



ANNEX F3

WATER QUALITY MONITORING RESULTS

Annex F3 - Water Quality Monitoring Results

Water Quality Monitoring Data (for Works Contract No. ND/2024/09)

Date	Station	Weather Condition	River Condition	Start Time	Water Depth	Replicate	Sample Water Level	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS		Current Direction	Current Velocity
(yyyy-mm-dd)				(hh:mm)	(m)		(Surface/Middle/Bottom)	(°C)				(ppt)		(%)		(mg/L)		(NTU)		(mg/L)		(No current / Downstream)	(No current / m/s)
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
2025-09-30	U2a	Sunny	Calm	8:41	0.12	1st	Middle	24.7	24.6	6.8	6.8	0.1	0.1	94.1	93.9	7.8	7.8	7.3	7.3	3.8	3.4	Downstream	0.28
			Calm	8:41	0.12	2nd	Middle	24.6		6.8		0.1		93.6		7.8		7.3		3.0		Downstream	0.28
	U2b'		Calm	8:55	0.10	1st	Middle	26.2	26.2	7.0	7.0	0.0	0.0	107.2	107.7	8.7	8.7	3.8	3.5	3.6	3.6	Downstream	0.83
			Calm	8:55	0.10	2nd	Middle	26.2		7.0		0.0		108.2		8.8		3.3		3.6		Downstream	0.83
	G2		Calm	9:12	0.10	1st	Middle	25.9	25.9	7.1	7.1	0.1	0.1	68.7	69.0	5.6	5.6	6.2	6.4	17.0	15.7	Downstream	0.10
			Calm	9:12	0.10	2nd	Middle	25.9		7.1		0.1		69.2		5.6		6.5		14.4		Downstream	0.10
	D2a		Calm	9:49	0.12	1st	Middle	27.4	27.4	7.0	7.0	0.1	0.1	35.7	35.6	2.8	2.8	1.9	1.9	3.5	5.5	Downstream	0.11
			Calm	9:49	0.12	2nd	Middle	27.5		7.0		0.1		35.5		2.8		2.0		7.6		Downstream	0.11
	D2b'		Calm	10:51	0.22	1st	Middle	31.2	31.2	7.6	7.6	0.7	0.7	77.7	78.2	5.7	5.8	20.8	20.8	11.8	12.2	Downstream	0.24
			Calm	10:51	0.22	2nd	Middle	31.2		7.6		0.7		78.6		5.8		20.8		12.5		Downstream	0.24
	D2c		Calm	11:00	0.28	1st	Middle	27.7	27.7	7.3	7.3	0.2	0.2	33.3	33.1	2.6	2.6	24.6	24.0	11.7	11.8	Downstream	0.72
			Calm	11:01	0.28	2nd	Middle	27.7		7.3		0.2		32.8		2.6		23.3		12.0		Downstream	0.72
	D2d		Calm	9:31	0.31	1st	Middle	27.1	27.1	7.0	6.9	0.1	0.1	107.3	107.2	8.5	8.5	21.5	21.6	7.9	7.4	Downstream	0.09
			Calm	9:31	0.31	2nd	Middle	27.1		6.9		0.1		107.1		8.5		21.6		6.9		Downstream	0.09
	D7		Calm	10:20	0.12	1st	Middle	27.0	27.0	6.7	6.7	0.1	0.1	16.2	15.5	1.3	1.2	1.0	1.1	1.6	1.7	Downstream	0.05
			Calm	10:21	0.12	2nd	Middle	27.0		6.7		0.1		14.7		1.2		1.3		1.8		Downstream	0.05
	D8		Calm	10:33	0.10	1st	Middle	27.4	27.4	7.5	7.5	0.2	0.2	36.6	35.7	2.9	2.8	7.8	7.8	3.3	2.9	Downstream	0.03
			Calm	10:33	0.10	2nd	Middle	27.4		7.5		0.2		34.7		2.7		7.8		2.5		Downstream	0.03

Annex F3 - Water Quality Monitoring Results

Water Quality Monitoring Data (for Works Contract No. ND/2024/10)

Date	Station	Weather Condition	River Condition	Start Time	Water Depth	Replicate	Sample Water Level	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS		Current Direction	Current Velocity
(yyyy-mm-dd)				(hh:mm)	(m)		(Surface/Middle/Bottom)	(°C)				(ppt)		(%)		(mg/L)		(NTU)		(mg/L)		(No current / Downstream)	(No current / m/s)
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
2025-09-19	U1a	Cloudy	Calm	9:11	0.12	1st	Middle	25.0	25.0	6.8	6.8	0.0	0.0	87.4	87.4	7.2	7.2	4.3	4.2	4.0	3.9	Downstream	0.23
			Calm	9:11	0.12	2nd	Middle	25.0		6.8		0.0		87.3		7.2		4.0		3.9		Downstream	0.23
	U1b'		Calm	9:32	0.22	1st	Middle	26.9	26.9	7.2	7.1	0.1	0.1	87.8	88.0	7.0	7.0	68.0	69.2	74.4	75.2	Downstream	0.10
			Calm	9:32	0.22	2nd	Middle	26.9		7.1		0.1		88.1		7.0		70.3		76.0		Downstream	0.10
	G1a		Calm	8:49	0.10	1st	Middle	25.9	25.9	7.2	7.2	0.1	0.1	92.9	92.9	7.6	7.6	3.5	3.6	2.8	2.6	Downstream	0.41
			Calm	8:49	0.10	2nd	Middle	25.9		7.1		0.1		92.9		7.6		3.6		2.4		Downstream	0.41
	G1b		Calm	8:33	0.38	1st	Middle	25.6	26.1	7.2	7.2	0.1	0.1	42.3	42.6	3.5	3.5	12.1	12.0	14.8	15.0	Downstream	0.09
			Calm	8:34	0.38	2nd	Middle	26.5		7.2		0.1		42.9		3.5		11.9		15.3		Downstream	0.09
	G1c		Calm	10:01	0.20	1st	Middle	27.1	27.1	7.2	7.2	0.1	0.1	49.8	49.8	4.0	4.0	5.5	5.6	7.8	9.1	Downstream	0.42
			Calm	10:01	0.20	2nd	Middle	27.1		7.2		0.1		49.7		4.0		5.8		10.3		Downstream	0.42
	G1d		Calm	9:47	0.20	1st	Middle	27.1	27.1	7.4	7.4	0.1	0.1	81.7	81.9	6.5	6.5	11.3	12.4	9.4	9.9	Downstream	0.06
			Calm	9:47	0.20	2nd	Middle	27.1		7.4		0.1		82.0		6.5		13.6		10.3		Downstream	0.06
	D1'		Calm	10:13	0.32	1st	Middle	27.5	27.5	7.2	7.2	0.4	0.4	25.6	25.4	2.0	2.0	14.3	14.5	10.1	8.3	Downstream	0.07
			Calm	10:13	0.32	2nd	Middle	27.5		7.2		0.4		25.2		2.0		14.7		6.4		Downstream	0.07

Date	Station	Weather Condition	River Condition	Start Time	Water Depth	Replicate	Sample Water Level	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS		Current Direction	Current Velocity
(hh:mm)				(m)	(Surface/Middle/Bottom)		(°C)		(ppt)			(%)		(mg/L)		(NTU)		(mg/L)		(No current / Downstream)	(No current / m/s)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value			Average	
2025-09-22	U1a	Cloudy	Calm	9:23	0.20	1st	Middle	25.1	25.1	6.3	6.3	0.0	0.0	92.8	92.8	7.7	7.7	3.8	3.9	2.5	2.7	Downstream	0.22
	Calm		9:23	0.20	2nd	Middle	25.1	6.3		0.0		92.8		7.7		3.9		3.0		Downstream		0.22	
	U1b'		Calm	9:46	0.22	1st	Middle	26.6	26.6	8.0	8.0	0.1	0.1	78.2	79.2	6.3	6.4	76.3	77.0	41.4	31.4	Downstream	0.05
			Calm	9:47	0.22	2nd	Middle	26.6		8.0		0.1		80.2		6.4		77.7		21.5		Downstream	0.05
	G1a		Calm	8:59	0.12	1st	Middle	25.3	25.3	6.8	6.8	0.0	0.0	122.3	122.8	10.1	10.1	11.8	11.7	4.4	4.5	Downstream	0.85
			Calm	9:00	0.12	2nd	Middle	25.3		6.9		0.0		123.3		10.1		11.5		4.7		Downstream	0.85
	G1b		Calm	8:44	0.35	1st	Middle	26.0	26.0	6.7	6.7	0.1	0.1	105.9	108.1	8.6	8.8	8.2	8.0	10.5	10.5	Downstream	0.31
			Calm	8:45	0.35	2nd	Middle	26.0		6.7		0.1		110.2		8.9		7.9		10.5		Downstream	0.31
	G1c		Calm	10:43	0.60	1st	Middle	27.0	27.0	7.5	7.5	0.2	0.2	50.9	50.9	4.1	4.1	20.4	20.5	16.9	15.9	Downstream	0.08
			Calm	10:44	0.60	2nd	Middle	27.0		7.5		0.2		50.8		4.1		20.6		14.9		Downstream	0.08
	G1d		Calm	10:27	0.70	1st	Middle	27.1	27.1	7.3	7.3	0.1	0.1	56.7	59.3	4.5	4.7	47.7	49.2	12.9	13.3	Downstream	0.10
			Calm	10:28	0.70	2nd	Middle	27.1		7.3		0.1		61.9		4.9		50.6		13.8		Downstream	0.10
	D1'		Calm	10:58	0.90	1st	Middle	27.8	27.8	7.2	7.2	0.2	0.2	26.0	27.5	2.0	2.2	41.0	40.4	19.9	21.0	Downstream	0.09
			Calm	10:58	0.90	2nd	Middle	27.9		7.2		0.2		28.9		2.3		39.8		22.2		Downstream	0.09

Date	Station	Weather Condition	River Condition	Start Time	Water Depth	Replicate	Sample Water Level	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS		Current Direction	Current Velocity
(yyyy-mm-dd)				(hh:mm)	(m)		(Surface/Middle/Bottom)	(°C)				(ppt)		(%)		(mg/L)		(NTU)		(mg/L)		(No current / Downstream)	(No current / m/s)
Value				Average	Value		Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
2025-09-26	U1a	Fine	Calm	9:26	0.13	1st	Middle	25.0	25.0	6.1	6.1	0.0	0.0	94.8	95.0	7.8	7.8	525.0	540.0	94.6	87.9	Downstream	0.88
	Calm		9:26	0.13	2nd	Middle	25.0	6.1		0.0		95.1		7.9		555.0		81.1		Downstream		0.88	
	U1b'		Calm	9:51	0.20	1st	Middle	26.0	26.0	6.7	6.7	0.1	0.1	104.7	104.7	8.5	8.5	24.8	23.6	28.8	25.3	Downstream	0.07
	Calm		9:52	0.20	2nd	Middle	26.0	6.7		0.1		104.6		8.5		22.3		21.7		Downstream		0.07	
	G1a		Calm	9:01	0.11	1st	Middle	25.3	25.3	6.5	6.5	0.0	0.0	100.9	102.0	8.3	8.4	6.2	6.2	27.7	24.9	Downstream	1.72
	Calm		9:02	0.11	2nd	Middle	25.3	6.4		0.0		103.0		8.5		6.3		22.2		Downstream		1.72	
	G1b		Calm	8:46	0.38	1st	Middle	25.8	25.8	7.0	7.0	0.1	0.1	107.7	107.2	8.8	8.7	7.9	7.9	37.3	29.8	Downstream	0.45
	Calm		8:47	0.38	2nd	Middle	25.8	7.0		0.1		106.6		8.7		7.9		22.2		Downstream		0.45	
	G1c		Calm	10:21	0.25	1st	Middle	26.6	26.6	7.3	7.3	0.1	0.1	84.1	84.1	6.8	6.8	7.5	7.6	29.4	59.3	Downstream	0.65
	Calm		10:21	0.25	2nd	Middle	26.6	7.3		0.1		84.1		6.8		7.6		89.2		Downstream		0.65	
	G1d		Calm	10:09	0.25	1st	Middle	26.7	26.7	6.8	6.8	0.1	0.1	76.1	77.2	6.1	6.2	32.5	31.5	15.7	25.1	Downstream	0.08
	Calm		10:09	0.25	2nd	Middle	26.7	6.8		0.1		78.3		6.3		30.4		34.4		Downstream		0.08	
	D1'		Calm	10:36	0.50	1st	Middle	26.8	26.8	7.1	7.1	0.2	0.2	45.6	46.2	3.7	3.7	15.7	15.8	27.8	31.1	Downstream	0.07
Calm	10:37	0.50	2nd	Middle	26.8	7.1	0.2	46.7		3.7		15.8		34.5		Downstream		0.07					

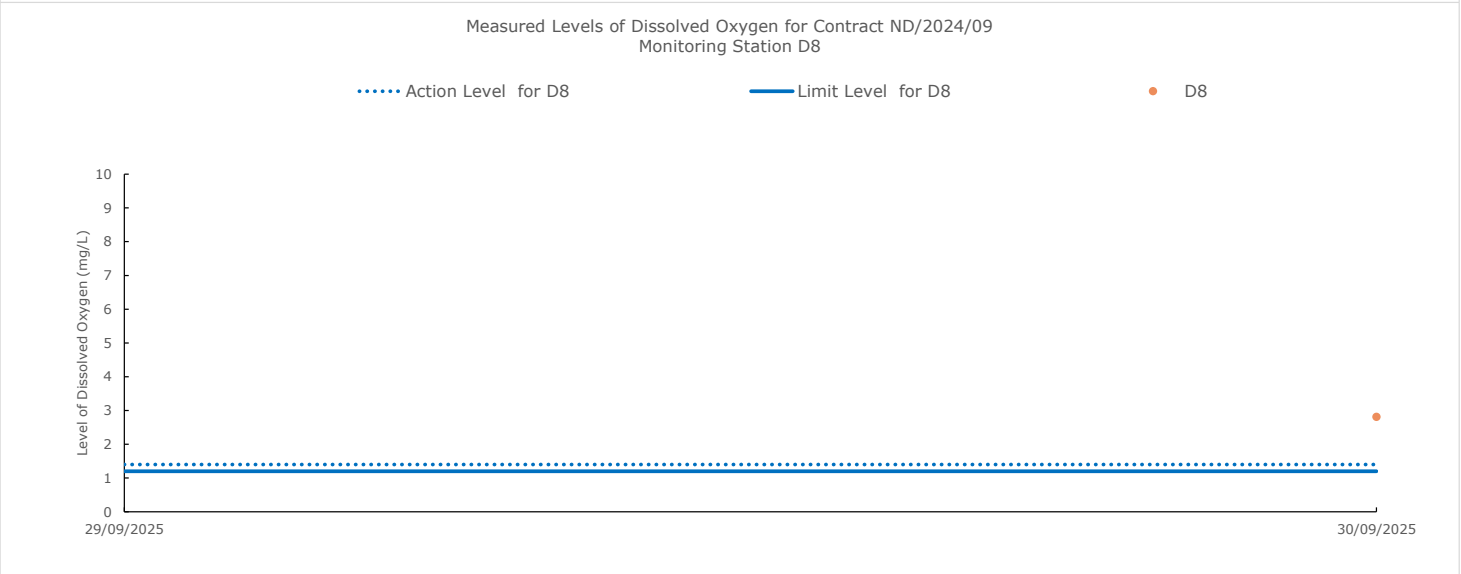
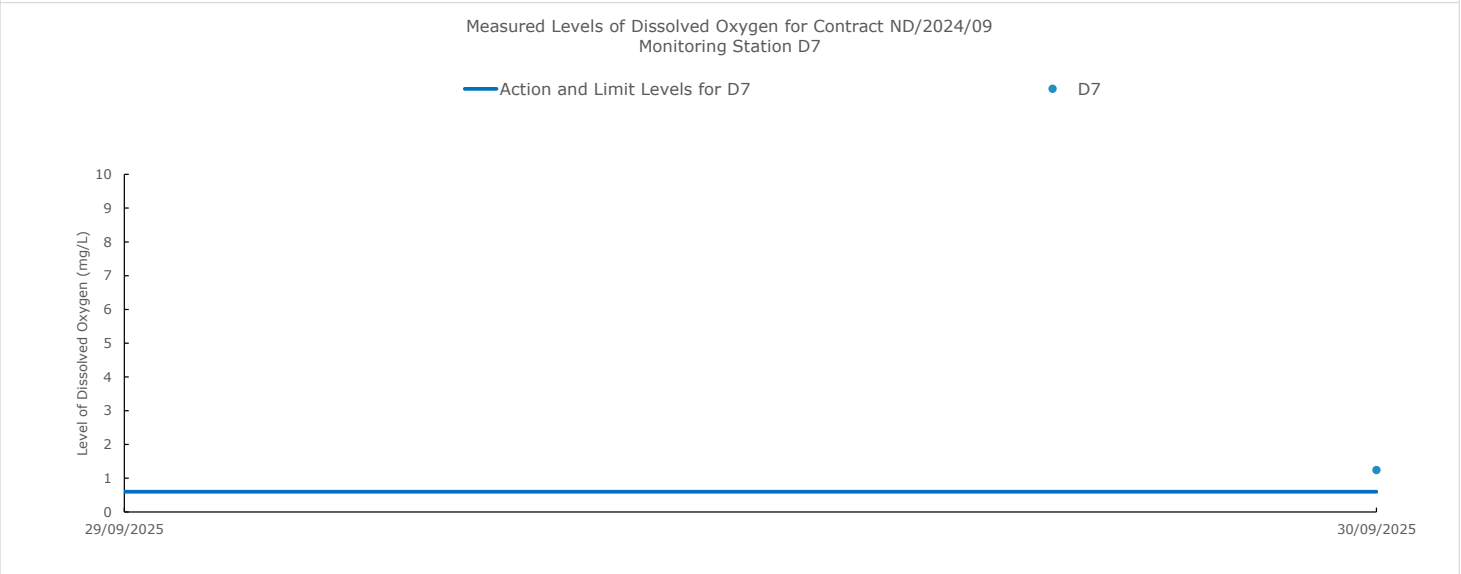
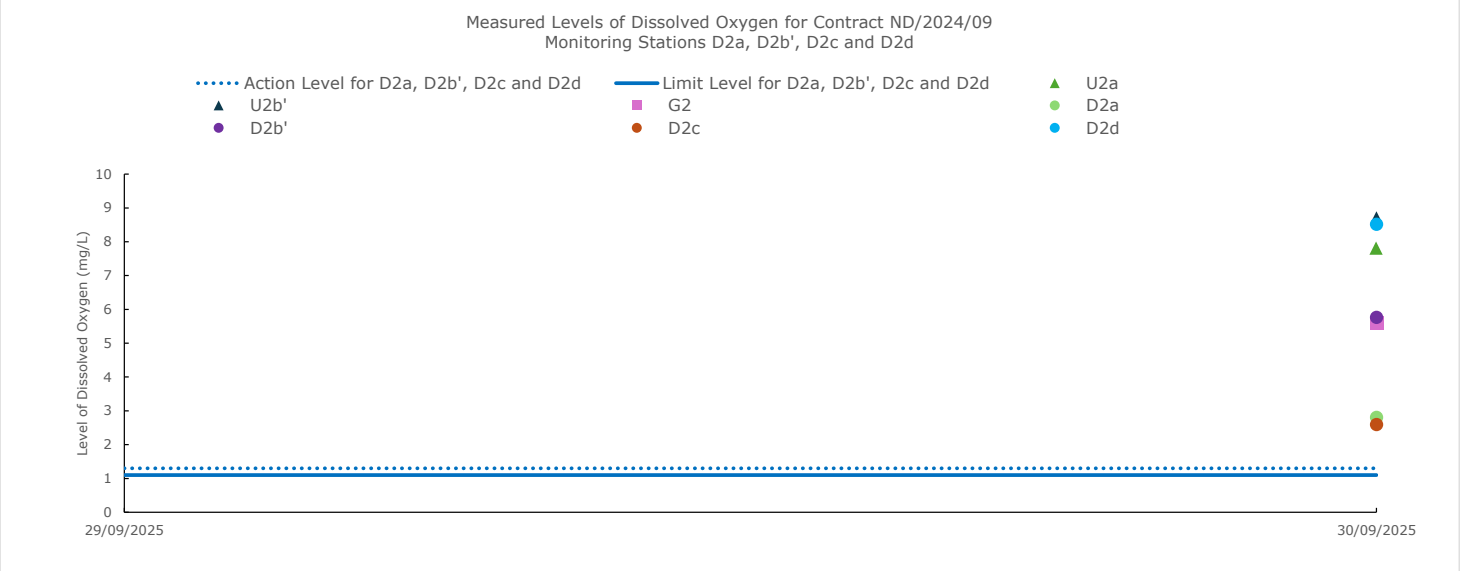
Annex F3 - Water Quality Monitoring Results

Water Quality Monitoring Data (for Works Contract No. ND/2024/10)

Date	Station	Weather Condition	River Condition	Start Time	Water Depth	Replicate	Sample Water Level	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS		Current Direction	Current Velocity
(yyyy-mm-dd)				(hh:mm)	(m)		(Surface/Middle/Bottom)	(°C)				(ppt)		(%)		(mg/L)		(NTU)		(mg/L)		(No current / Downstream)	(No current / m/s)
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2025-09-29	U1a	Sunny	Calm	9:26	0.10	1st	Middle	25.6	25.6	5.9	5.9	0.0	0.0	98.1	98.2	8.0	8.0	6.5	6.6	13.9	36.3	Downstream	0.32
			Calm	9:26	0.10	2nd	Middle	25.6		5.9		0.0		98.2		8.0		6.7		58.8		Downstream	0.32
	U1b'		Calm	9:51	0.18	1st	Middle	26.8	26.8	8.4	8.4	0.1	0.1	81.4	83.2	6.5	6.7	54.3	53.3	9.4	6.5	Downstream	0.19
			Calm	9:51	0.18	2nd	Middle	26.8		8.4		0.1		84.9		6.8		52.2		3.5		Downstream	0.19
	G1a		Calm	9:03	0.11	1st	Middle	25.6	25.6	6.1	6.1	0.1	0.1	110.2	110.2	9.0	9.0	7.9	7.8	37.5	38.8	Downstream	0.49
			Calm	9:03	0.11	2nd	Middle	25.6		6.1		0.1		110.1		9.0		7.7		40.2		Downstream	0.49
	G1b		Calm	10:50	0.40	1st	Middle	26.2	26.2	6.8	6.7	0.1	0.1	116.2	115.5	9.4	9.3	5.7	5.6	6.1	9.1	Downstream	0.31
			Calm	10:50	0.40	2nd	Middle	26.2		6.7		0.1		114.7		9.3		5.6		12.2		Downstream	0.31
	G1c		Calm	10:41	0.16	1st	Middle	28.0	28.0	7.3	7.2	0.1	0.1	86.5	86.1	6.8	6.7	6.9	6.8	15.8	12.0	Downstream	0.61
			Calm	10:42	0.16	2nd	Middle	28.0		7.2		0.1		85.6		6.7		6.6		8.3		Downstream	0.61
	G1d		Calm	10:23	0.20	1st	Middle	28.3	28.3	8.4	8.4	0.1	0.1	73.2	73.1	5.7	5.7	12.9	12.6	13.7	12.2	Downstream	0.17
			Calm	10:23	0.20	2nd	Middle	28.3		8.4		0.1		73.0		5.7		12.3		10.6		Downstream	0.17
	D1'		Calm	10:54	0.45	1st	Middle	29.5	29.5	7.2	7.2	0.4	0.4	42.5	41.7	3.2	3.2	31.5	30.8	57.7	52.4	Downstream	0.10
			Calm	10:55	0.45	2nd	Middle	29.5		7.2		0.4		40.9		3.1		30.1		47.0		Downstream	0.10

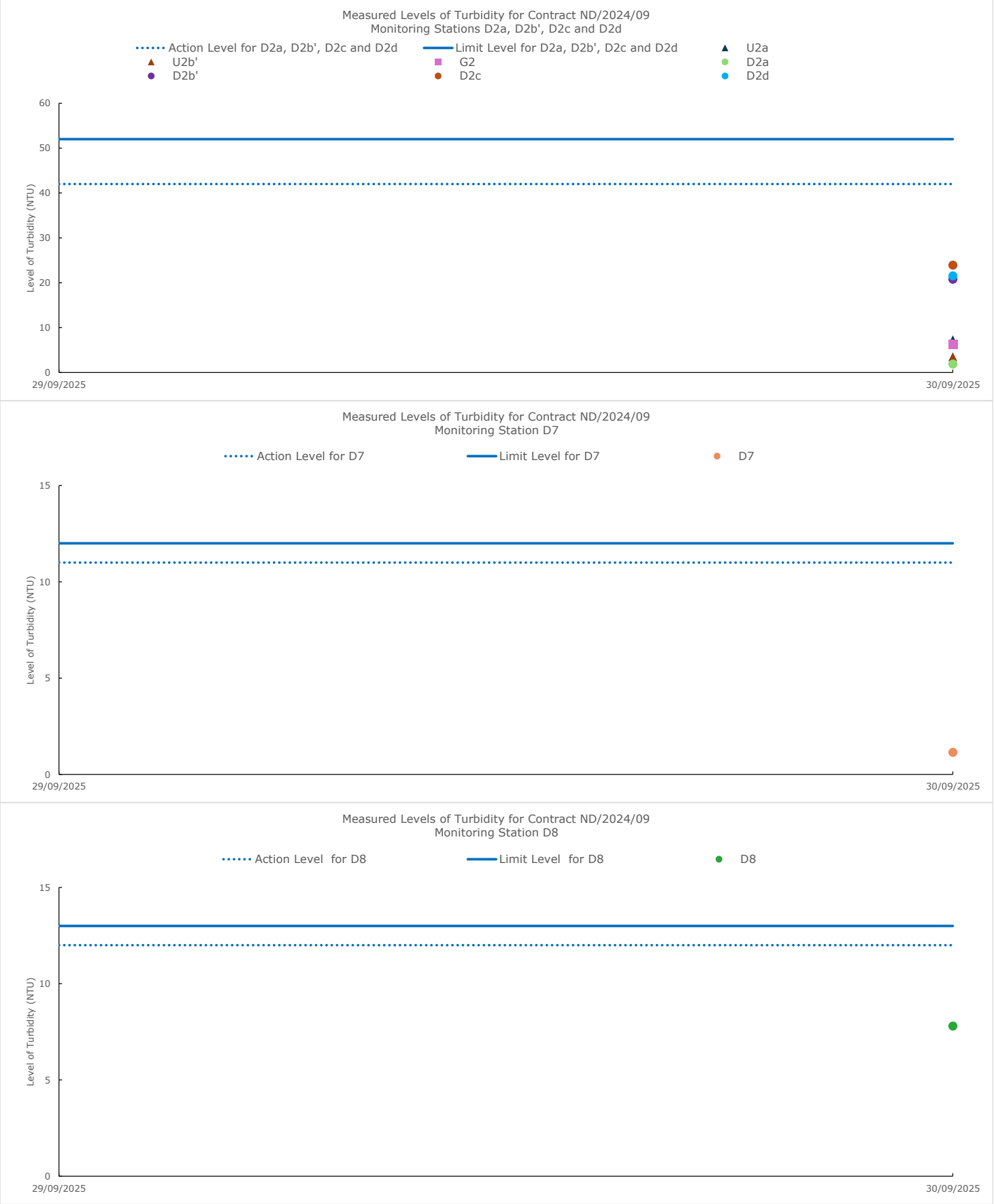
Annex F3 - Water Quality Monitoring Results

Graphical Plots of Monitoring Data (for Works Contract No. ND/2024/09)



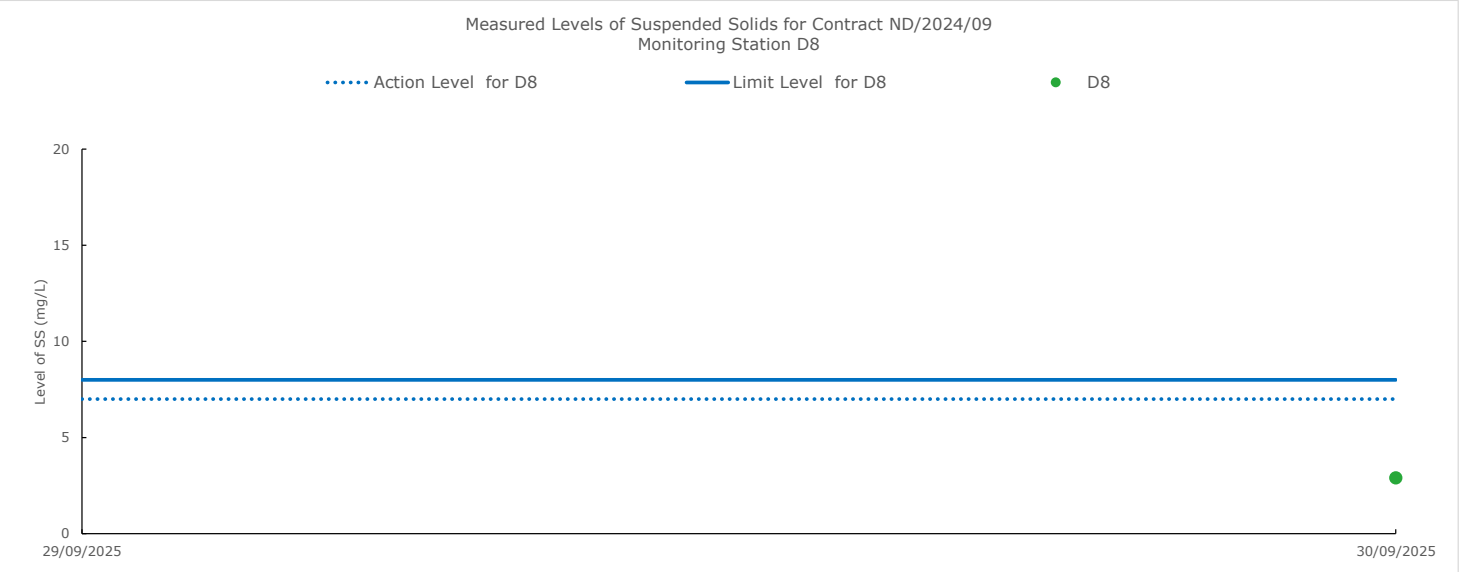
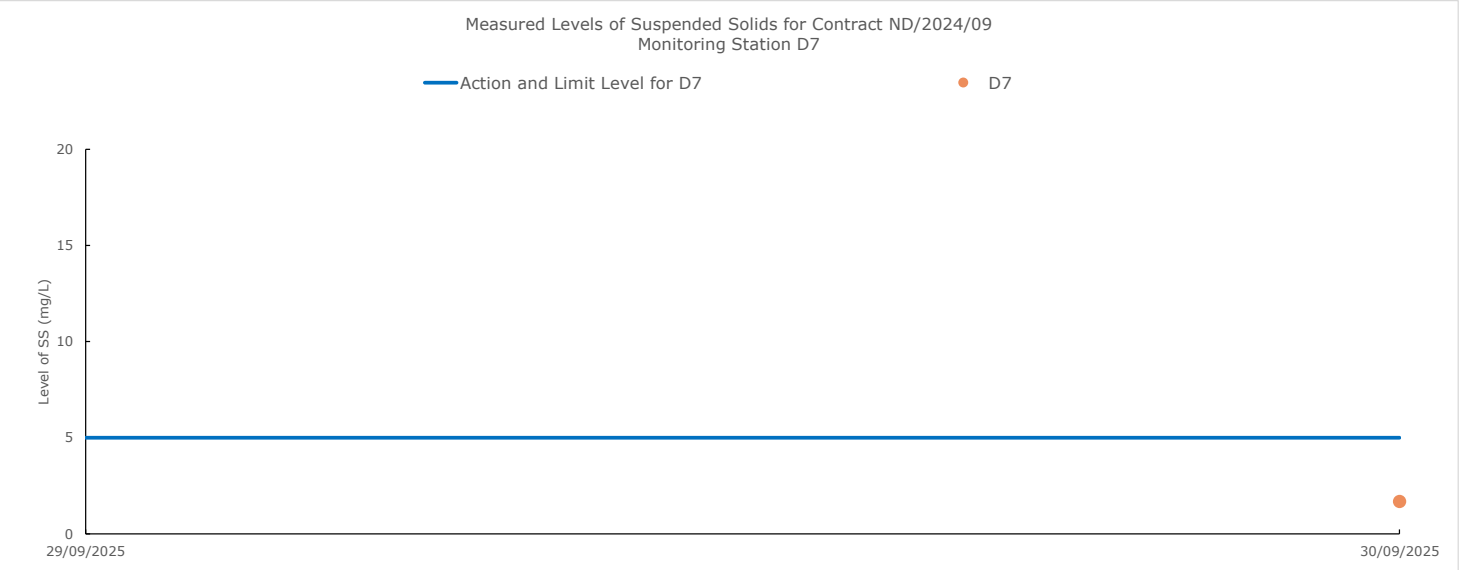
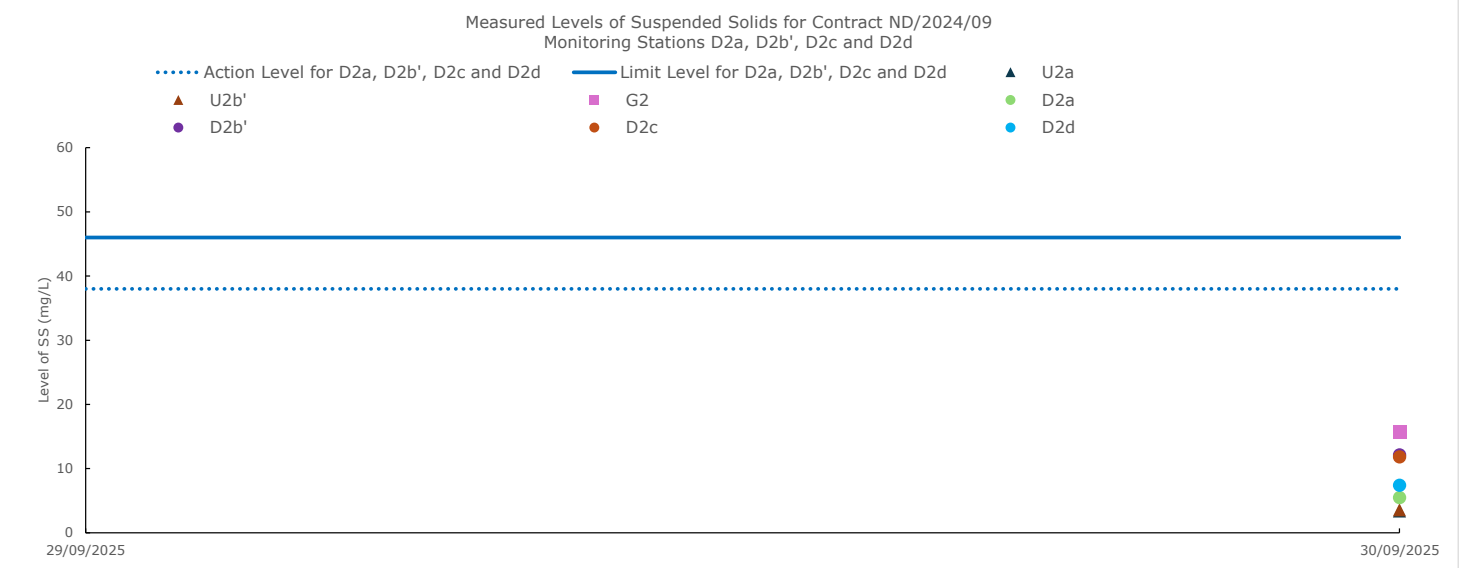
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Graphical Plots of Monitoring Data (for Works Contract No. ND/2024/09)



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