

Appendix J

Operational
Phase Water
Quality
Monitoring
Results

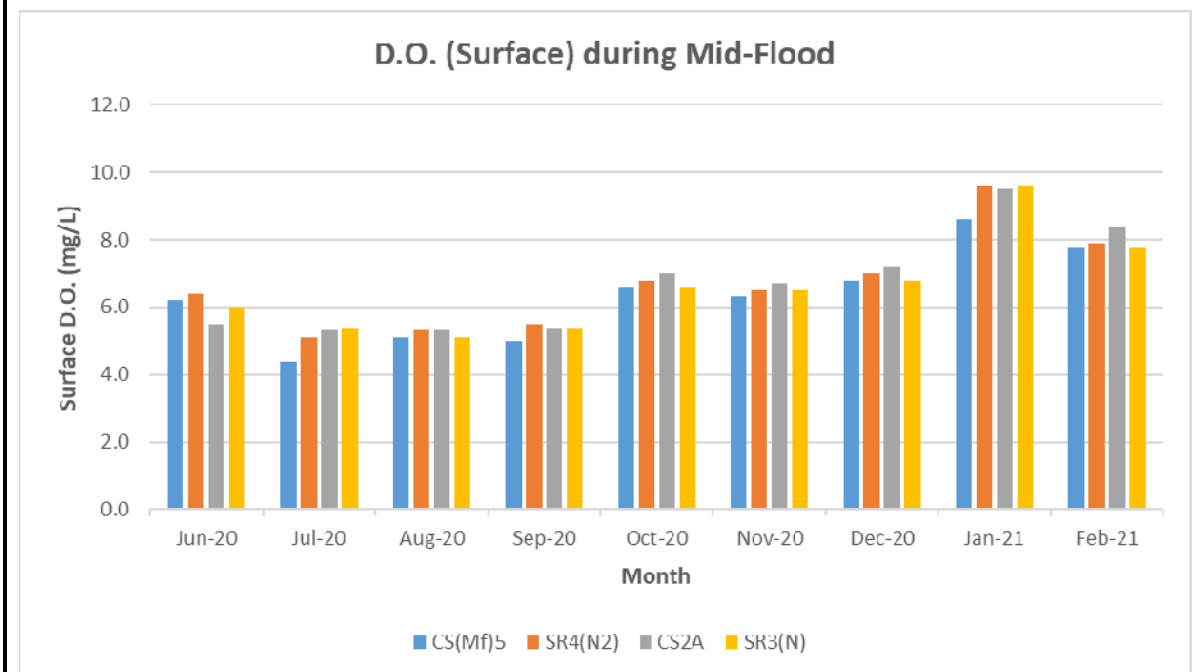
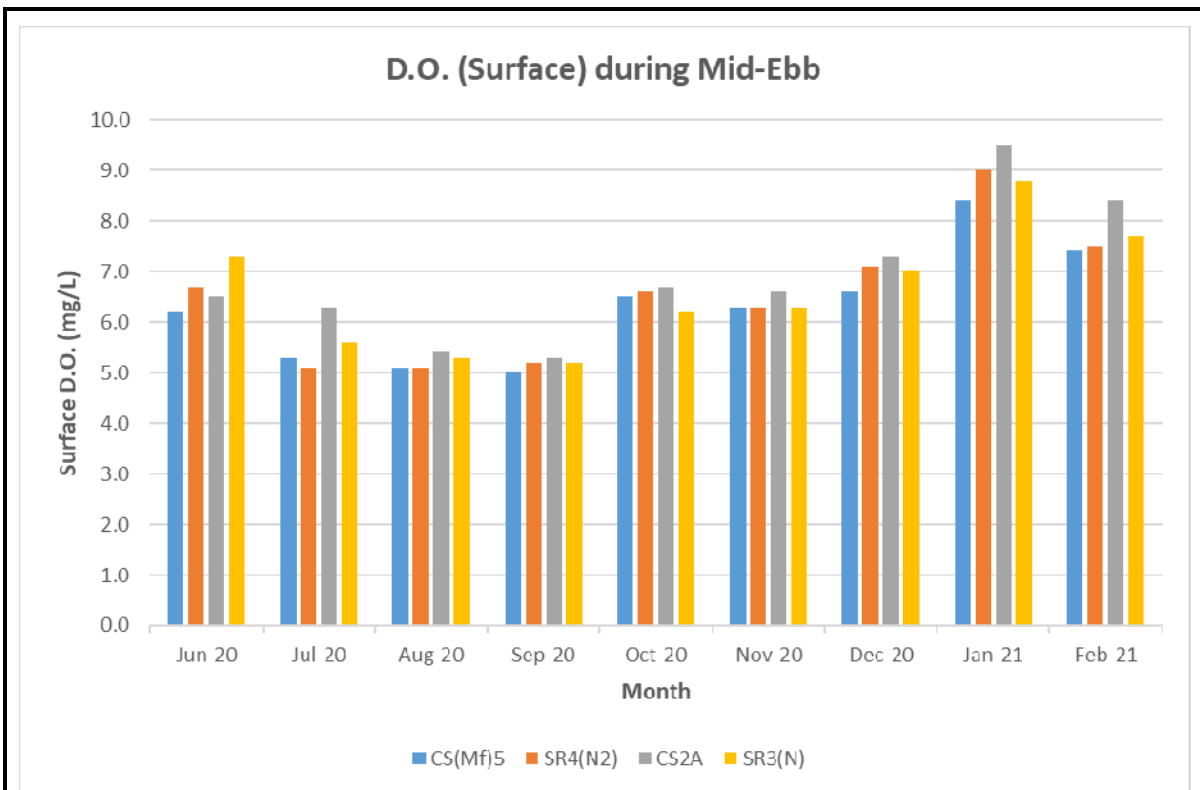
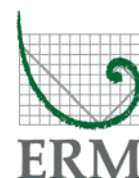


Figure J1 Operational Phase Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 June 2020 and 28 February 2021. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_February 2021_graphs_Rev a.xls



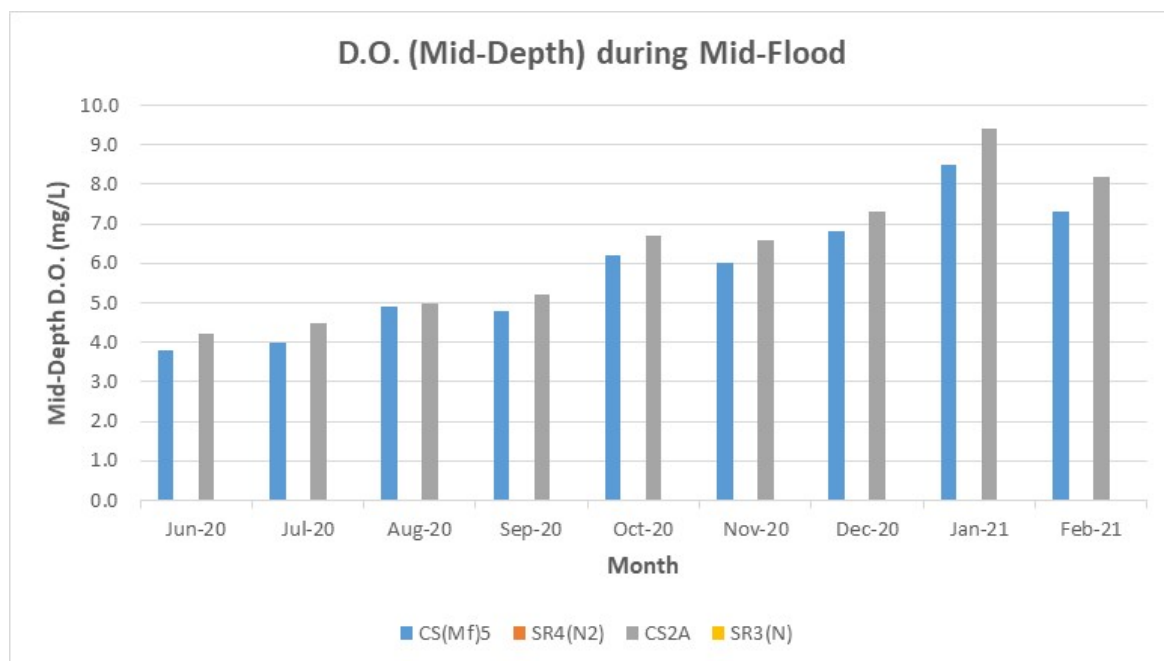
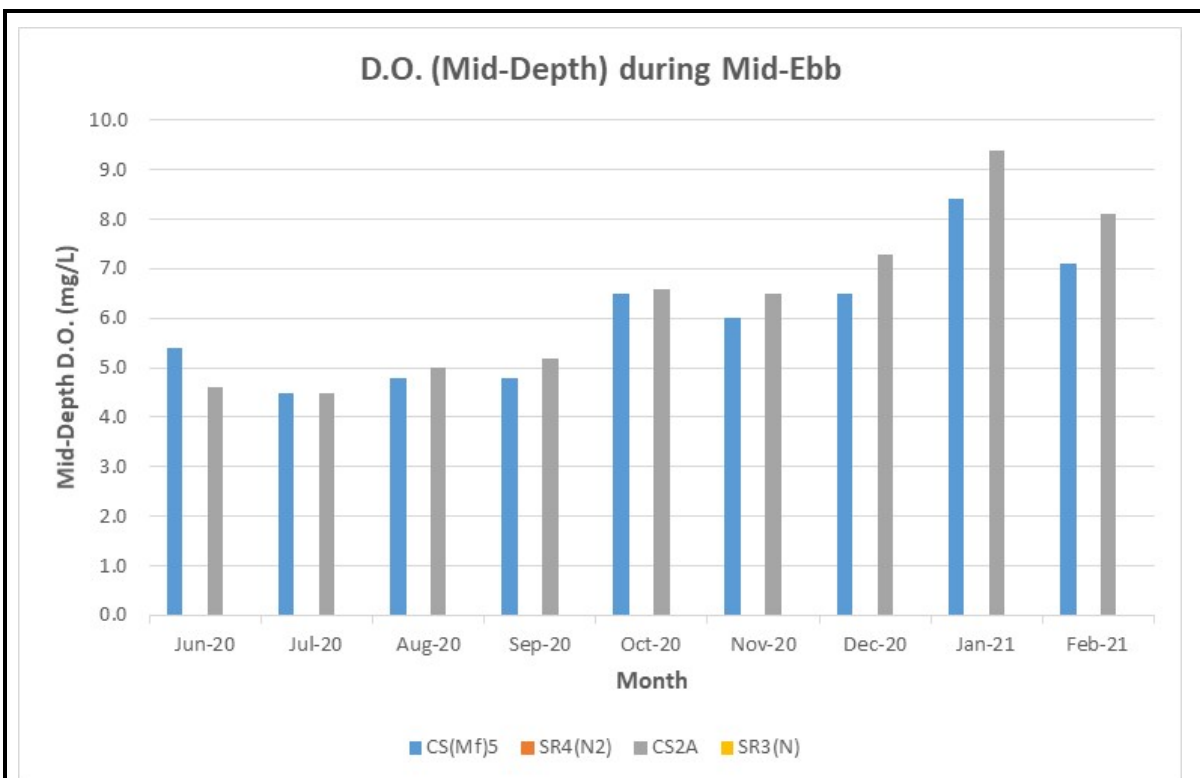


Figure J2 Operational Phase Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 June 2020 and 28 February 2021. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_February 2021_graphs_Rev a.xls



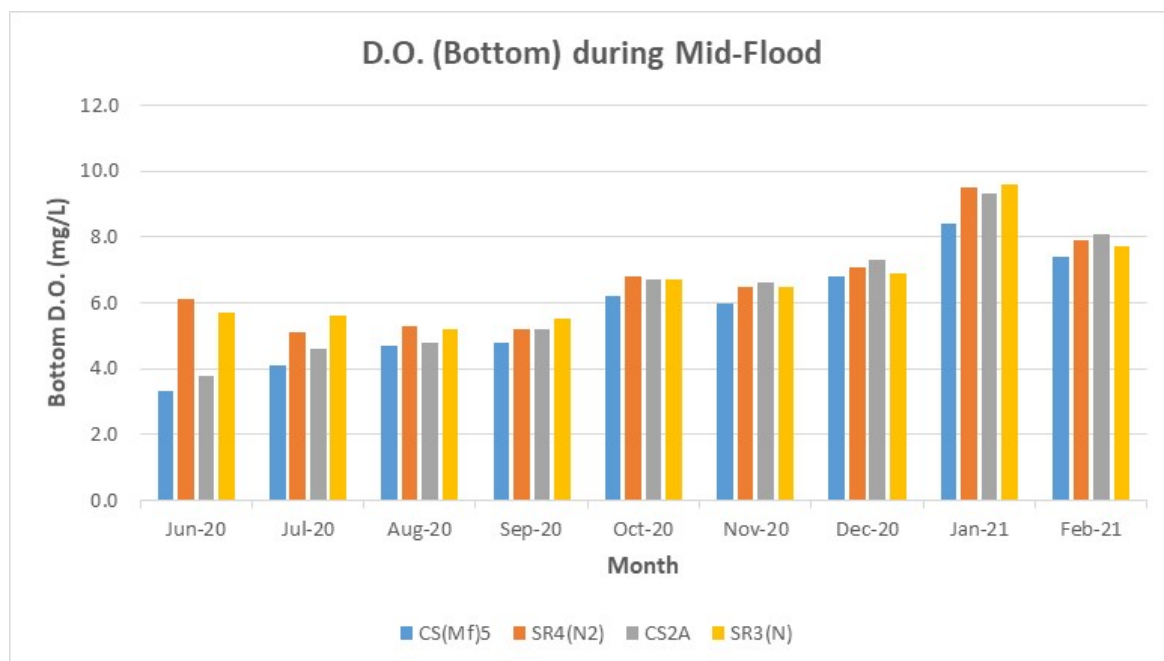
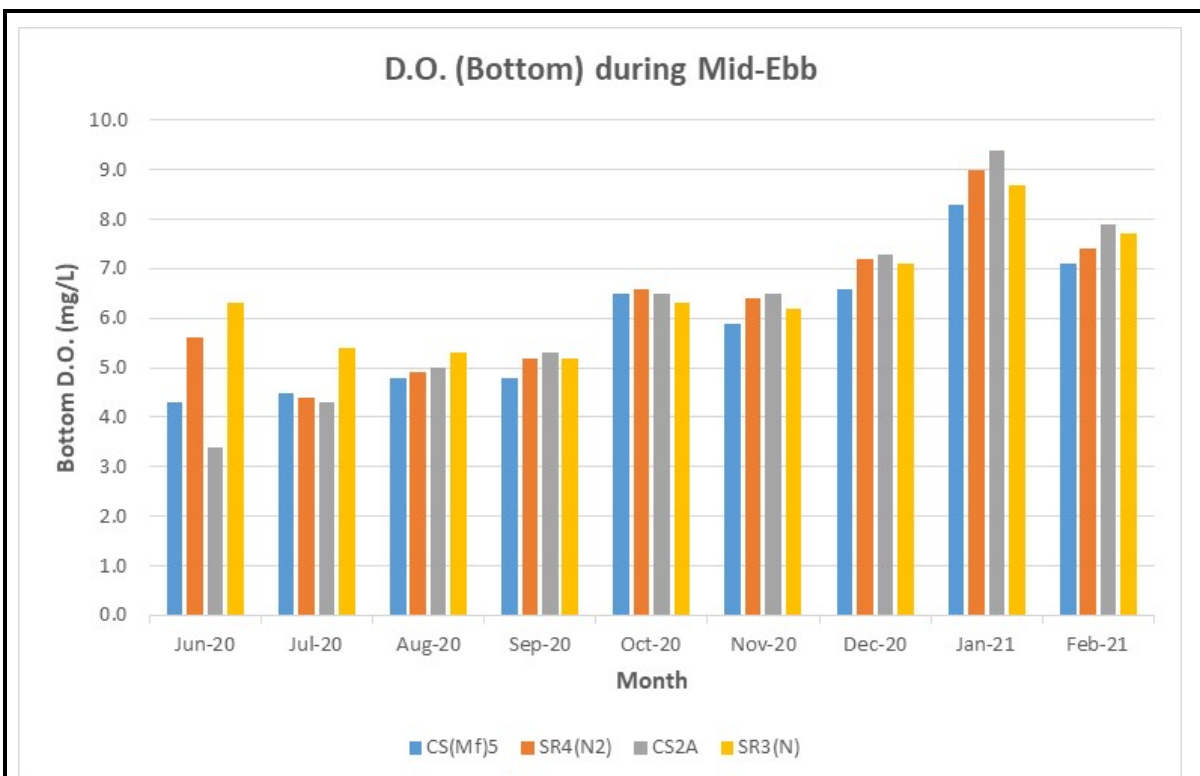


Figure J3 Operational Phase Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters between 1 June 2020 and 28 February 2021. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_February 2021_graphs_Rev a.xls



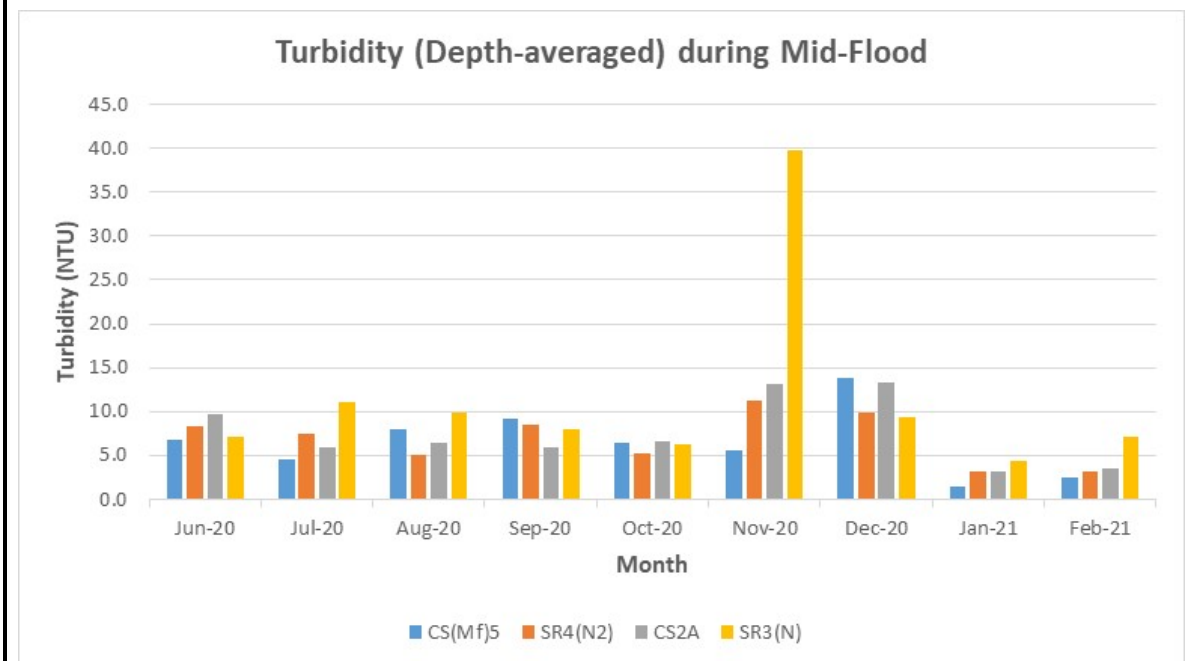
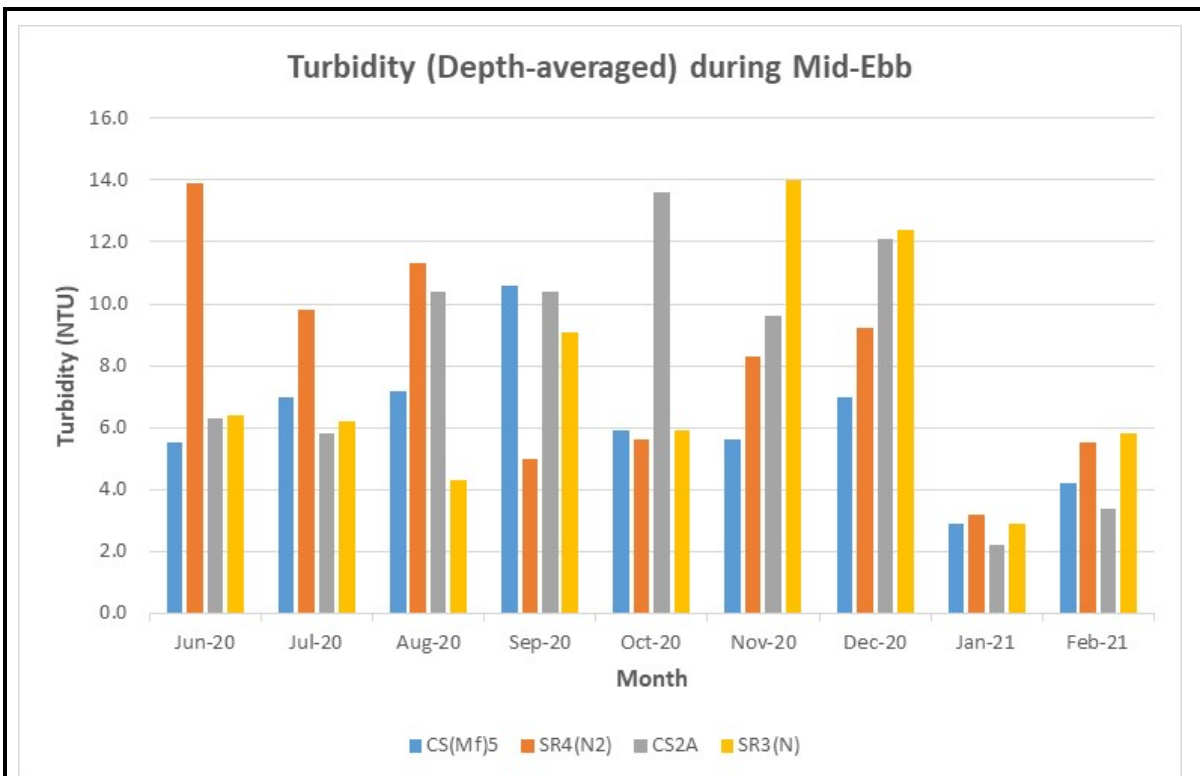


Figure J4 Operational Phase Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 June 2020 and 28 February 2021. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_February 2021_graphs_Rev a.xls



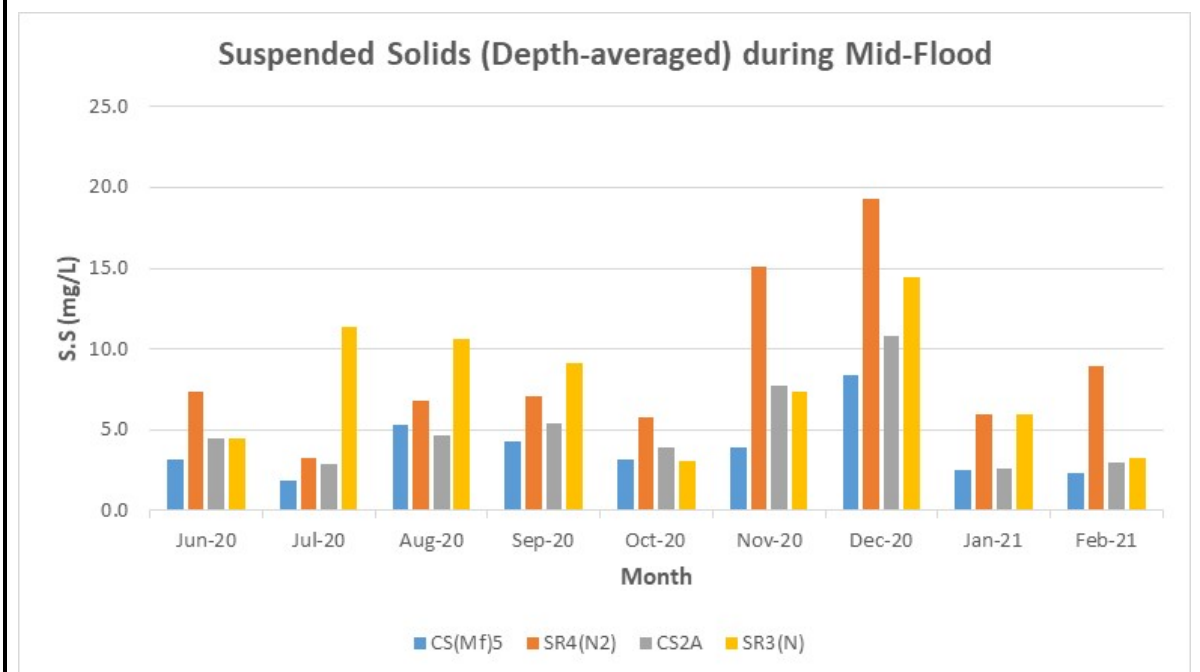
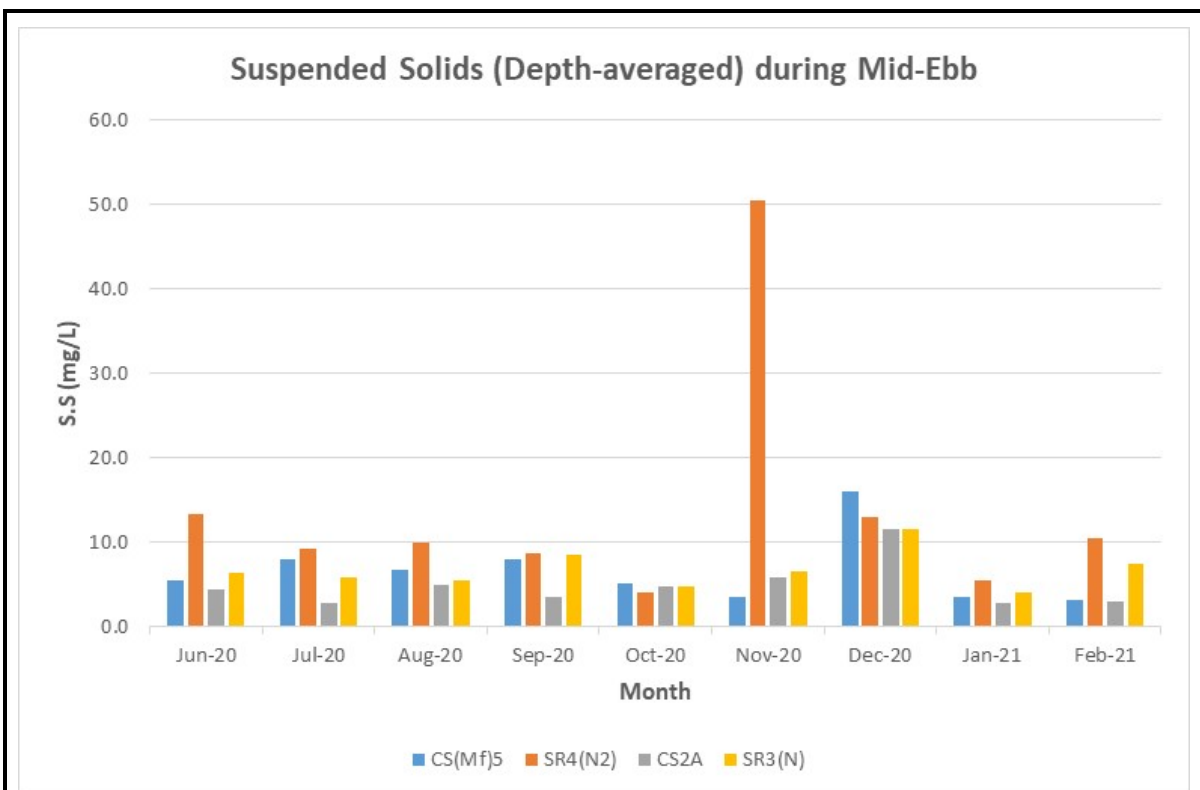
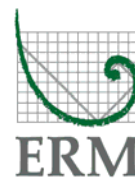


Figure J5 Operational Phase Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 June 2020 and 28 February 2021. The weather conditions during the monitoring period varied mostly from sunny to cloudy.

Ref: 0212330_Impact-WQM_February 2021_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)		
24-02-21	Mid-Ebb	CS(M05)	Cloudy	Moderate	11:03	13.0	Surface	1.0	1	20.3	8.2	30.5	7.3	97.2	3.0	2.8	7.2	4.2	3.1		
									2	20.3	8.2	30.5	7.4	98.2	2.7	2.0					
							Middle	6.5	1	19.9	8.1	32.1	7.1	93.7	4.7	3.1					
									2	19.9	8.1	32.1	7.1	93.7	4.5	3.3					
							Bottom	12.0	1	19.8	8.1	32.2	7.0	92.8	5.0	3.6					
									2	19.9	8.1	32.1	7.1	93.5	5.3	3.9					
		SR4(N2)	Cloudy	Calm	12:37	4.2	Surface	1.0	1	21.2	8.2	29.3	7.5	100.5	5.6	3.2	7.5	5.5	10.4		
									2	21.2	8.2	29.3	7.5	100.6	5.5	9.6					
							Bottom	3.2	1	20.9	8.2	29.7	7.4	98.7	5.4	16.2					
				2	20.9	8.2	29.7	7.4	98.8	5.4	12.4										
		CS2A	Cloudy	Moderate	12:27	6.2	Surface	1.0	1	20.5	8.2	31.1	8.4	111.6	2.8	2.5	8.3	3.4	2.9		
									2	20.5	8.2	31.1	8.4	111.6	2.4	3.0					
							Middle	3.1	1	20.3	8.2	31.4	8.1	107.5	3.5	2.5					
									2	20.3	8.2	31.4	8.1	107.5	3.7	3.1					
							Bottom	5.2	1	20.0	8.2	31.9	7.9	105.0	4.2	3.5					
									2	20.0	8.2	31.9	7.9	104.9	4.0	2.6					
		SR3(N)	Cloudy	Calm	11:56	4.8	Surface	1.0	1	20.6	8.2	29.4	7.7	101.1	5.8	6.5	7.7	5.8	7.5		
									2	20.6	8.2	29.4	7.7	101.7	6.1	7.4					
							Bottom	3.8	1	20.6	8.2	29.4	7.6	100.2	5.6	7.7					
									2	20.6	8.2	29.4	7.7	101.2	5.8	8.4					
							Surface	1.0	1	20.5	8.2	31.6	7.7	101.6	2.1	1.9					
									2	20.6	8.2	31.5	7.9	107.1	1.9	1.7					
		24-02-21	Mid-Flood	CS(M05)	Cloudy	Moderate	16:58	12.8	Surface	1.0	1	20.0	8.1	32.2	7.3	97.7	2.7	2.3	7.6	2.5	2.3
											2	20.0	8.1	32.2	7.3	97.6	2.5	2.7			
Middle	6.4								1	20.0	8.1	32.2	7.3	97.7	2.7	2.3					
									2	20.0	8.1	32.2	7.3	97.6	2.5	2.7					
Bottom	11.8								1	19.9	8.1	32.3	7.4	97.9	2.9	2.7					
									2	19.9	8.1	32.3	7.4	98.0	3.1	2.2					
SR4(N2)	Cloudy			Calm	15:27	4.2	Surface	1.0	1	21.1	8.2	29.5	7.8	104.5	3.1	8.6	7.9	3.1	8.9		
									2	21.1	8.2	29.6	7.9	105.5	3.2	8.8					
							Bottom	3.2	1	21.1	8.2	29.6	7.8	103.7	3.1	9.0					
				2	21.1	8.2	29.6	7.9	105.0	3.1	9.1										
CS2A	Cloudy			Moderate	14:50	6.3	Surface	1.0	1	20.6	8.2	31.2	8.4	112.3	2.9	2.5	8.3	3.6	3.0		
									2	20.6	8.2	31.2	8.4	111.8	3.0	2.8					
							Middle	3.2	1	20.4	8.2	31.4	8.1	108.2	3.5	2.9					
									2	20.4	8.2	31.4	8.2	109.2	3.6	2.3					
							Bottom	5.3	1	19.9	8.2	32.1	8.0	105.8	4.5	3.2					
									2	19.9	8.2	32.1	8.1	107.9	4.3	4.1					
SR3(N)	Cloudy			Calm	16:08	5.3	Surface	1.0	1	20.4	8.2	29.9	7.7	101.9	7.2	3.0	7.8	7.2	3.3		
									2	20.4	8.2	30.0	7.8	102.6	6.9	3.7					
							Bottom	4.3	1	20.3	8.2	30.4	7.6	100.8	7.5	2.7					
									2	20.4	8.2	30.1	7.7	102.2	7.3	3.8					