

Annex F5

Groundwater Monitoring Results

Table F5.1 Groundwater Monitoring Results

Parameters	Units	MWX-1	MWX-2	MWX-3	MWX-4	MWX-5	MWX-6	MWX-7	MWX-8	MWX-9	MWX-10	MWX-11	MWX-12	MWX-13	MWX-14
Water Level	mPD	2.70	2.84	2.79	2.69	2.71	2.65	2.42	2.53	2.89	2.93	3.23	6.62	36.50	45.13
Bicarbonate Alkalinity as CaCO ₃	mg/L	138	309	147	<1	<1	<1	8	<1	75	167	135	60	15	8
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	100	98	164	58	75	10	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	138	309	147	129	118	200	66	114	85	167	135	60	15	8
pH Value	pH Unit	8.3	7.9	8	10.7	10.6	10.8	9.8	10.7	8.6	7.9	8.1	7	5.5	5.3
Electrical Conductivity @ 25Å°C	µS/cm	747	799	1110	1110	1130	1160	2330	3050	1550	863	372	319	95	97
Ammonia as N	mg/L	0.29	0.02	1.33	6.79	1.95	3.52	5.42	12.5	5.34	0.03	0.02	<0.01	0.04	<0.01
Chloride	mg/L	116	29	197	246	193	177	681	1010	372	133	26	22	16	20
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Reactive Phosphorus as P	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.01	0.02	0.02	0.02	0.04	<0.01	<0.01
Sulphate as SO ₄ - Turbidimetric	mg/L	54	91	95	54	131	91	66	38	111	74	13	57	3	2
Sulphide as S ²⁻	mg/L	0.1	<0.1	<0.1	7.7	3.1	9.6	1.8	11.8	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	0.4	0.2	1.7	7.4	2.6	4.8	5.9	12.9	6	<0.1	0.1	<0.1	0.4	0.2
Nitrate as N	mg/L	<0.01	0.35	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.12	0.1
Total Nitrogen as N	mg/L	0.4	0.5	1.7	7.4	2.6	4.8	5.9	12.9	6	<0.1	0.1	<0.1	0.5	0.3
Boron	µg/L	120	210	180	160	170	180	480	540	380	90	50	20	10	10
Calcium	mg/L	37.6	52.1	74.4	48.8	40.4	30.8	26.3	59.9	31.8	74.3	46.5	29.5	2.3	1.53
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium	mg/L	5.22	47.4	5.64	<0.05	<0.05	<0.05	1.01	0.12	12.4	7.03	2.5	4.62	1.02	1.04
Sodium	mg/L	85.7	28.8	111	128	141	154	419	488	233	83.3	25	27	14.1	12.9
Iron	mg/L	<0.04	<0.04	0.21	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.38	<0.04	<0.04
Potassium	mg/L	20.1	9.99	27.8	34.6	51.9	55.9	57.8	54.8	36.9	11.4	6.45	3.21	4.25	4.06
Cadmium	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1
Lead	µg/L	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	417	216	956	2	<1	<1	<1	<1	8	1090	363	800	36	9
Nickel	µg/L	<1	<1	<1	2	1	2	<1	1	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	260	<10	<10	<10	<10	<10	<10	<10	<10	<10	360	20	<10
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	7	<2	8	2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	11	3	19	36	28	56	23	44	20	6	4	<2	<2	<2
Total Organic Carbon	mg/L	6	4	9	11	10	13	8	11	9	4	4	4	4	4

Figure F5.1 Graphical Presentation for Groundwater Monitoring (MWX-1)

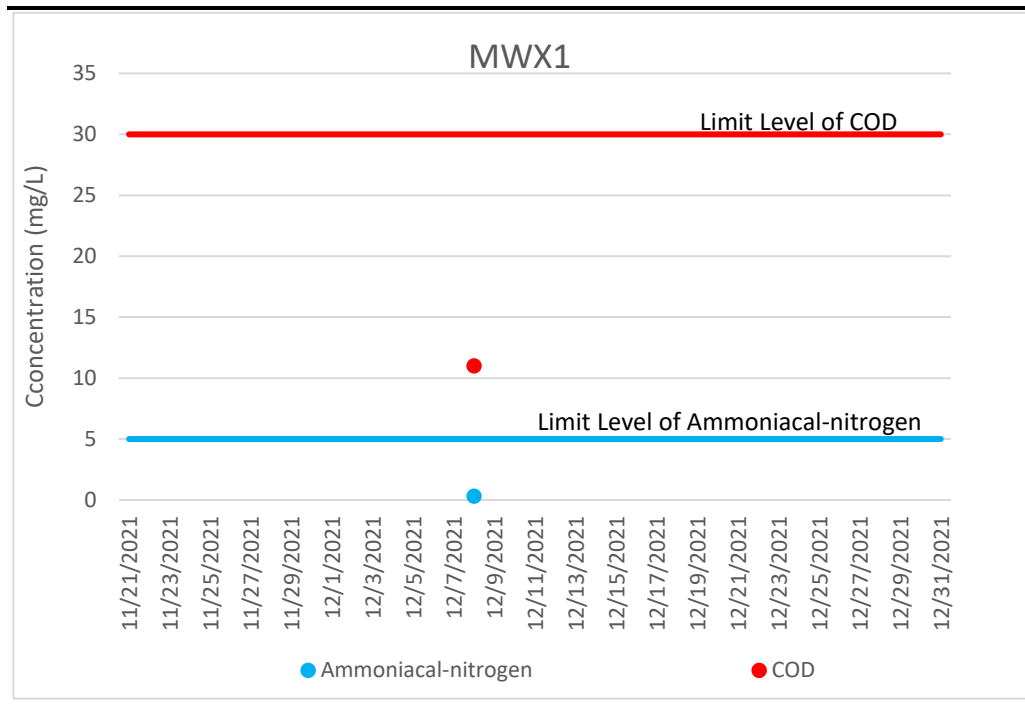


Figure F5.2 Graphical Presentation for Groundwater Monitoring (MWX-2)

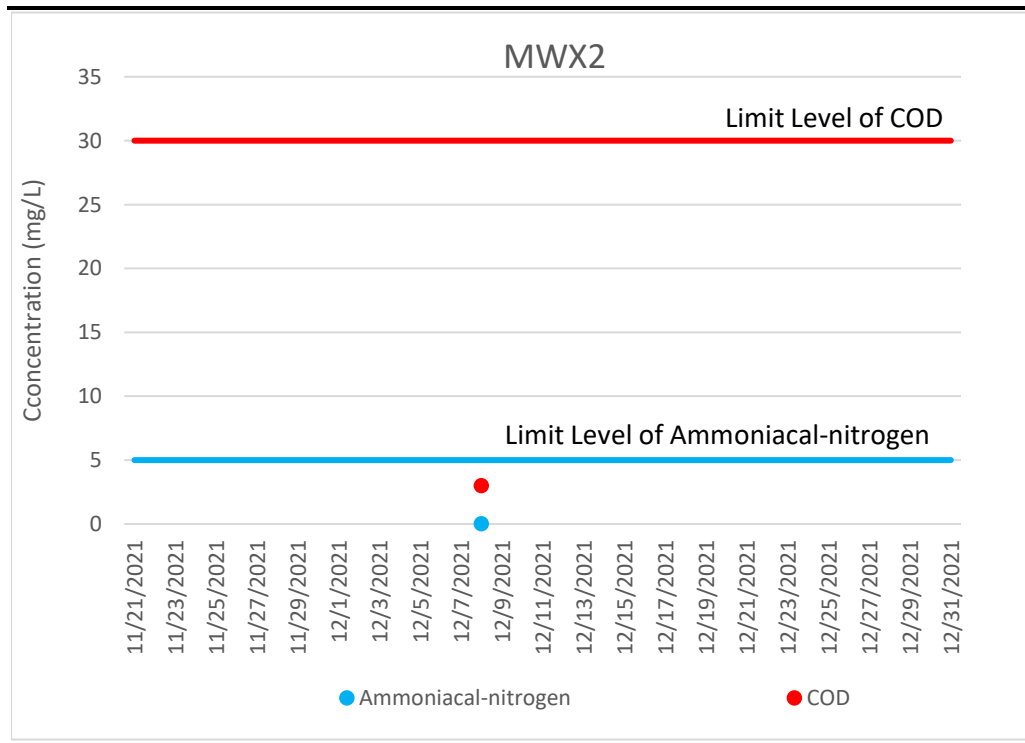


Figure F5.3 Graphical Presentation for Groundwater Monitoring (MWX-3)

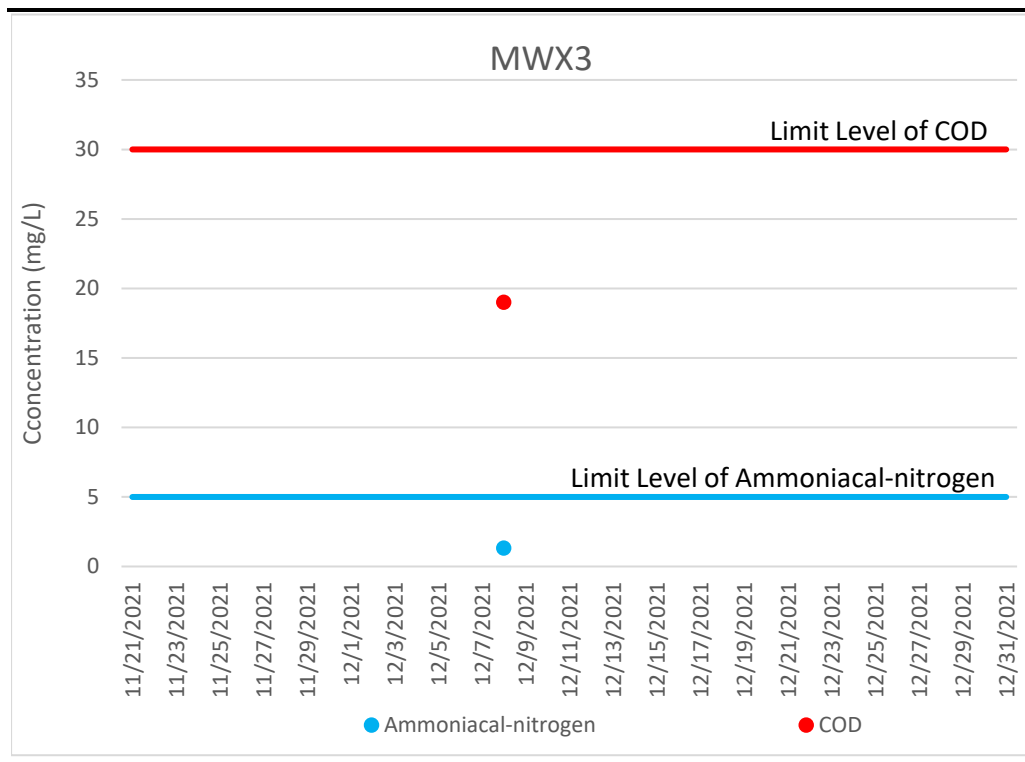


Figure F5.4 Graphical Presentation for Groundwater Monitoring (MWX-4)

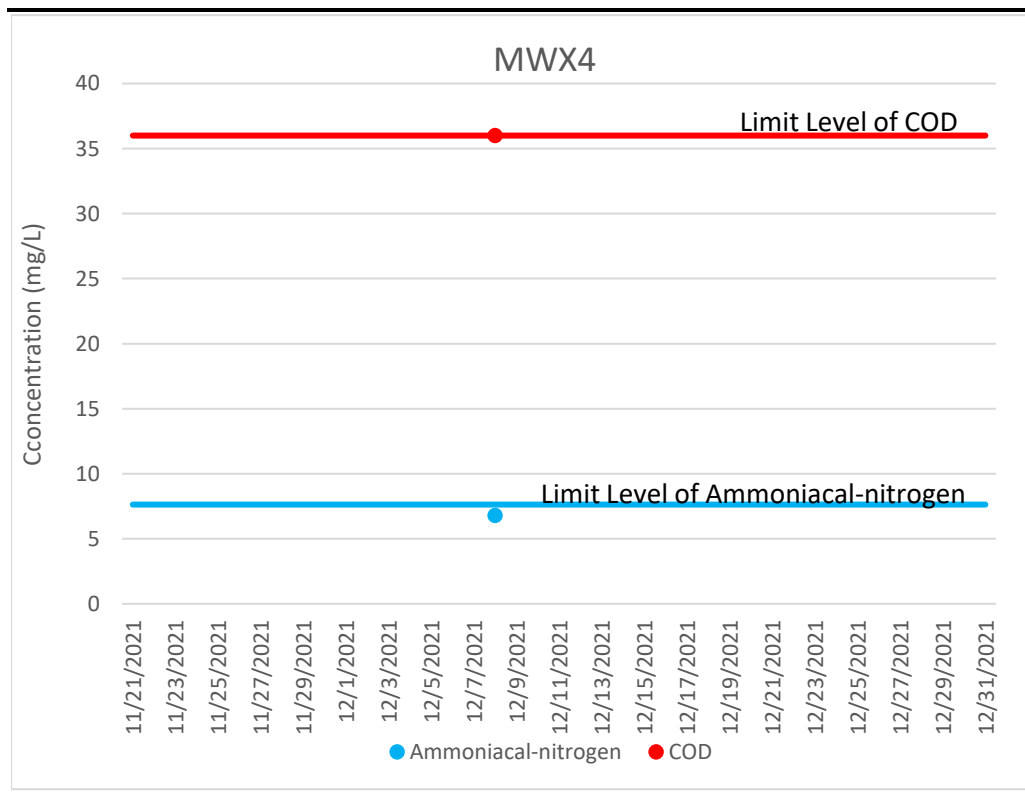


Figure F5.5 Graphical Presentation for Groundwater Monitoring (MWX-5)

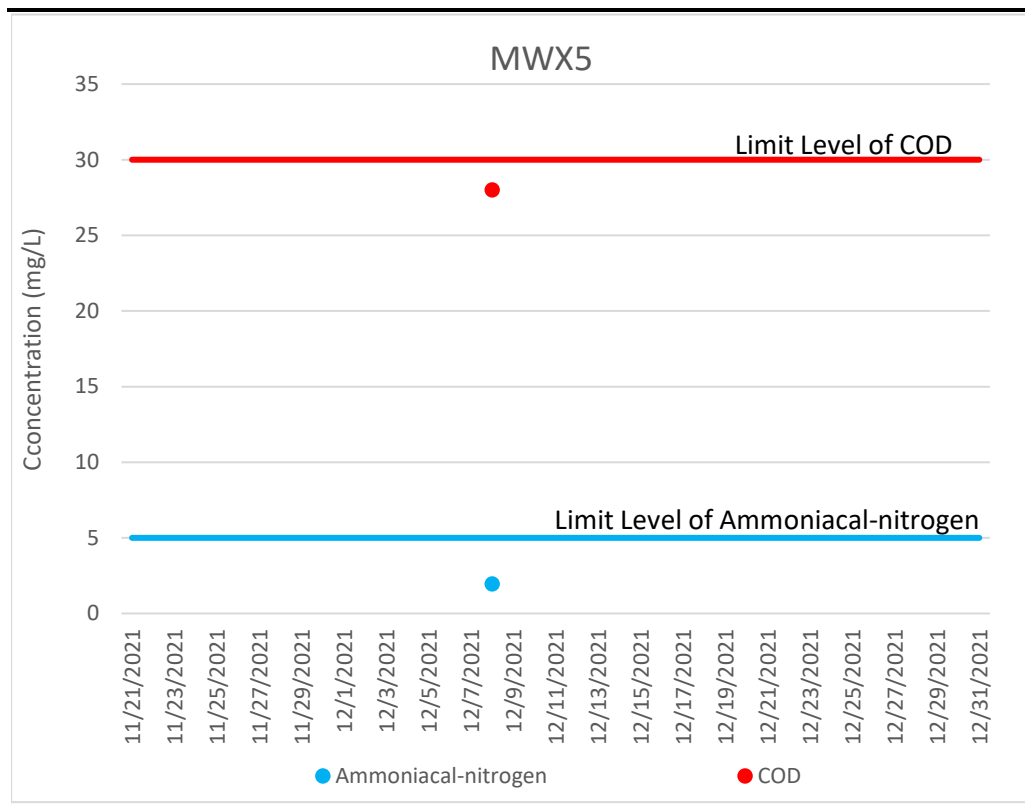


Figure F5.6 Graphical Presentation for Groundwater Monitoring (MWX-6)

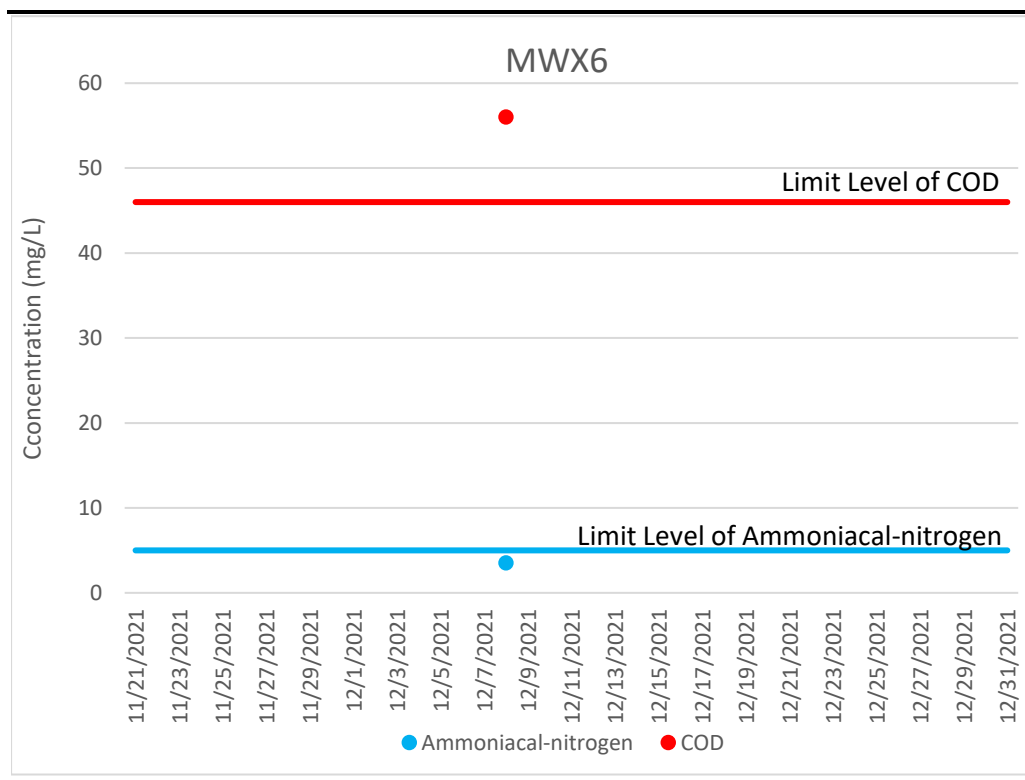


Figure F5.7 Graphical Presentation for Groundwater Monitoring (MWX-7)

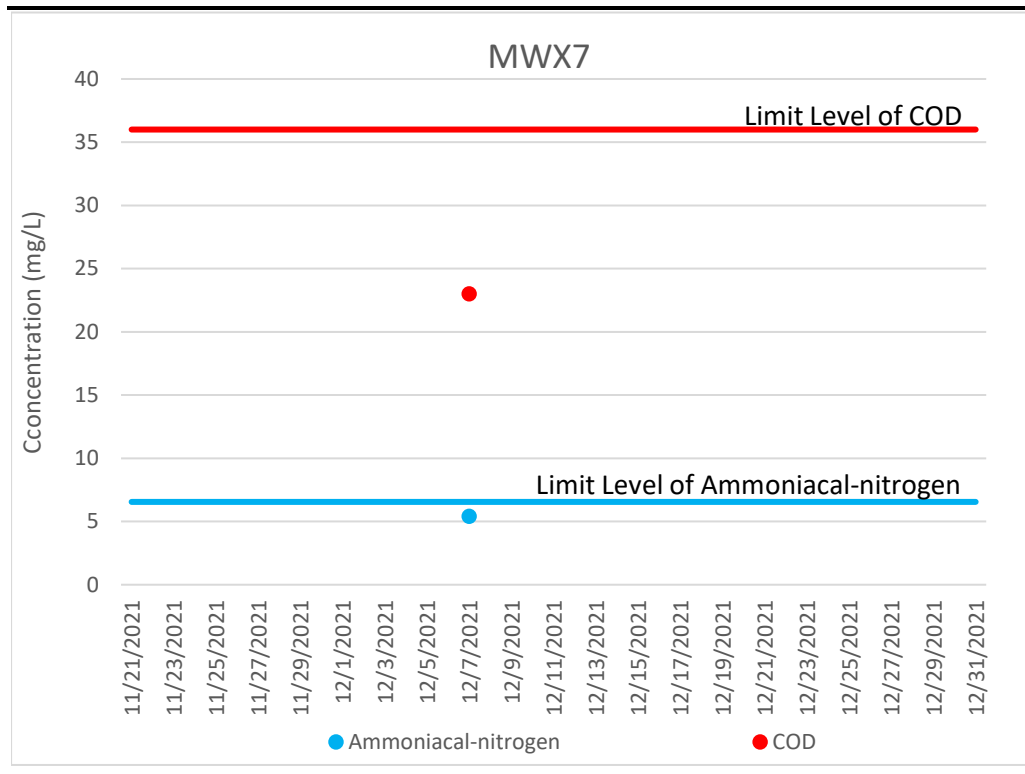


Figure F5.8 Graphical Presentation for Groundwater Monitoring (MWX-8)

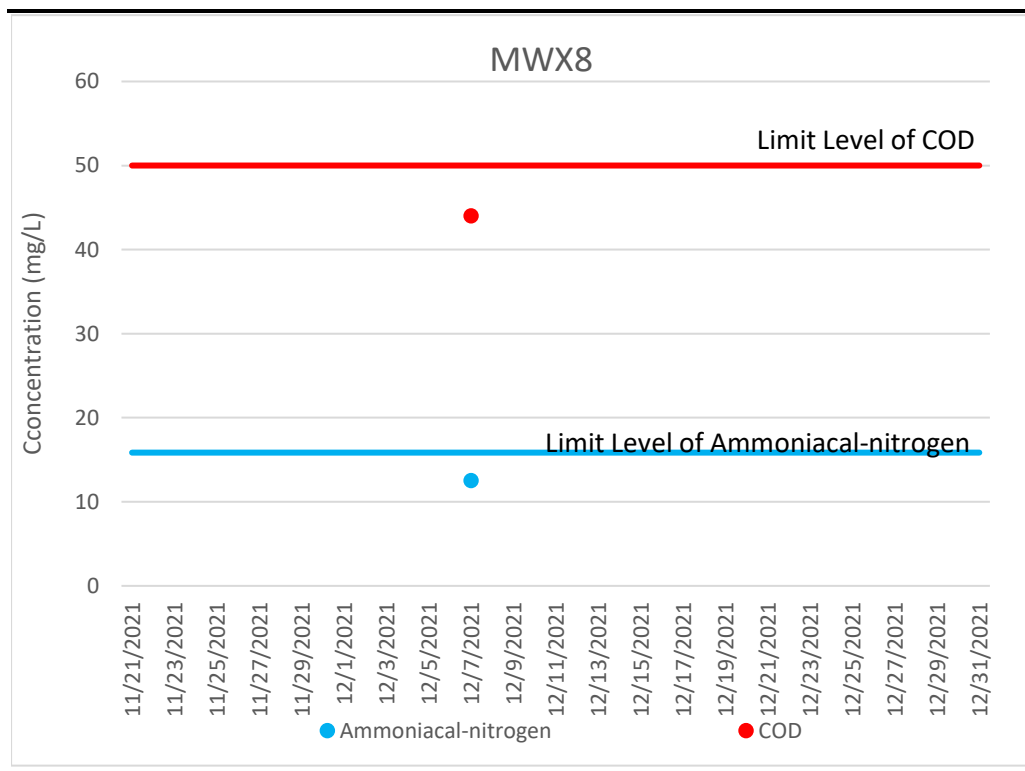


Figure F5.9 Graphical Presentation for Groundwater Monitoring (MWX-9)

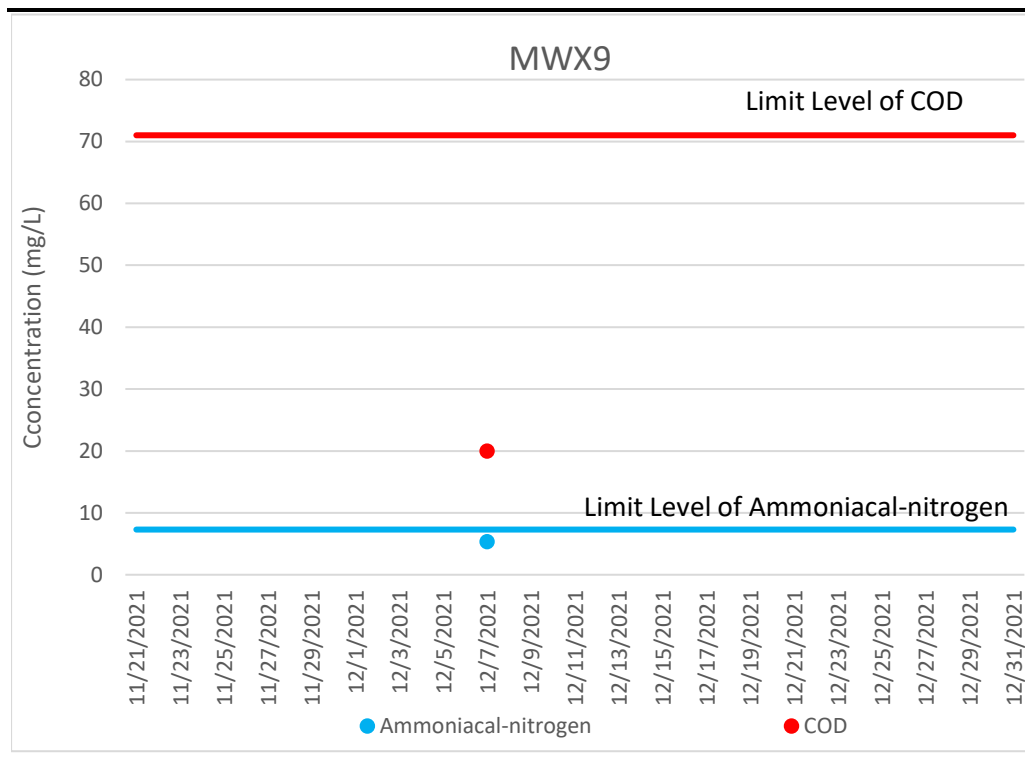


Figure F5.10 Graphical Presentation for Groundwater Monitoring (MWX-10)

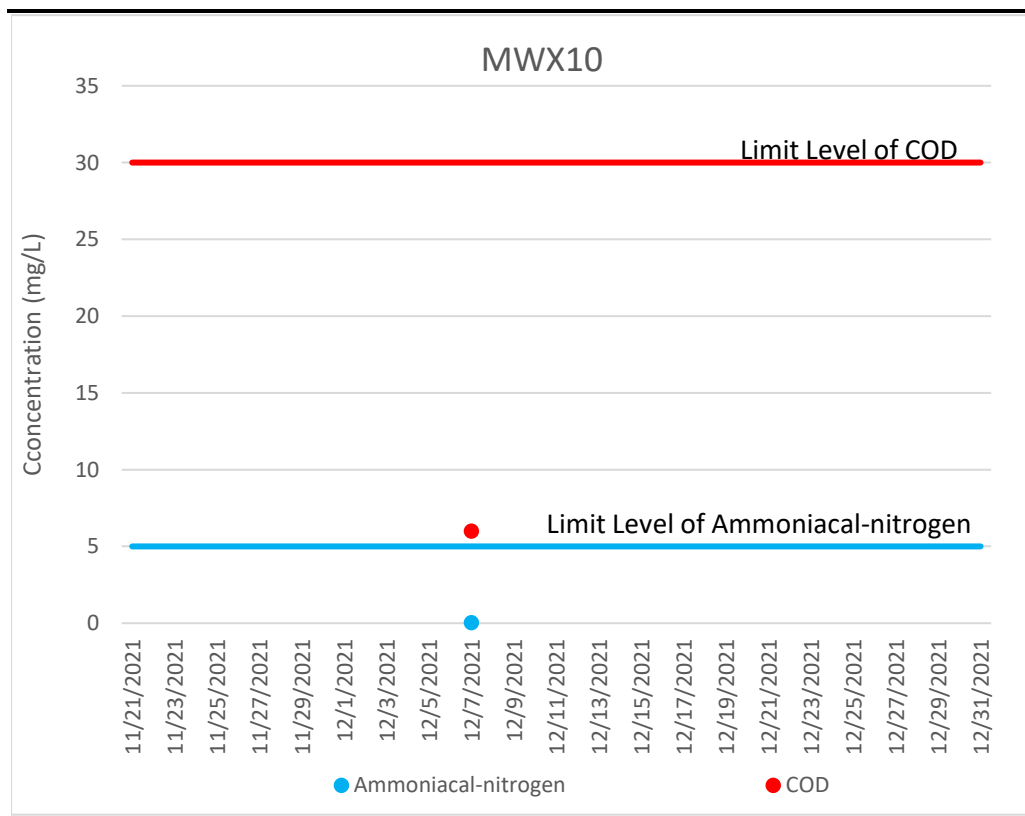


Figure F5.11 Graphical Presentation for Groundwater Monitoring (MWX-11)

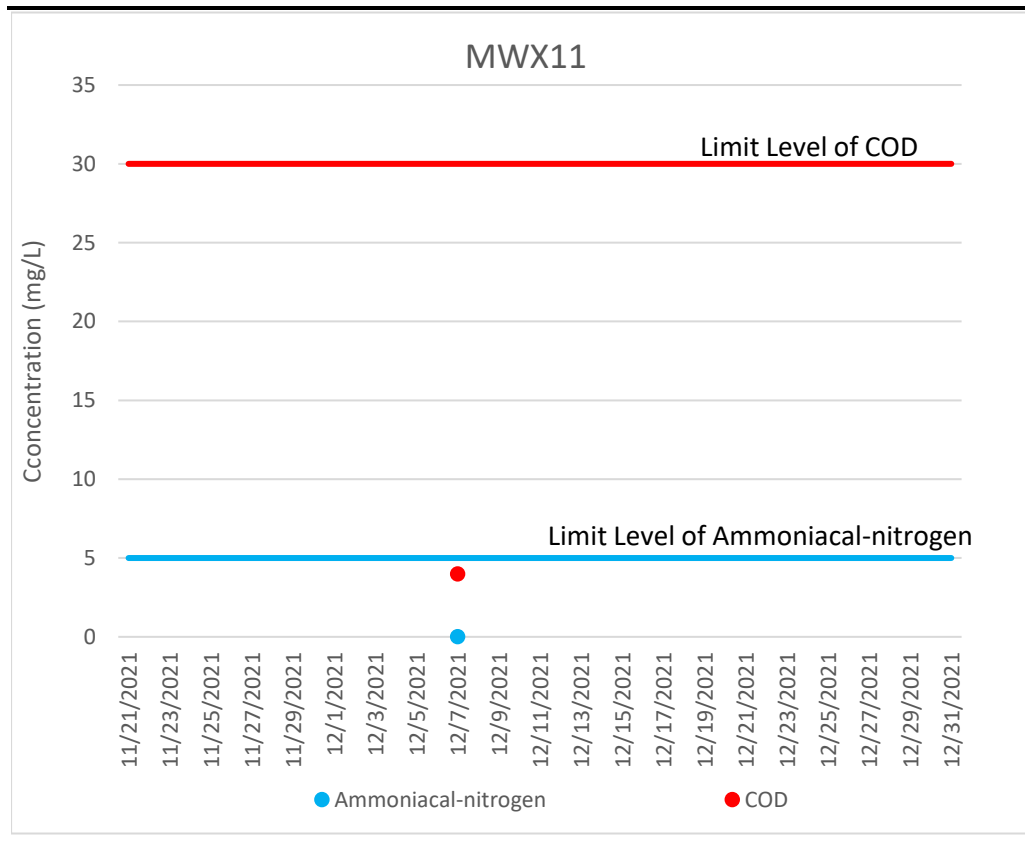


Figure F5.12 Graphical Presentation for Groundwater Monitoring (MWX-12)

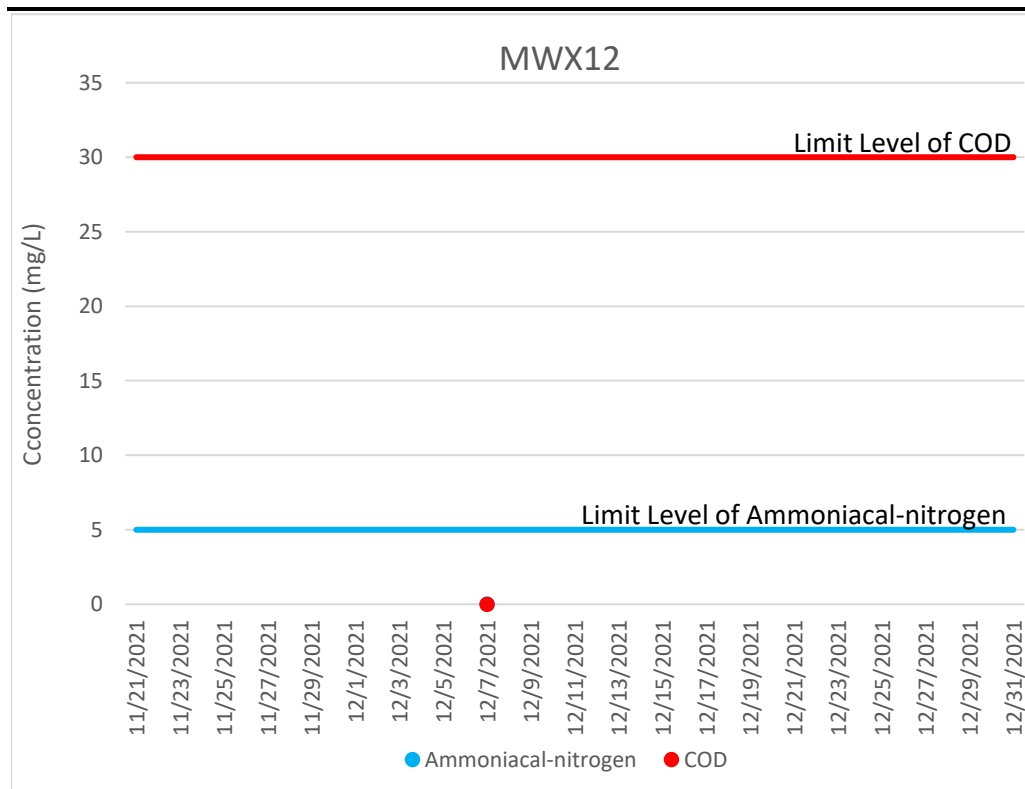


Figure F5.13 Graphical Presentation for Groundwater Monitoring (MWX-13)

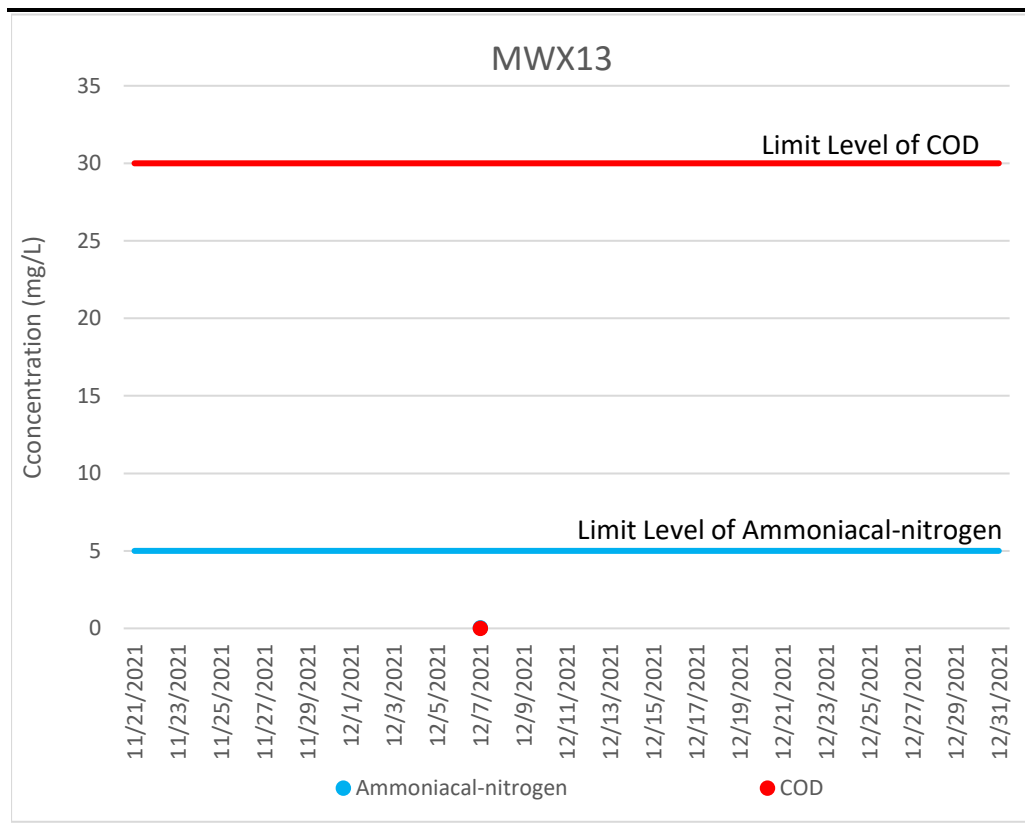


Figure F5.14 Graphical Presentation for Groundwater Monitoring (MWX-14)

