4.44	5.33	2.00	5.77	3.00	
IS3	Mid-Ebb	Copper	4.78	5.33	2.00	5.77	3.00	
IS1	Mid-Flood	Copper	4.22	4.93	2.00	5.34	3.00	
IS2	Mid-Flood	Copper	4.22	4.93	2.00	5.34	3.00	
IS3	Mid-Flood	Copper	4.00	4.93	2.00	5.34	3.00	

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**Appendix J - Detail of Water Quality Exceedance**  
**24 January 2019**

Monitoring Location	Tide mode	Parameter	Depth Average	Action Level		Limit Level		Remark
				120% of Upstream Control Station	95th Percentile of Baseline Data	130% of Upstream Control Station	99th Percentile of Baseline Data	
IS1	Mid-Ebb	Suspended solid	6.79	6.53	13.80	7.07	18.70	It is considered that the source for the relatively high suspended solid and copper levels were not originated from the construction site based on all construction work were undertaken within the appropriate silt curtain to comply the proposed mitigation measure on 24 January 2019. It might be caused by the daily variation of the surrounding water quality and elevation by marine movement.
IS1	Mid-Ebb	Copper	4.44	9.47	2.00	10.26	3.00	
IS2	Mid-Ebb	Copper	4.44	9.47	2.00	10.26	3.00	
IS3	Mid-Ebb	Copper	4.78	9.47	2.00	10.26	3.00	
IS1	Mid-Flood	Copper	4.22	9.73	2.00	10.54	3.00	
IS2	Mid-Flood	Copper	4.22	9.73	2.00	10.54	3.00	
IS3	Mid-Flood	Copper	4.00	9.73	2.00	10.54	3.00	

Remark:

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**Appendix J - Detail of Water Quality Exceedance**  
**26 January 2019**

Monitoring Location	Tide mode	Parameter	Depth Average	Action Level		Limit Level		Remark
				120% of Upstream Control Station	95th Percentile of Baseline Data	130% of Upstream Control Station	99th Percentile of Baseline Data	
IS1	Mid-Ebb	Suspended solid	5.34	5.12	13.80	5.55	18.70	It is considered that the source for the relatively high suspended solid and copper levels were not originated from the construction site based on all construction work were undertaken within the appropriate silt curtain to comply the proposed mitigation measure on 26 January 2019. It might be caused by the daily variation of the surrounding water quality and elevation by marine movement.
IS3	Mid-Ebb	Suspended solid	5.31	5.12	13.80	5.55	18.70	
IS1	Mid-Ebb	Copper	6.67	7.20	2.00	7.80	3.00	
IS2	Mid-Ebb	Copper	7.00	7.20	2.00	7.80	3.00	
IS3	Mid-Ebb	Copper	6.67	7.20	2.00	7.80	3.00	
IS1	Mid-Flood	Copper	7.44	8.93	2.00	9.67	3.00	
IS2	Mid-Flood	Copper	7.44	8.93	2.00	9.67	3.00	
IS3	Mid-Flood	Copper	7.33	8.93	2.00	9.67	3.00	

Remark:

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**Appendix J - Detail of Water Quality Exceedance**  
**29 January 2019**

Monitoring Location	Tide mode	Parameter	Depth Average	Action Level		Limit Level		Remark
				120% of Upstream Control Station	95th Percentile of Baseline Data	130% of Upstream Control Station	99th Percentile of Baseline Data	
IS2	Mid-Flood	Suspended solid	3.77	3.26	13.80	3.54	18.70	It is considered that the source for the relatively high suspended solids and copper levels were not originated from the construction site based on all construction work were undertaken within the appropriate silt curtain to comply the proposed mitigation measure on 29 January 2019. It might be caused by the daily variation of the surrounding water quality and elevation by marine movement.
IS1	Mid-Ebb	Copper	4.56	4.93	2.00	5.34	3.00	
IS2	Mid-Ebb	Copper	4.67	4.93	2.00	5.34	3.00	
IS3	Mid-Ebb	Copper	4.33	4.93	2.00	5.34	3.00	
IS1	Mid-Flood	Copper	4.67	5.47	2.00	5.93	3.00	
IS2	Mid-Flood	Copper	4.22	5.47	2.00	5.93	3.00	
IS3	Mid-Flood	Copper	4.44	5.47	2.00	5.93	3.00	

Remark:

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## Appendix J - Detail of Water Quality Exceedance

31 January 2019

Monitoring Location	Tide mode	Parameter	Depth Average	Action Level		Limit Level		Remark
				120% of Upstream Control Station	95th Percentile of Baseline Data	130% of Upstream Control Station	99th Percentile of Baseline Data	
IS1	Mid-Ebb	Turbidity	2.54	2.41	7.00	2.61	8.40	It is considered that the source for the relatively high turbidity and copper levels were not originated from the construction site based on all construction work were undertaken within the appropriate silt curtain to comply the proposed mitigation measure on 31 January 2019. It might be caused by the daily variation of the surrounding water quality and elevation by marine movement.
IS1	Mid-Ebb	Copper	5.00	6.00	2.00	6.50	3.00	
IS2	Mid-Ebb	Copper	4.89	6.00	2.00	6.50	3.00	
IS3	Mid-Ebb	Copper	4.89	6.00	2.00	6.50	3.00	
IS1	Mid-Flood	Copper	5.00	6.00	2.00	6.50	3.00	
IS2	Mid-Flood	Copper	5.00	6.00	2.00	6.50	3.00	
IS3	Mid-Flood	Copper	5.00	6.00	2.00	6.50	3.00	

Remark:

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