

Appendix J

Operational
Phase Water
Quality
Monitoring
Results

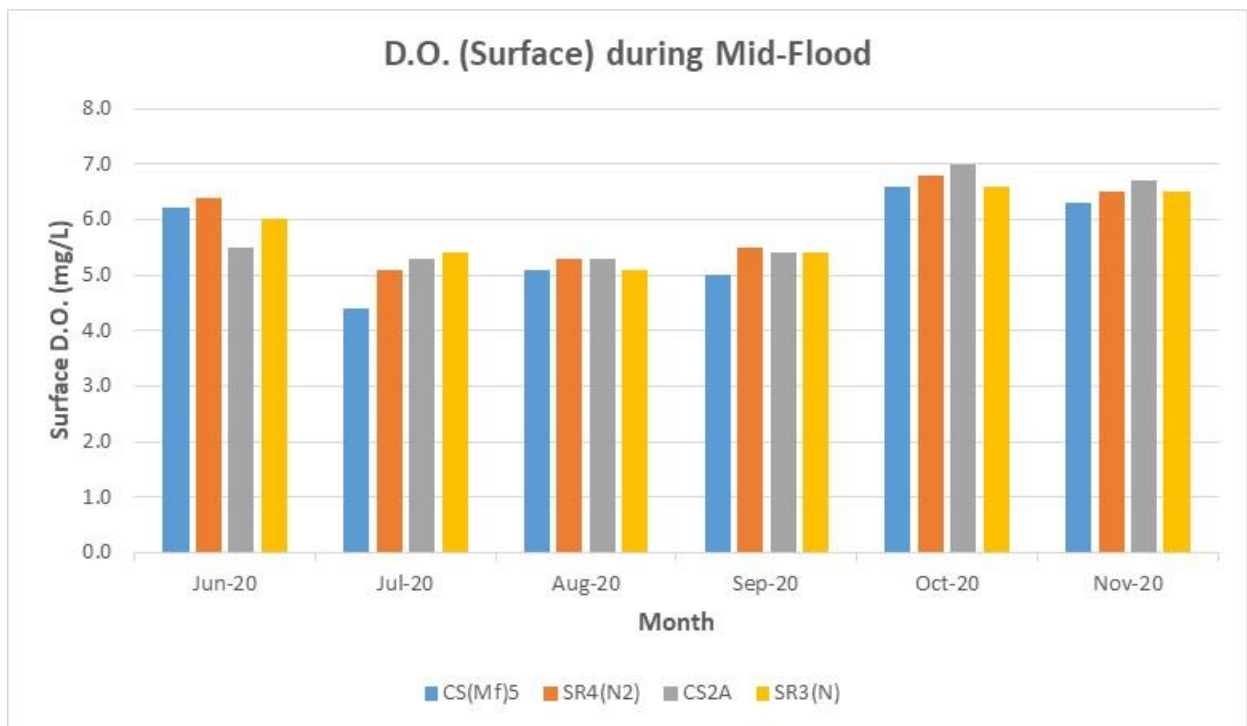
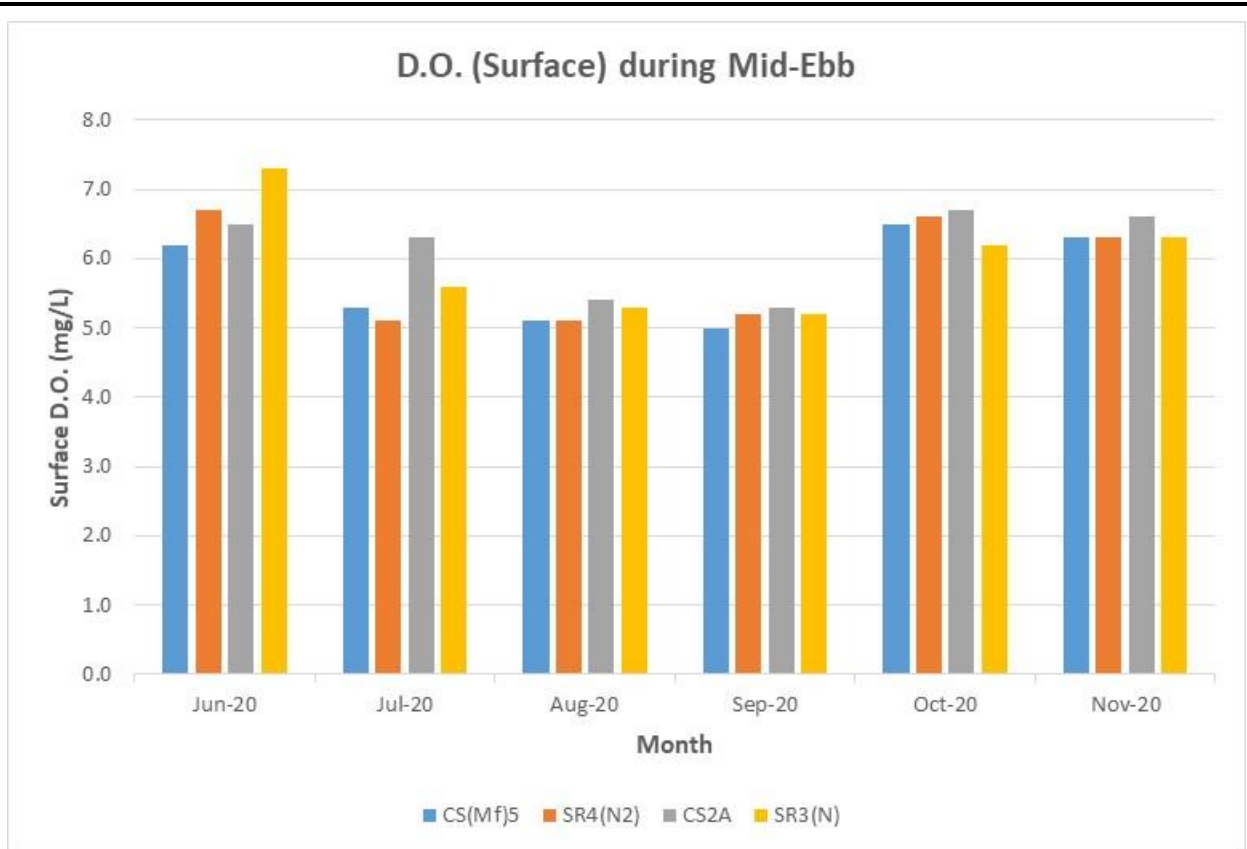


Figure J1 Operational Phase Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 June 2020 and 30 November 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_November 2020_graphs_Rev a.xls



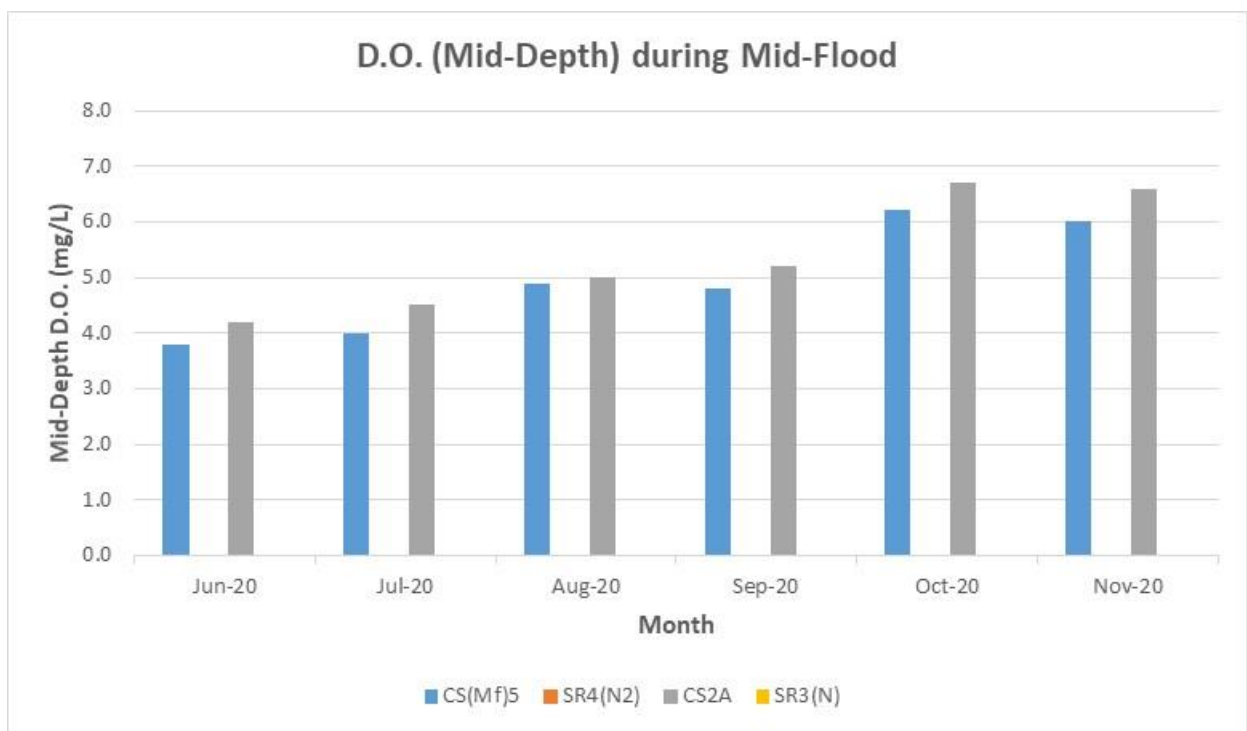
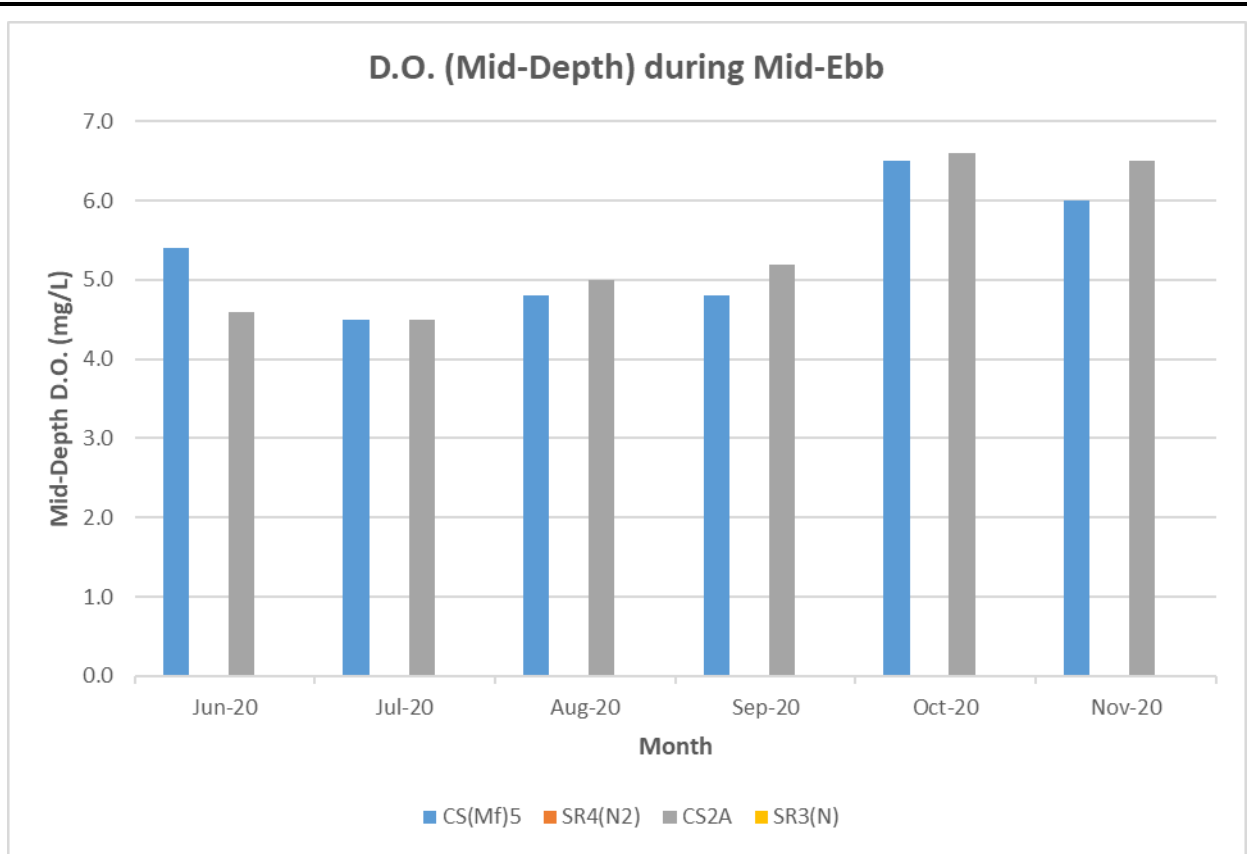


Figure J2 Operational Phase Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 June 2020 and 30 November 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.



Ref: 0212330_Impact-WQM_November 2020_graphs_Rev a.xls

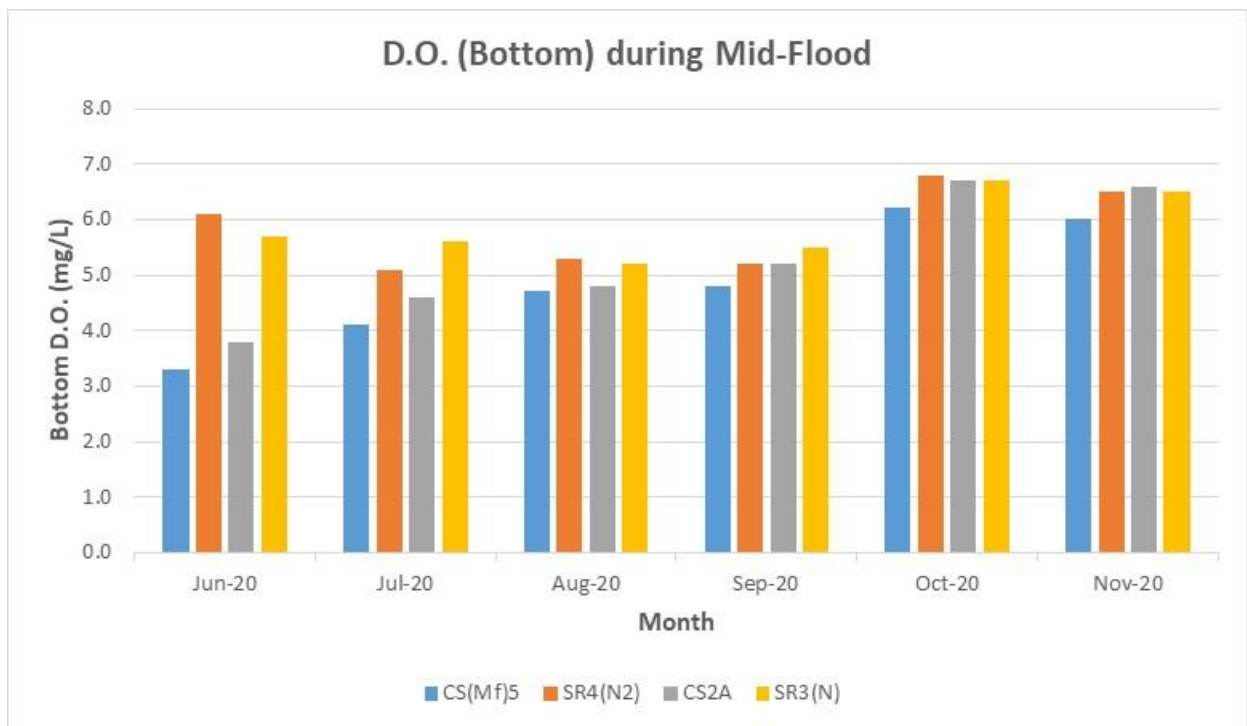
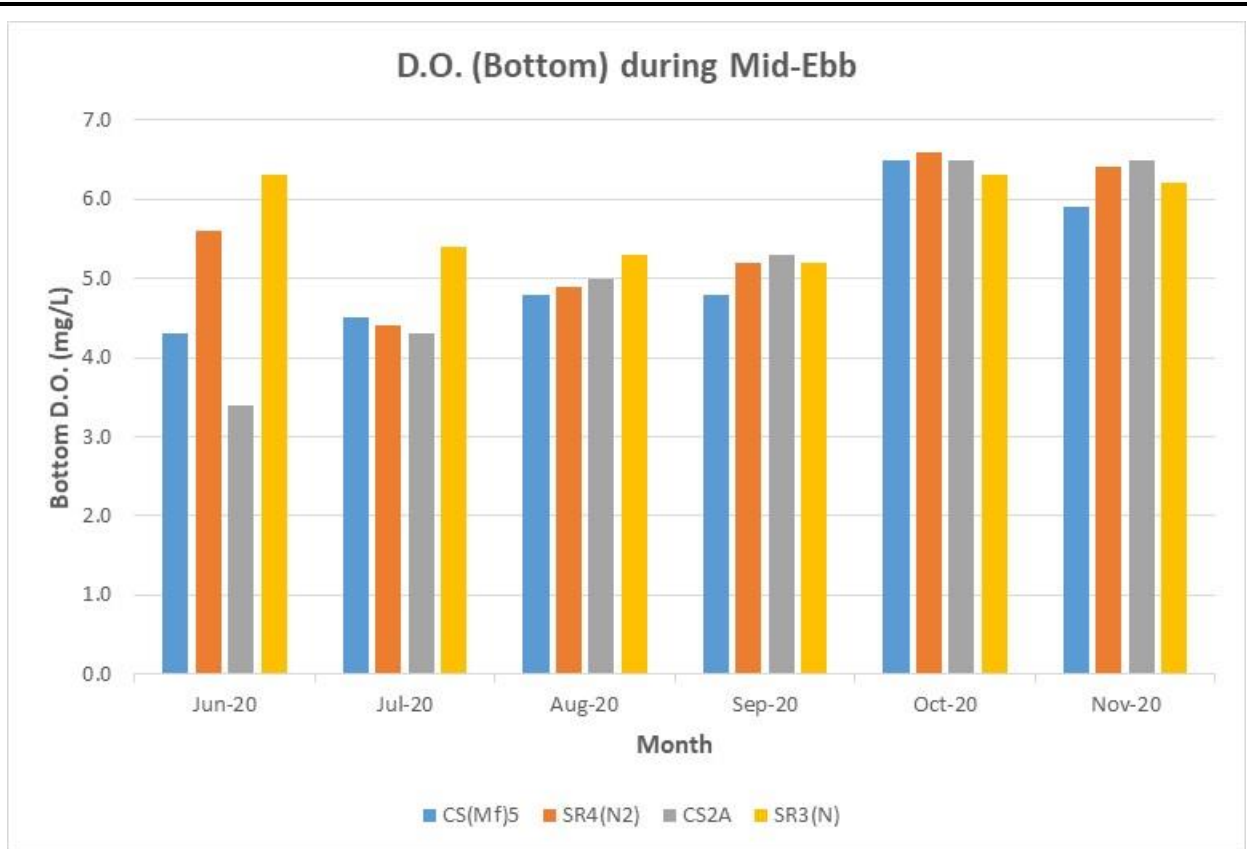


Figure J3 Operational Phase Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters between 1 June 2020 and 30 November 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_November 2020_graphs_Rev a.xls



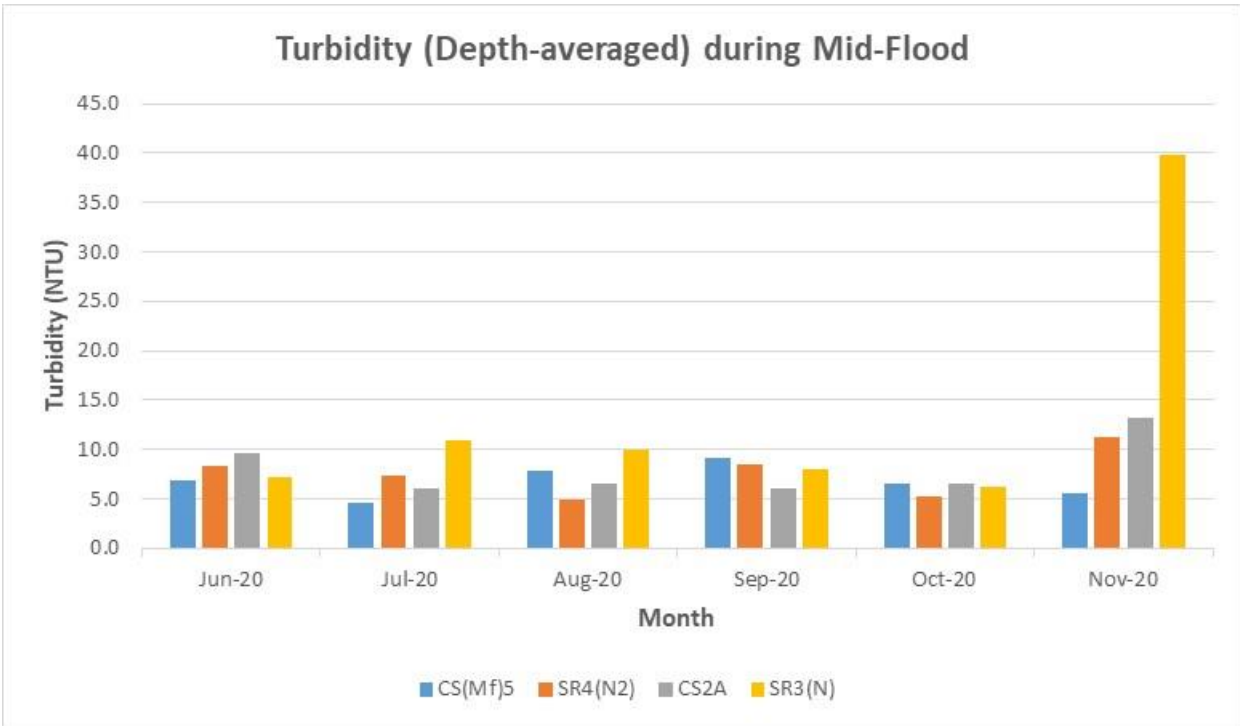
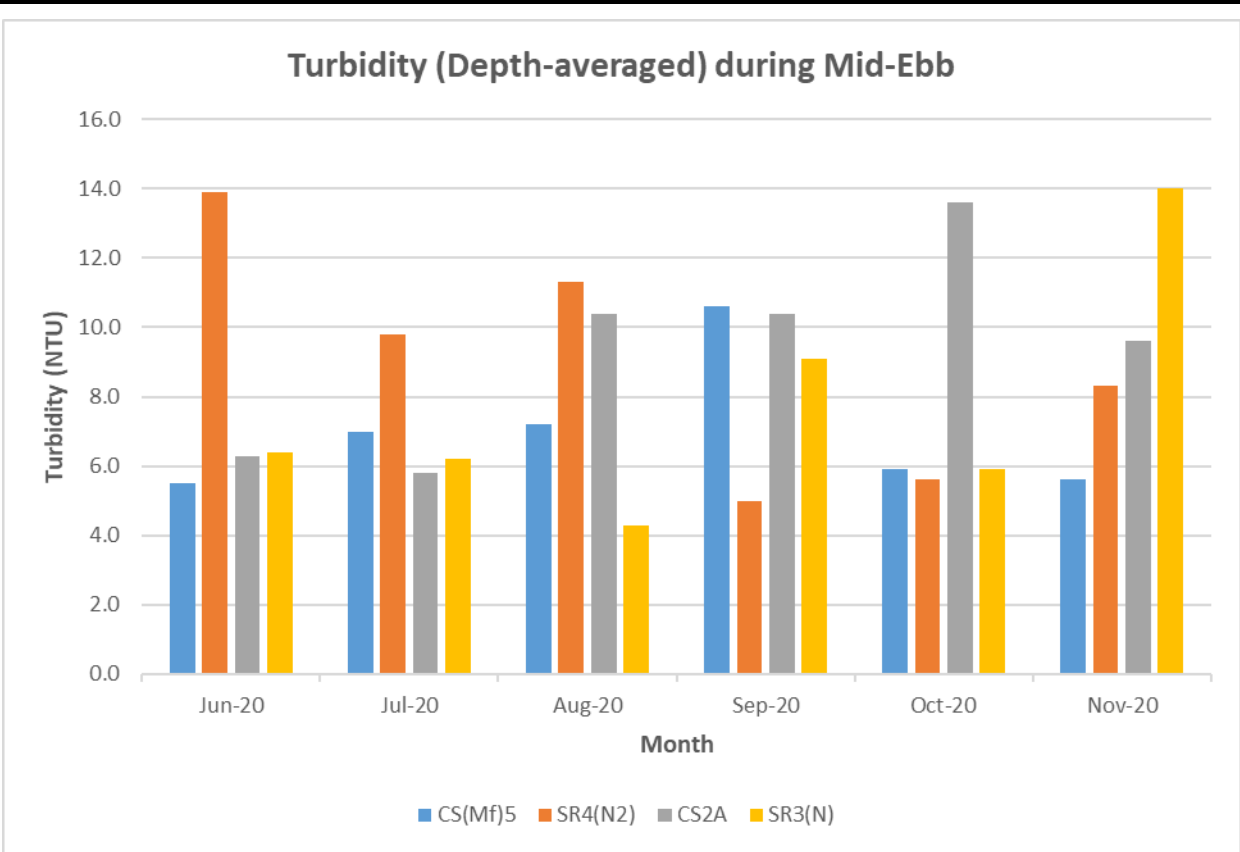


Figure J4 Operational Phase Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 June 2020 and 30 November 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_November 2020_graphs_Rev a.xls



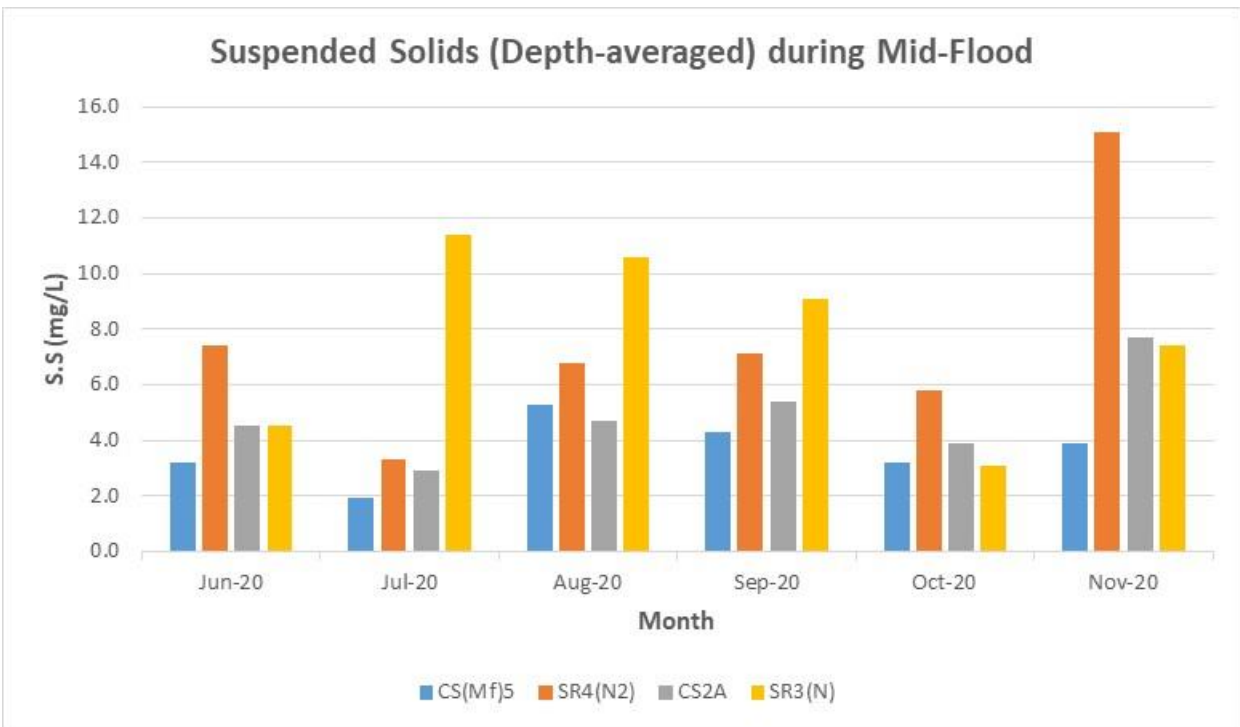
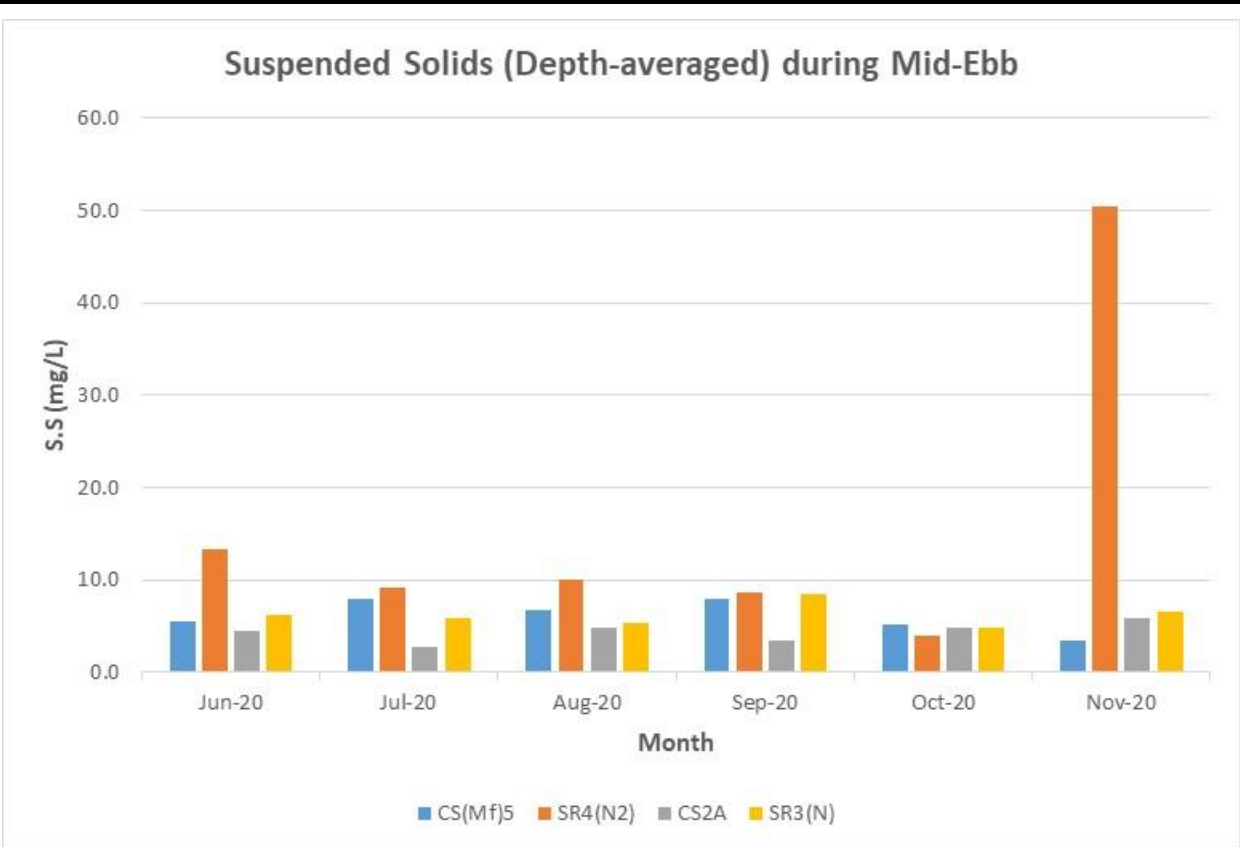


Figure J5 Operational Phase Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 June 2020 and 30 November 2020. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_November 2020_graphs_Rev a.xls



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged					
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)			
23-11-20	Mid-Ebb	CS(M)5	Cloudy	Moderate	5:44	12.3	Surface	1.0	1	24.4	8.0	29.4	6.3	89.4	3.1	3.8	6.2	5.6	3.5			
									2	24.4	8.0	29.4	6.3	89.5	3.1	4.6						
							Middle	6.2	1	24.4	8.0	30.6	6.0	85.2	5.9	2.8						
									2	24.4	8.0	30.6	6.0	85.2	5.8	3.7						
							Bottom	11.3	1	24.3	8.0	31.2	5.9	83.7	8.0	3.5						
									2	24.3	8.0	31.2	5.9	83.7	7.9	2.7						
		SR4(N2)	Cloudy	Calm	7:15	3.2	Surface	1.0	1	24.6	8.0	30.3	6.3	90.4	7.5	45.0	6.3	8.3	50.5			
									2	24.6	8.0	30.3	6.3	90.4	7.4	46.7						
							Bottom	2.2	1	24.6	8.0	30.3	6.4	90.8	9.2	58.0						
									2	24.6	8.0	30.3	6.4	90.9	9.1	52.2						
							Surface	1.0	1	24.3	8.1	29.9	6.6	93.8	6.5	6.4				6.6	9.6	5.8
									2	24.3	8.1	29.9	6.6	93.8	6.5	5.6						
	Middle	3.3	1	24.2	8.1	30.4	6.5	91.9	10.1	6.3												
			2	24.2	8.1	30.4	6.5	91.8	9.9	5.4												
	Bottom	5.5	1	24.0	8.1	30.9	6.5	91.6	12.2	5.1												
			2	24.0	8.1	30.9	6.5	91.5	12.1	6.1												
	SR3(N)	Cloudy	Calm	6:32	4.5	Surface	1.0	1	24.7	8.0	29.9	6.3	89.5	12.7	7.4	6.3	14.0	6.6				
								2	24.7	8.0	29.9	6.3	89.4	12.7	6.6							
						Bottom	3.5	1	24.7	8.1	29.9	6.2	88.1	15.2	6.1							
								2	24.7	8.1	29.9	6.2	88.1	15.2	6.2							
						Surface	1.0	1	24.4	8.0	30.3	6.3	89.6	2.2	3.1				6.2	5.6	3.9	
								2	24.4	8.0	30.3	6.3	89.6	2.1	2.8							
	Middle	6.6	1	24.3	8.0	31.5	6.0	85.3	5.8	4.2												
			2	24.3	8.0	31.5	6.0	85.3	5.7	3.3												
Bottom	12.2	1	24.2	8.0	31.6	6.0	85.6	8.9	5.5													
		2	24.2	8.0	31.6	6.0	85.5	8.8	4.6													
23-11-20	Mid-Flood	SR4(N2)	Cloudy	Calm	14:42	3.5	Surface	1.0	1	24.6	8.1	30.2	6.5	92.0	9.7	15.5	6.5	11.2	15.1			
									2	24.6	8.1	30.2	6.5	92.1	9.7	15.5						
							Bottom	2.5	1	24.6	8.1	30.3	6.5	92.3	12.7	14.6						
									2	24.6	8.1	30.3	6.5	92.3	12.8	14.6						
							Surface	1.0	1	24.4	8.2	29.7	6.7	94.6	10.2	6.7				6.7	13.2	7.7
									2	24.4	8.2	29.7	6.7	94.7	9.9	7.6						
		Middle	3.2	1	24.3	8.2	30.3	6.6	93.6	13.6	8											
				2	24.3	8.2	30.3	6.6	93.7	13.5	7.8											
		Bottom	5.4	1	24.3	8.2	30.6	6.6	93.9	16.0	7.9											
				2	24.3	8.2	30.6	6.6	93.9	16.2	8.4											
		CS2A	Cloudy	Moderate	14:04	6.4	Surface	1.0	1	24.5	7.9	29.7	6.5	92.7	34.5	7.1	6.5	39.8	7.4			
									2	24.5	7.9	29.7	6.5	92.7	34.3	6.5						
	Bottom						3.6	1	24.6	8.0	29.7	6.5	91.9	45.1	7.6							
								2	24.6	8.0	29.7	6.5	91.9	45.3	8.4							