



3Q2022 MMT

AIR & WATER

SAMPLING

August 23-24, 2022



RTN

Parameters	Station No./ Station Identification			DENR Ambient Standard Ug/Nm ³	REMARKS
Station ID	PIER STOCKYARD A	RTN TOWNSITE OVAL	GSSI		
Time					
Weather Condition					
PM 10 Ug/Nm ³	12	15	18	200	Passed

IN-SITU
MEASUREMENTS
& RESULTS

Parameters	Station No./ Station Identification			Water Quality Criteria (DAO 2016-08) Class SC	REMARKS
	S4	S5	S6		
Station ID	LOWER KINURONG	LOWER TOGPON	CONFLUENCE OF L. KINURONG & L.TOGPON (Discharge		
Time	0727H	0707H	0754H		
Weather Condition	Cloudy	Cloudy	Cloudy		
Water Appearance	Clear	Clear	Clear		
pH	8.77	8.71	8.61	6.5-9.0	
DO, mg/L	11.91	11.76	11.60	Minimum 5 (samples should be taken from 9AM to 4PM)	
Temperature, °C	28.27	27.61	27.43	25-31	
TDS, g/L	0.333	0.417	0.417		
Cond, µs/cm	0.520	0.651	0.652		
Salinity, ppt	0.2	0.3	0.3		
Turbidity, NTU	-	-	-		
ORP, mV	269	289	300		
Total Suspended Solids (TSS)	5	6	7	100	Passed
Arsenic (As)	<0.0007	<0.0007	<0.0007	0.04	Passed
Cadmium (Cd)	<0.003	<0.003	<0.003	0.01	Passed
Lead (Pb)	<0.01	<0.01	<0.01	0.1	Passed
Manganese (Mn)	0.027	0.103	0.100	4	Passed
Nickel (Ni)	<0.02	0.07	0.07	0.3	Passed

IN-SITU
MEASUREMENTS
& RESULTS

Parameters	Station No/ Station Identification	Water Quality Criteria (DAO 2016-08) Class C	REMARKS
	S7		
Station ID	RTNMC EFFLUENT (500 m from confluence of S5 & S4)		
Time	0802H		
Weather Condition	Cloudy		
Water Appearance	Clear		
pH	8.64	6.5-9.0	
DO, mg/L	11.48	Minimum 5 (samples should be taken from 9AM to 4PM)	
Temperature, °C	27.76	3 (°C Change)	
TDS, g/L	0.382		
Conductivity, µs/cm	0.596		
Salinity, ppt	0.3		
Turbidity, NTU	-		
ORP, mV	282		
Total Suspended Solids (TSS)	4	100	Passed
Arsenic (As)	<0.0007	0.04	Passed
Cadmium (Cd)	<0.003	0.01	Passed
Lead (Pb)	<0.01	0.1	Passed
Manganese (Mn)	0.066	4	Passed
Nickel (Ni)	0.05	0.3	Passed
BOD			

IN-SITU
MEASUREMENTS
& RESULTS

Parameters	Station No./ Station Identification	Water Quality Guidelines (Class C)	REMARKS
	S1		
Station ID	UPPER TAGPISA		
Time	0825 H		
Weather Condition	Sunny		
Water Appearance	Clear		
pH	8.68	6.5-8.5	
DO, mg/L	9.89	Min. 5, (samples should be taken from 9:00 AM to 4:00 PM)	
Temperature, °C	24.99	25-31	
TDS, g/L	0.186		
Cond, µs/cm	0.286		
Salinity, ppt	0.1		
Turbidity, NTU	-		
ORP, mV	295		
Total Suspended Solids (TSS)	4	80	Within the WQG
Arsenic (As)	<0.0007	0.02	Within the WQG
Cadmium (Cd)	<0.003	0.005	Within the WQG
Lead (Pb)	<0.01	0.05	Within the WQG
Manganese (Mn)	0.028	0.2	Within the WQG
Nickel (Ni)	0.10	0.2	Within the WQG

**IN-SITU
MEASUREMENTS
& RESULTS**

Parameters	Station No./ Station Identification	Water Quality Guidelines (Class SC)	REMARKS
	S8		
Station ID	RIO TUBA TRIBUTARY		
Time	0700H		
Weather Condition	Cloudy		
Water Appearance	Clear		
pH	7.80	6.5-8.5	
DO, mg/L	5.30	Min. 5, (samples should be taken from 9:00 AM to 4:00 PM)	
Temperature, °C	30.16	25-31	
TDS, g/L	26.7		
Cond, µs/cm	43.7		
Salinity, ppt	28.2		
Turbidity, NTU	4.4		
ORP, mV	2.81		
Total Suspended Solids (TSS)	4	80	Within the WQG
Arsenic (As)	<0.0007	0.02	Within the WQG
Cadmium (Cd)	<0.003	0.005	Within the WQG
Lead (Pb)	<0.01	0.05	Within the WQG
Manganese (Mn)	0.019	0.4	Within the WQG
Nickel (Ni)	<0.02	0.06	Within the WQG

IN-SITU
MEASUREMENTS
& RESULTS

ARSENIC

Station No.	Location	ARSENIC mg/L	Effluent Standard DAO 2016-08 (Class SC)	Remarks
S4	LOWER KINURONG SILTATION POND DISCHARGE	<0.0007	0.04	Passed
S5	LOWER TOGPON SILTATION POND DISCHARGE	<0.0007	0.04	Passed
S6	CONFLUENCE OF TOGPON AND KINURONG SILTATION POND	<0.0007	0.04	Passed
S7	RTNMC EFFLUENT	<0.0007	0.04	Passed

LEAD

Station No.	Location	LEAD mg/L	Effluent Standard DAO 2016-08 (Class SC)	Remarks
S4	LOWER KINURONG SILTATION POND DISCHARGE	<0.01	0.1	Passed
S5	LOWER TOGPON SILTATION POND DISCHARGE	<0.01	0.1	Passed
S6	CONFLUENCE OF TOGPON AND KINURONG SILTATION POND	<0.01	0,1	Passed
S7	RTNMC EFFLUENT	<0.01	0,1	Passed

CADMIUM

Station No.	Location	CADMIUM mg/L	Effluent Standard DAO 2016-08 (Class SC)	Remarks
S4	LOWER KINURONG SILTATION POND DISCHARGE	<0.003	0.01	Passed
S5	LOWER TOGPON SILTATION POND DISCHARGE	<0.003	0.01	Passed
S6	CONFLUENCE OF TOGPON AND KINURONG SILTATION POND	<0.003	0.01	Passed
S7	RTNMC EFFLUENT	<0.003	0.01	Passed

MANGANESE

Station No.	Location	MANGANESE mg/L	Effluent Standard DAO 2016-08 (Class SC)	Remarks
S4	LOWER KINURONG SILTATION POND DISCHARGE	0.027	0.4	Passed
S5	LOWER TOGPON SILTATION POND DISCHARGE	0.103	0.4	Passed
S6	CONFLUENCE OF TOGPON AND KINURONG SILTATION POND	0.100	0.4	Passed
S7	RTNMC EFFLUENT	0.066	0.4	Passed

NICKEL

Station No.	Location	NICKEL mg/L	Effluent Standard DAO 2016-08 (Class SC)	Remarks
S4	LOWER KINURONG SILTATION POND DISCHARGE	<0.02	0.3	Passed
S5	LOWER TOGPON SILTATION POND DISCHARGE	0.07	0.3	Passed
S6	CONFLUENCE OF TOGPON AND KINURONG SILTATION POND	0.07	0.3	Passed
S7	RTNMC EFFLUENT	0.05	0.3	Passed

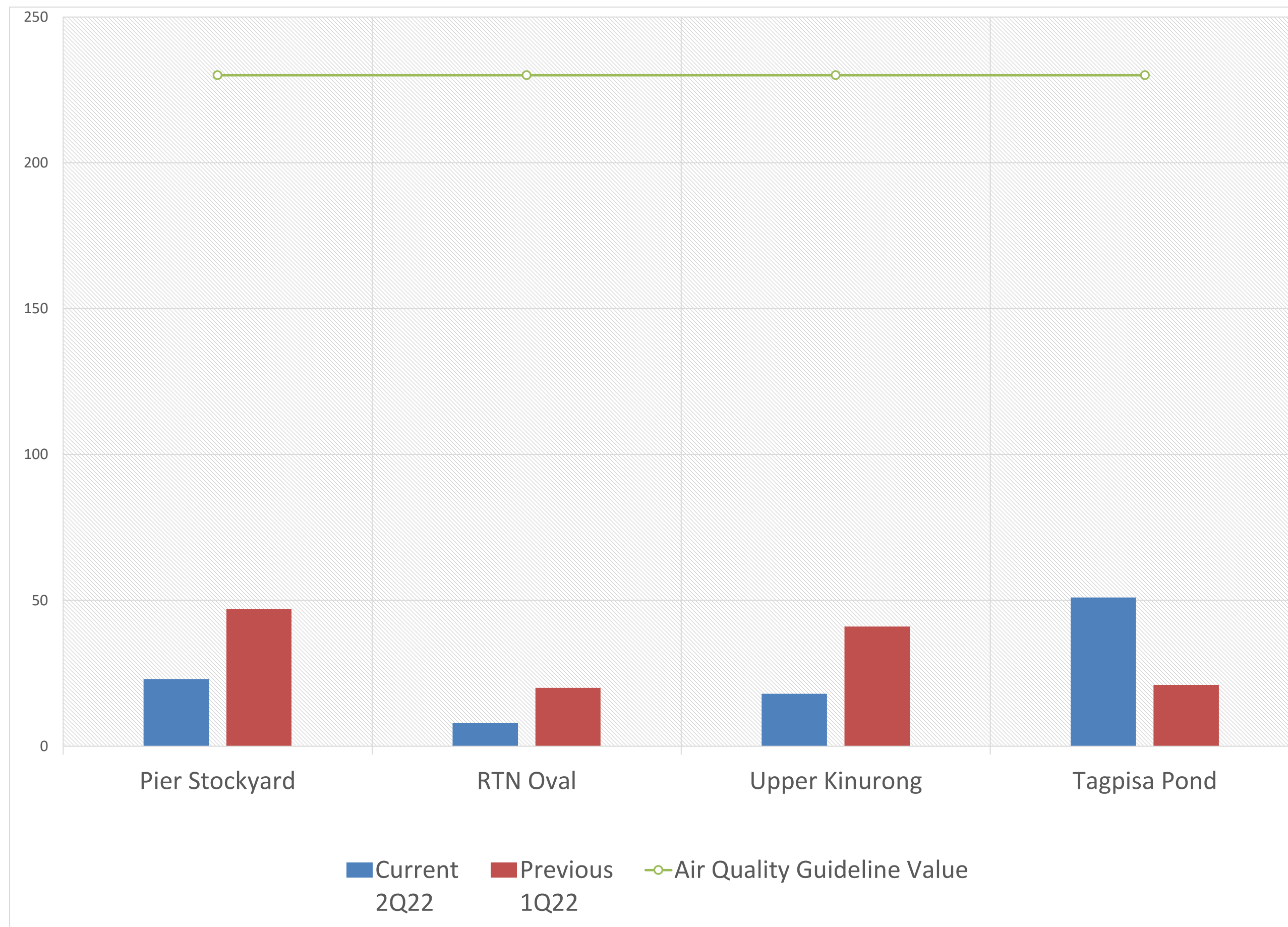
TOTAL SUSPENDED SOLIDS

Station No.	Location	Total Suspend Solids mg/L	Effluent Standard DAO 2016-08 (Class SC)	Remarks
S4	LOWER KINURONG SILTATION POND DISCHARGE	5	1001	Passed
S5	LOWER TOGPON SILTATION POND DISCHARGE	6	100	Passed
S6	CONFLUENCE OF TOGPON AND KINURONG SILTATION POND	7	100	Passed
S7	RTNMC EFFLUENT	4	100	Passed

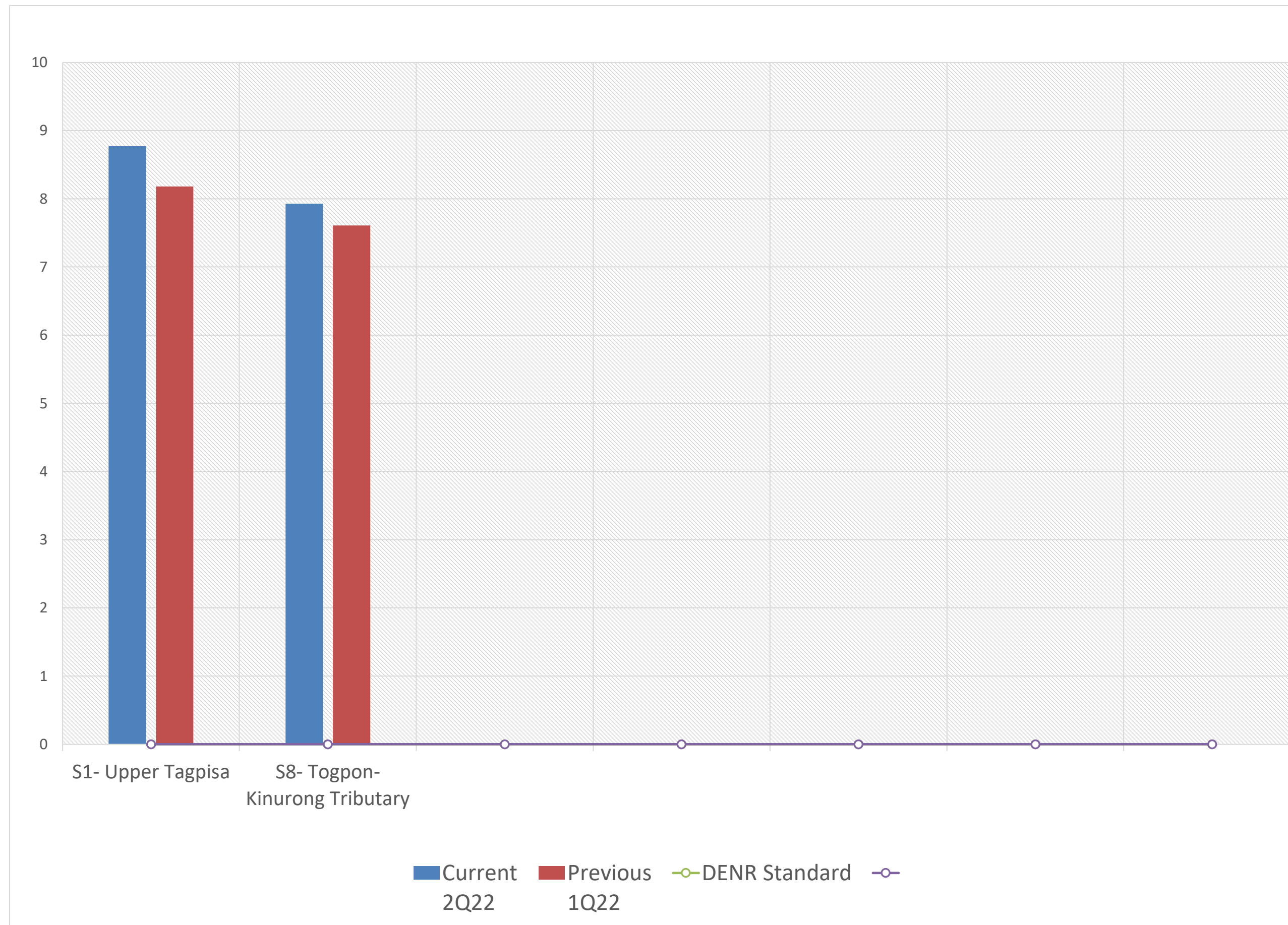
CHROMIUM AS HEXAVALENT CHROMIUM

Station No.	Location	Chromium Hexavalent Chromium mg/L	Effluent Standard DAO 2016-08 (Class SC)	Remarks
S4	LOWER KINURONG SILTATION POND DISCHARGE	0.06	0.1	Passed
S5	LOWER TOGPON SILTATION POND DISCHARGE	0.04	0.1	Passed
S6	CONFLUENCE OF TOGPON AND KINURONG SILTATION POND	0.04	0.1	Passed
S7	RTNMC EFFLUENT	0.04	0.1	Passed

PARAMETER: TSP

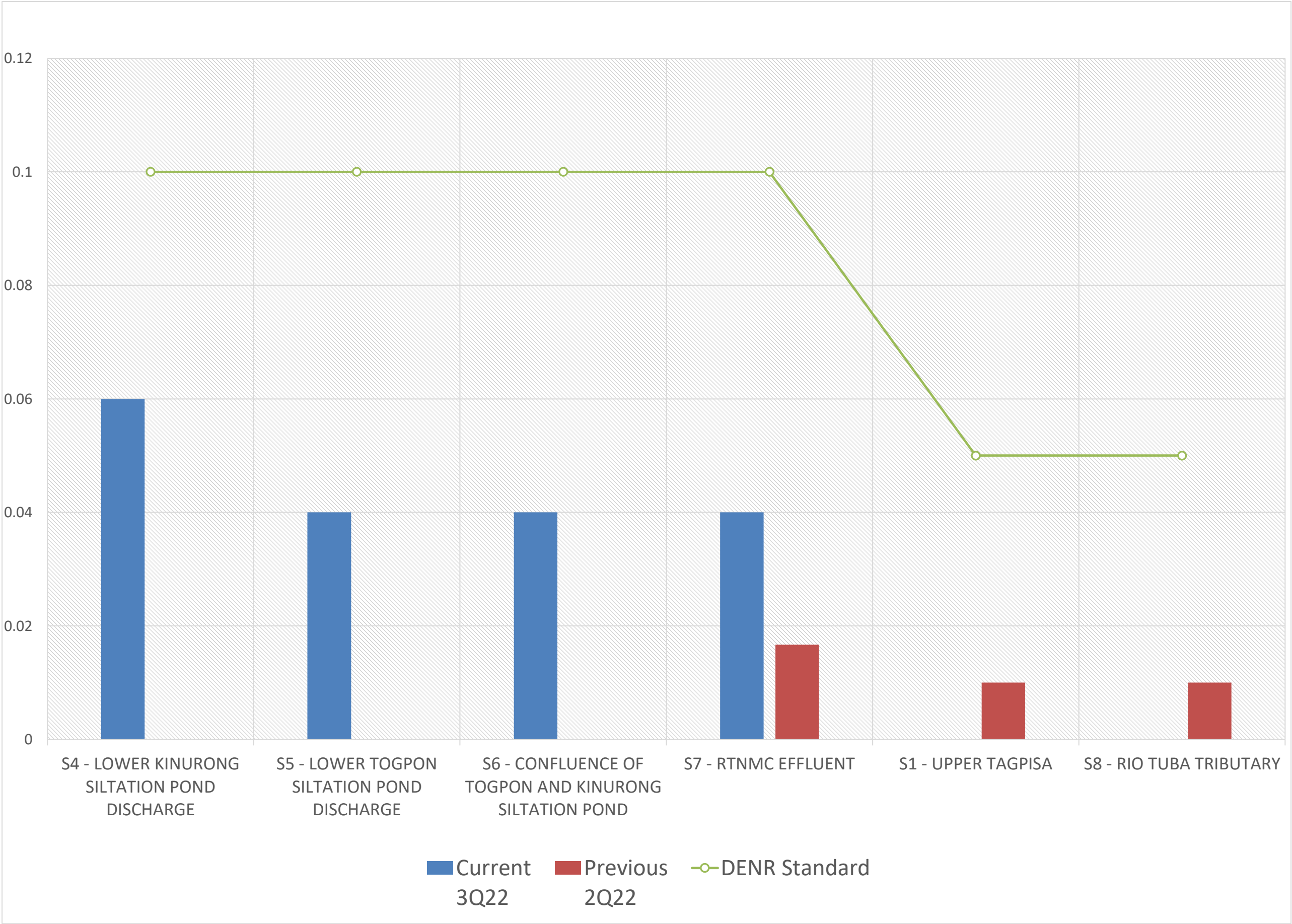


PARAMETER: PH



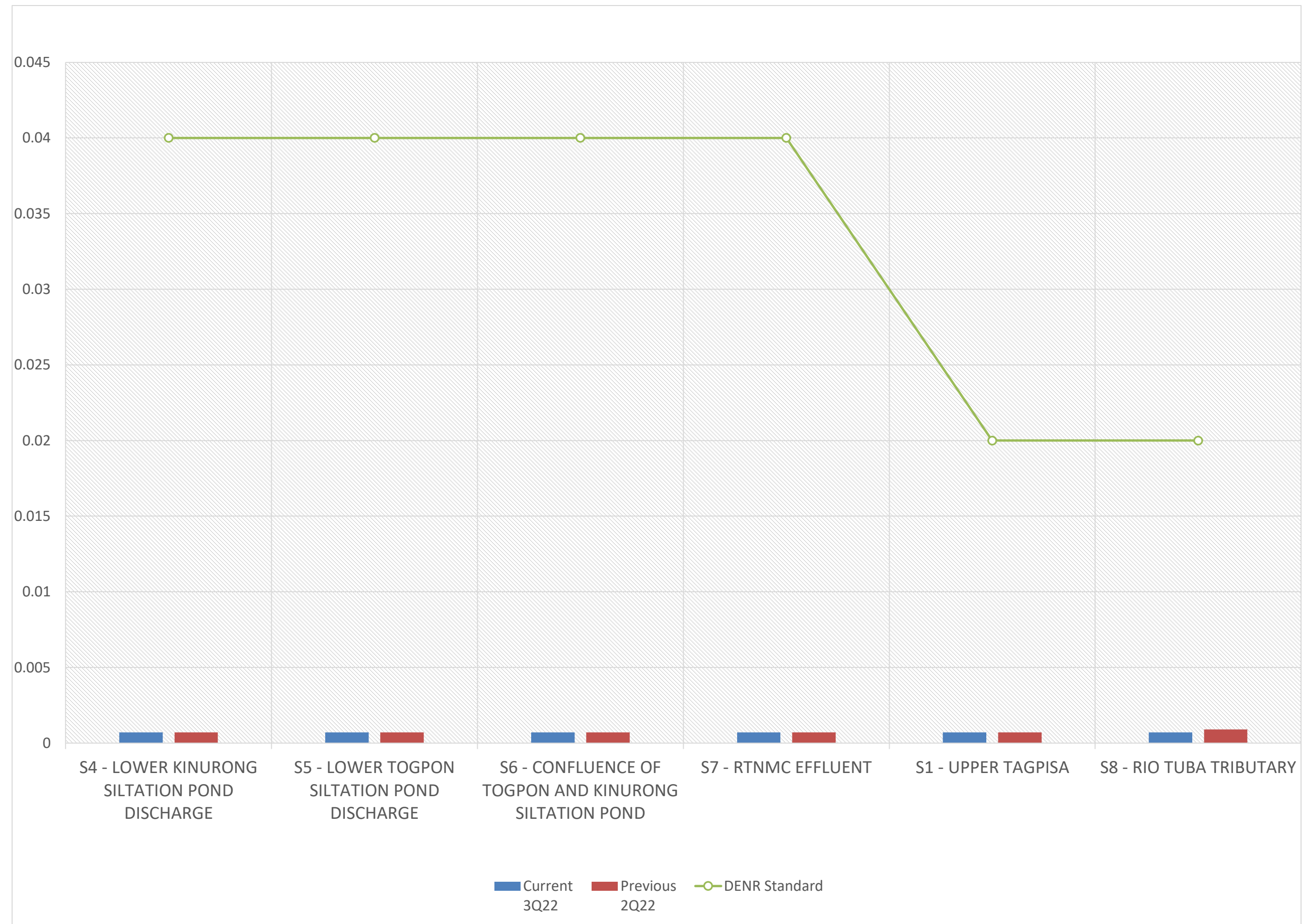
PARAMETER:

**Chromium
Hexavalent
Chromium**



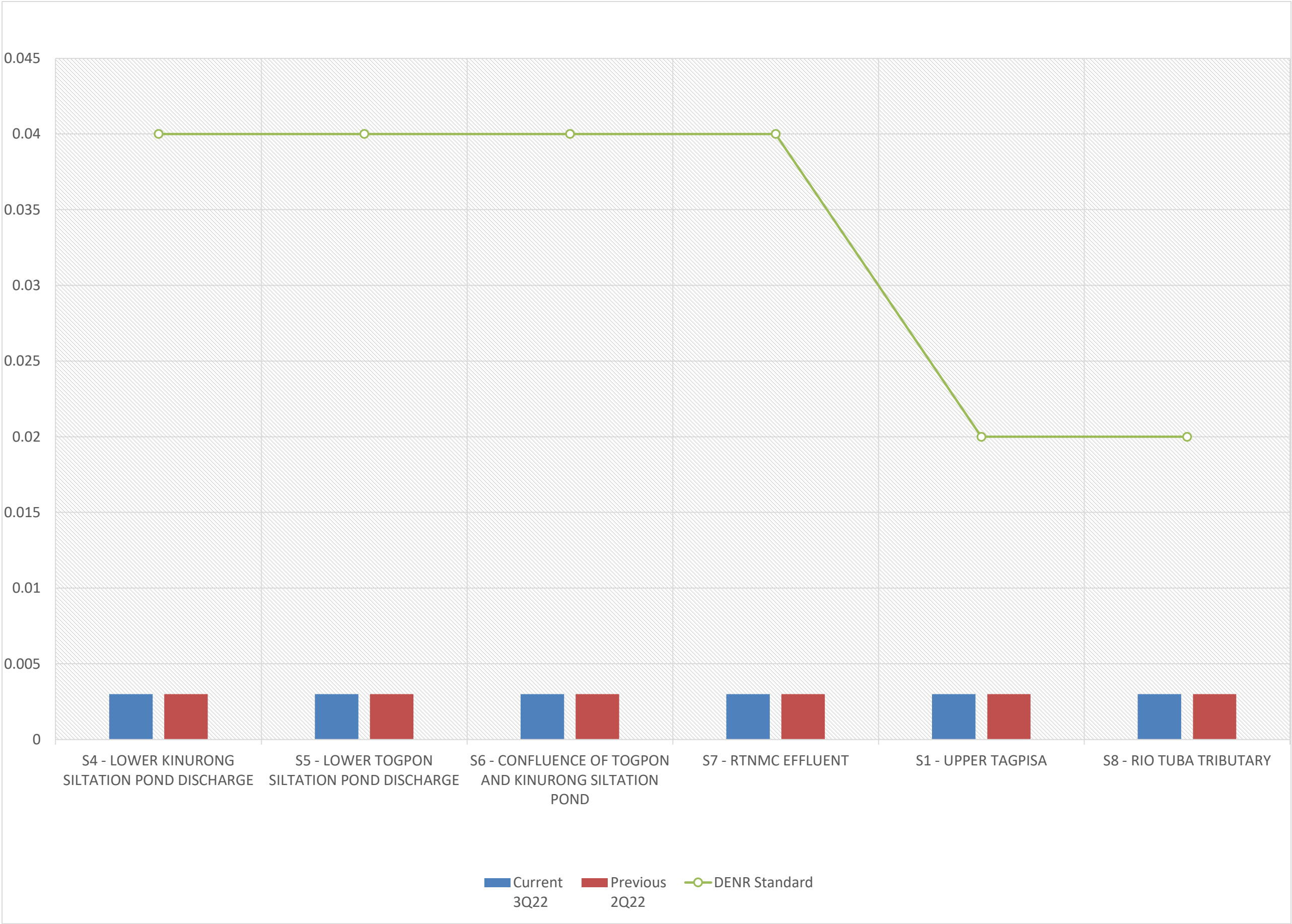
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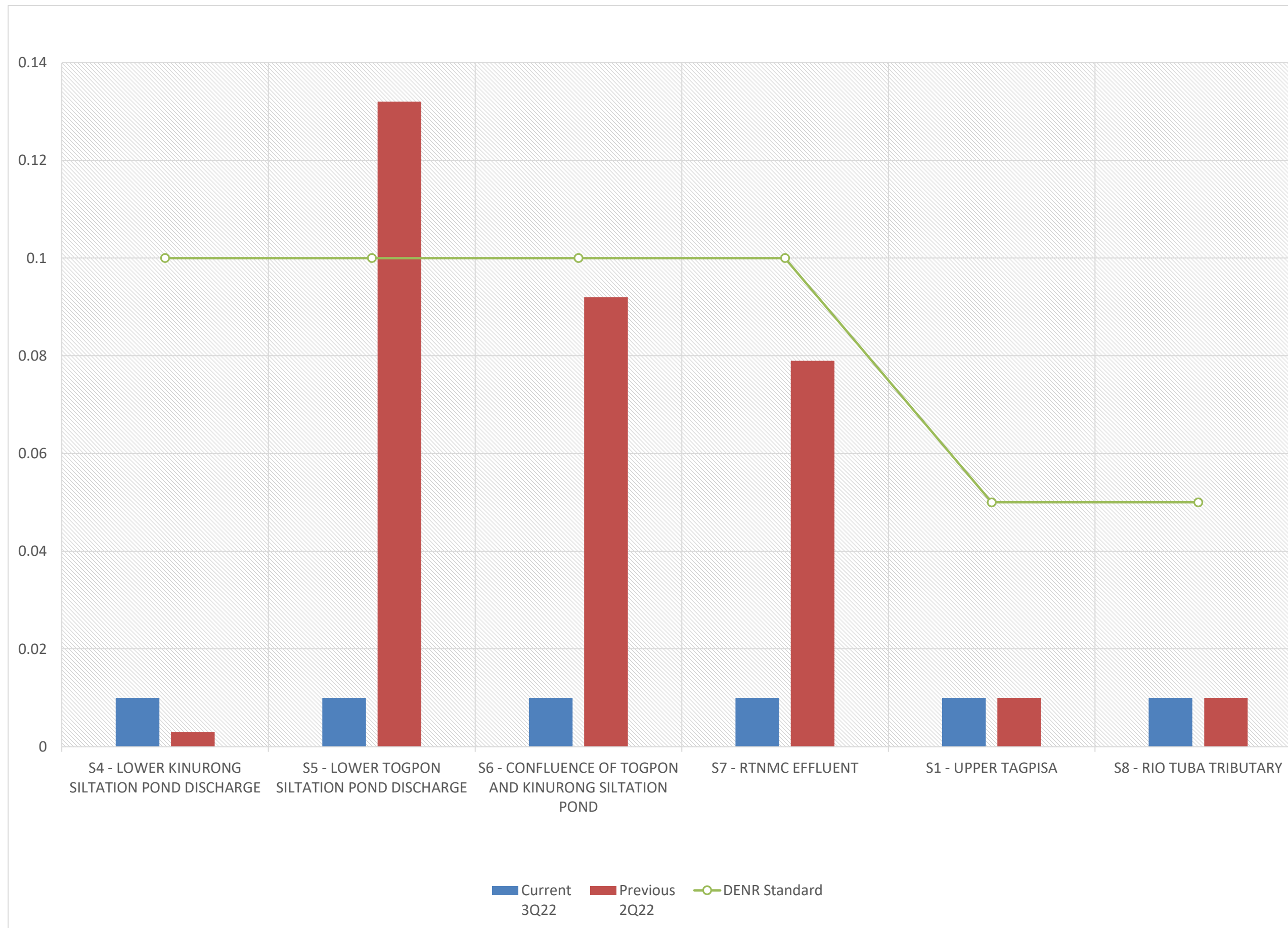
Arsenic



PARAMETER:

Cadmium





PARAMETER:

Lead



THANK YOU

3Q2022

Result of Analysis

Air and Water Sampling