Project: Amalgamated Water 2024-2025	Monitoring requirements:	Quarterly during discharge	ALS Sample ID	ME2401011-003	ME2401471-003	ME2402022-003	ME2500337-003				
RESULTS OF ANALYSIS - ALS Global Environmental Division Mudgee			Date	01-Jun-24	01-Sep-24	23-Dec-24	6-Mar-25	Lowest Sample	Highest Sample	Mean	100 percentile concentration limit
Parameter	Method	Unit	LOR - Limit of Reporting								
EA005: pH											
pH Value	EA005	pH Unit	0.01	8.4	8.4	8.4	8.4	8.4	8.4	8.4	6.5-8.5
EA010: Conductivity											
Electrical Conductivity @ 25°C	EA010	µS/cm	1	868	855	838	847	838	868	851.9	
EA025: Total Suspended Solids dried at 104 ± 2°C											
Suspended Solids (SS)	EA025	mg/L	1	1	8	< 1	2	<1	8	2.9	50
EA065: Total Hardness as CaCO3											
Total Hardness as CaCO3	ED093F	mg/L	1	325	312	310	344	310	344	322.8	
ED037P: Alkalinity by PC Titrator											
Bicarbonate Alkalinity as CaCO3	ED037-P	mg/L	1	191	186	184	194	184	194	188.8	
Carbonate Alkalinity as CaCO3	ED037-P	mg/L	1	<1	<1	7	4	<1	7	3.2	
Hydroxide Alkalinity as CaCO3	ED037-P	mg/L	1	<1	<1	< 1	<1	<1	<1	<1	
Total Alkalinity as CaCO3	ED037-P	mg/L	1	191	186	191	198	186	198	191.5	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA											
Sulfate as SO4 - Turbidimetric	ED041G	mg/L	1	146	124	111	127	111	146	127	
ED045G: Chloride by Discrete Analyser											
Chloride	ED045G	mg/L	1	104	103	81	107	81	107	98.8	
ED093F: Dissolved Major Cations											
Calcium	ED093F	mg/L	1	66	64	65	67	64	67	65.5	
Magnesium	ED093F	mg/L	1	39	37	36	43	36	43	38.8	
Potassium	ED093F	mg/L	1	3	4	3	3	3	4	3.3	
Sodium	ED093F	mg/L	1	61	67	51	59	51	67	59.5	
EG020T: Total Metals by ICP-MS											
Arsenic	EG020A-T	mg/L	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
Cadmium	EG020A-T	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	EG020A-T	mg/L	0.001	0.02	<0.001	<0.001	<0.001	<0.001	0.02	0.006	
Copper	EG020A-T	mg/L	0.001	0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001	
Iron	EG020A-T	mg/L	0.05	0.15	<0.05	<0.05	<0.05	<0.05	0.15	0.04	
Lead	EG020A-T	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

Nickel	EG020A-T	mg/L	0.001	0.003	<0.001	0.002	0.002	<0.001	0.003	0.002	
Zinc	EG020A-T	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EN055: Ionic Balance											
Ionic Balance	EN055 - PG	%	0.01	2.92	0.28	0.53	0.49	0.28	2.92	1.1	
Total Anions	EN055 - PG	meq/L	0.01	9.79	9.2	8.41	9.62	8.41	9.79	9.3	
Total Cations	EN055 - PG	meq/L	0.01	9.23	9.26	8.5	9.52	8.5	9.52	9.1	
EP020: Oil and Grease (O&G)											
Oil & Grease	EP020	mg/L	5	<5	<5	<5	<5	<5	<5	<5	10