



CERTIFICATE OF ANALYSIS

Work Order : ES2326343
Client : DEPARTMENT OF PLANNING AND ENVIRONMENT (NSW-DPE)
Contact : OEH
Address : [REDACTED]
Telephone : ----
Project : 20230320
Order number : 4500931788
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : EN/222
No. of samples received : 88
No. of samples analysed : 88

Page : 1 of 24
Laboratory : Environmental Division Sydney
Contact : [REDACTED]
Address : [REDACTED]
Telephone : [REDACTED]
Date Samples Received : 07-Aug-2023 16:43
Date Analysis Commenced : 07-Aug-2023
Issue Date : 11-Aug-2023 18:15



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
[REDACTED]	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
∅ = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EK271A-CM: Samples for Ultra-Trace Reactive Phosphorus by FIA should be frozen upon sampling. If not, low-level results (below 0.01 mg/L) may bias low.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237168	237171	237172	237175	237176
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-001	ES2326343-002	ES2326343-003	ES2326343-004	ES2326343-005	
				Result	Result	Result	Result	Result	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	6	----	28	----	27	
EA036: Fixed/Volatile Suspended Solids									
Fixed Suspended Solids @ 550°C	----	5	mg/L	<5	----	17	----	17	
Volatile Suspended Solids @ 550°C	----	5	mg/L	6	----	11	----	10	
Fixed Suspended Solids @ 550 C (Fraction of Suspended S)	----	0.1	%	<0.1	----	61	----	64	
Volatile Suspended Solids @ 550 C (Fraction of Suspended S)	----	0.1	%	100	----	39	----	36	
ED040F: Dissolved Major Anions									
Sulfur as S	63705-05-5	1	mg/L	----	7	----	6	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	----	45	----	42	----	
Magnesium	7439-95-4	1	mg/L	----	26	----	23	----	
Sodium	7440-23-5	1	mg/L	----	88	----	75	----	
Potassium	7440-09-7	1	mg/L	----	9	----	10	----	
EG020F: Dissolved Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L	----	0.18	----	0.82	----	
Antimony	7440-36-0	0.001	mg/L	----	<0.001	----	<0.001	----	
Arsenic	7440-38-2	0.001	mg/L	----	0.001	----	0.002	----	
Beryllium	7440-41-7	0.001	mg/L	----	<0.001	----	<0.001	----	
Barium	7440-39-3	0.001	mg/L	----	0.124	----	0.120	----	
Cadmium	7440-43-9	0.0001	mg/L	----	<0.0001	----	<0.0001	----	
Chromium	7440-47-3	0.001	mg/L	----	<0.001	----	<0.001	----	
Cobalt	7440-48-4	0.001	mg/L	----	<0.001	----	<0.001	----	
Copper	7440-50-8	0.001	mg/L	----	0.002	----	0.002	----	
Lead	7439-92-1	0.001	mg/L	----	<0.001	----	<0.001	----	
Lithium	7439-93-2	0.001	mg/L	----	0.002	----	0.002	----	
Manganese	7439-96-5	0.001	mg/L	----	<0.001	----	0.028	----	
Molybdenum	7439-98-7	0.001	mg/L	----	0.003	----	0.002	----	
Nickel	7440-02-0	0.001	mg/L	----	0.003	----	0.003	----	
Selenium	7782-49-2	0.01	mg/L	----	<0.01	----	<0.01	----	
Silver	7440-22-4	0.001	mg/L	----	<0.001	----	<0.001	----	
Strontium	7440-24-6	0.001	mg/L	----	0.500	----	0.458	----	
Thallium	7440-28-0	0.001	mg/L	----	<0.001	----	<0.001	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237168	237171	237172	237175	237176
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-001	ES2326343-002	ES2326343-003	ES2326343-004	ES2326343-005	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS - Continued									
Tin	7440-31-5	0.001	mg/L	----	<0.001	----	<0.001	----	
Titanium	7440-32-6	0.01	mg/L	----	0.01	----	0.05	----	
Vanadium	7440-62-2	0.01	mg/L	----	<0.01	----	<0.01	----	
Zinc	7440-66-6	0.005	mg/L	----	<0.005	----	<0.005	----	
Boron	7440-42-8	0.05	mg/L	----	<0.05	----	<0.05	----	
Iron	7439-89-6	0.05	mg/L	----	0.11	----	0.50	----	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	----	<0.0001	----	<0.0001	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237179	237180	237183	237184	237187
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-006	ES2326343-007	ES2326343-008	ES2326343-009	ES2326343-010	
				Result	Result	Result	Result	Result	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	----	26	----	18	----	
EA036: Fixed/Volatile Suspended Solids									
Fixed Suspended Solids @ 550°C	----	5	mg/L	----	15	----	<5	----	
Volatile Suspended Solids @ 550°C	----	5	mg/L	----	11	----	18	----	
Fixed Suspended Solids @ 550 C (Fraction of Suspended S)	----	0.1	%	----	56	----	<0.1	----	
Volatile Suspended Solids @ 550 C (Fraction of Suspended S)	----	0.1	%	----	44	----	100	----	
ED040F: Dissolved Major Anions									
Sulfur as S	63705-05-5	1	mg/L	2	----	6	----	5	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	29	----	45	----	38	
Magnesium	7439-95-4	1	mg/L	13	----	24	----	20	
Sodium	7440-23-5	1	mg/L	40	----	81	----	64	
Potassium	7440-09-7	1	mg/L	11	----	11	----	10	
EG020F: Dissolved Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L	4.01	----	0.57	----	0.56	
Antimony	7440-36-0	0.001	mg/L	<0.001	----	<0.001	----	<0.001	
Arsenic	7440-38-2	0.001	mg/L	0.006	----	0.002	----	0.002	
Beryllium	7440-41-7	0.001	mg/L	<0.001	----	<0.001	----	<0.001	
Barium	7440-39-3	0.001	mg/L	0.090	----	0.126	----	0.107	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	<0.0001	----	<0.0001	
Chromium	7440-47-3	0.001	mg/L	0.003	----	<0.001	----	<0.001	
Cobalt	7440-48-4	0.001	mg/L	<0.001	----	<0.001	----	<0.001	
Copper	7440-50-8	0.001	mg/L	0.004	----	0.002	----	0.002	
Lead	7439-92-1	0.001	mg/L	<0.001	----	<0.001	----	<0.001	
Lithium	7439-93-2	0.001	mg/L	0.002	----	0.002	----	0.001	
Manganese	7439-96-5	0.001	mg/L	<0.001	----	0.011	----	0.020	
Molybdenum	7439-98-7	0.001	mg/L	0.002	----	0.002	----	0.002	
Nickel	7440-02-0	0.001	mg/L	0.004	----	0.003	----	0.003	
Selenium	7782-49-2	0.01	mg/L	<0.01	----	<0.01	----	<0.01	
Silver	7440-22-4	0.001	mg/L	<0.001	----	<0.001	----	<0.001	
Strontium	7440-24-6	0.001	mg/L	0.298	----	0.488	----	0.406	
Thallium	7440-28-0	0.001	mg/L	<0.001	----	<0.001	----	<0.001	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237179	237180	237183	237184	237187
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-006	ES2326343-007	ES2326343-008	ES2326343-009	ES2326343-010	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS - Continued									
Tin	7440-31-5	0.001	mg/L	<0.001	----	<0.001	----	<0.001	
Titanium	7440-32-6	0.01	mg/L	0.18	----	0.03	----	0.04	
Vanadium	7440-62-2	0.01	mg/L	0.02	----	<0.01	----	<0.01	
Zinc	7440-66-6	0.005	mg/L	<0.005	----	<0.005	----	<0.005	
Boron	7440-42-8	0.05	mg/L	0.05	----	<0.05	----	<0.05	
Iron	7439-89-6	0.05	mg/L	2.23	----	0.34	----	0.35	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	<0.0001	----	<0.0001	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237188	237191	237192	237195	237196
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-011	ES2326343-012	ES2326343-013	ES2326343-014	ES2326343-015	
				Result	Result	Result	Result	Result	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	15	----	10	----	18	
EA036: Fixed/Volatile Suspended Solids									
Fixed Suspended Solids @ 550°C	----	5	mg/L	<5	----	<5	----	<5	
Volatile Suspended Solids @ 550°C	----	5	mg/L	15	----	10	----	18	
Fixed Suspended Solids @ 550 C (Fraction of Suspended S)	----	0.1	%	<0.1	----	<0.1	----	<0.1	
Volatile Suspended Solids @ 550 C (Fraction of Suspended S)	----	0.1	%	100	----	100	----	100	
ED040F: Dissolved Major Anions									
Sulfur as S	63705-05-5	1	mg/L	----	6	----	7	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	----	46	----	46	----	
Magnesium	7439-95-4	1	mg/L	----	25	----	25	----	
Sodium	7440-23-5	1	mg/L	----	83	----	85	----	
Potassium	7440-09-7	1	mg/L	----	10	----	10	----	
EG020F: Dissolved Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L	----	0.24	----	0.18	----	
Antimony	7440-36-0	0.001	mg/L	----	<0.001	----	<0.001	----	
Arsenic	7440-38-2	0.001	mg/L	----	0.002	----	0.002	----	
Beryllium	7440-41-7	0.001	mg/L	----	<0.001	----	<0.001	----	
Barium	7440-39-3	0.001	mg/L	----	0.132	----	0.130	----	
Cadmium	7440-43-9	0.0001	mg/L	----	<0.0001	----	<0.0001	----	
Chromium	7440-47-3	0.001	mg/L	----	<0.001	----	<0.001	----	
Cobalt	7440-48-4	0.001	mg/L	----	<0.001	----	<0.001	----	
Copper	7440-50-8	0.001	mg/L	----	0.001	----	0.001	----	
Lead	7439-92-1	0.001	mg/L	----	<0.001	----	<0.001	----	
Lithium	7439-93-2	0.001	mg/L	----	0.002	----	0.001	----	
Manganese	7439-96-5	0.001	mg/L	----	<0.001	----	0.019	----	
Molybdenum	7439-98-7	0.001	mg/L	----	0.002	----	0.002	----	
Nickel	7440-02-0	0.001	mg/L	----	0.003	----	0.002	----	
Selenium	7782-49-2	0.01	mg/L	----	<0.01	----	<0.01	----	
Silver	7440-22-4	0.001	mg/L	----	<0.001	----	<0.001	----	
Strontium	7440-24-6	0.001	mg/L	----	0.502	----	0.496	----	
Thallium	7440-28-0	0.001	mg/L	----	<0.001	----	<0.001	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237188	237191	237192	237195	237196
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-011	ES2326343-012	ES2326343-013	ES2326343-014	ES2326343-015	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS - Continued									
Tin	7440-31-5	0.001	mg/L	----	<0.001	----	<0.001	----	
Titanium	7440-32-6	0.01	mg/L	----	0.01	----	0.01	----	
Vanadium	7440-62-2	0.01	mg/L	----	<0.01	----	<0.01	----	
Zinc	7440-66-6	0.005	mg/L	----	<0.005	----	<0.005	----	
Boron	7440-42-8	0.05	mg/L	----	0.05	----	<0.05	----	
Iron	7439-89-6	0.05	mg/L	----	0.14	----	0.10	----	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	----	<0.0001	----	<0.0001	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237199	237200	237201	237202	237203
Sampling date / time					01-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	ES2326343-016	ES2326343-017	ES2326343-018	ES2326343-019	ES2326343-020	
				Result	Result	Result	Result	Result	
ED040F: Dissolved Major Anions									
Sulfur as S	63705-05-5	1	mg/L	6	----	----	----	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	42	----	----	----	----	
Magnesium	7439-95-4	1	mg/L	22	----	----	----	----	
Sodium	7440-23-5	1	mg/L	73	----	----	----	----	
Potassium	7440-09-7	1	mg/L	10	----	----	----	----	
EG020F: Dissolved Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L	0.90	----	----	----	----	
Antimony	7440-36-0	0.001	mg/L	<0.001	----	----	----	----	
Arsenic	7440-38-2	0.001	mg/L	0.002	----	----	----	----	
Beryllium	7440-41-7	0.001	mg/L	<0.001	----	----	----	----	
Barium	7440-39-3	0.001	mg/L	0.120	----	----	----	----	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----	
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----	
Cobalt	7440-48-4	0.001	mg/L	<0.001	----	----	----	----	
Copper	7440-50-8	0.001	mg/L	0.002	----	----	----	----	
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----	
Lithium	7439-93-2	0.001	mg/L	0.002	----	----	----	----	
Manganese	7439-96-5	0.001	mg/L	0.017	----	----	----	----	
Molybdenum	7439-98-7	0.001	mg/L	0.002	----	----	----	----	
Nickel	7440-02-0	0.001	mg/L	0.002	----	----	----	----	
Selenium	7782-49-2	0.01	mg/L	<0.01	----	----	----	----	
Silver	7440-22-4	0.001	mg/L	<0.001	----	----	----	----	
Strontium	7440-24-6	0.001	mg/L	0.448	----	----	----	----	
Thallium	7440-28-0	0.001	mg/L	<0.001	----	----	----	----	
Tin	7440-31-5	0.001	mg/L	<0.001	----	----	----	----	
Titanium	7440-32-6	0.01	mg/L	0.04	----	----	----	----	
Vanadium	7440-62-2	0.01	mg/L	<0.01	----	----	----	----	
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----	
Boron	7440-42-8	0.05	mg/L	<0.05	----	----	----	----	
Iron	7439-89-6	0.05	mg/L	0.52	----	----	----	----	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----	
EK255A: Ammonia									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237199	237200	237201	237202	237203
Sampling date / time					01-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00
Compound	CAS Number	LOR	Unit		ES2326343-016	ES2326343-017	ES2326343-018	ES2326343-019	ES2326343-020
					Result	Result	Result	Result	Result
EK255A: Ammonia - Continued									
Ammonia as N	7664-41-7	0.005	mg/L		----	<0.005	0.014	<0.005	0.008
EK259A: Nitrite and Nitrate (NOx)									
Nitrite + Nitrate as N		0.002	mg/L		----	0.002	0.016	0.003	<0.002
EK271A: Reactive Phosphorus									
Reactive Phosphorus as P	14265-44-2	0.001	mg/L		----	0.080	0.066	0.007	0.194



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237204	237205	237206	237207	237208
Sampling date / time				02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-021	ES2326343-022	ES2326343-023	ES2326343-024	ES2326343-025	
				Result	Result	Result	Result	Result	
EK255A: Ammonia									
Ammonia as N	7664-41-7	0.005	mg/L	<0.005	0.022	<0.005	<0.005	0.006	
EK259A: Nitrite and Nitrate (NOx)									
Nitrite + Nitrate as N	----	0.002	mg/L	<0.002	<0.002	<0.002	0.002	0.003	
EK271A: Reactive Phosphorus									
Reactive Phosphorus as P	14265-44-2	0.001	mg/L	0.080	0.042	0.038	0.040	0.053	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237209	237210	237211	237212	237213
Sampling date / time				02-Aug-2023 00:00	02-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-026	ES2326343-027	ES2326343-028	ES2326343-029	ES2326343-030	
				Result	Result	Result	Result	Result	
EK255A: Ammonia									
Ammonia as N	7664-41-7	0.005	mg/L	0.360	0.006	<0.005	0.059	0.104	
EK259A: Nitrite and Nitrate (NOx)									
Nitrite + Nitrate as N	----	0.002	mg/L	0.154	0.004	0.028	0.016	0.008	
EK271A: Reactive Phosphorus									
Reactive Phosphorus as P	14265-44-2	0.001	mg/L	0.382	0.158	0.013	0.036	0.217	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237214	237215	237216	237217	237218
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-031	ES2326343-032	ES2326343-033	ES2326343-034	ES2326343-035	
				Result	Result	Result	Result	Result	
EK255A: Ammonia									
Ammonia as N	7664-41-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EK259A: Nitrite and Nitrate (NOx)									
Nitrite + Nitrate as N	----	0.002	mg/L	<0.002	<0.002	<0.002	<0.002	0.002	
EK271A: Reactive Phosphorus									
Reactive Phosphorus as P	14265-44-2	0.001	mg/L	0.030	0.024	0.021	0.013	0.046	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237219	237220	237221	237222	237223
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-036	ES2326343-037	ES2326343-038	ES2326343-039	ES2326343-040	
				Result	Result	Result	Result	Result	
EK255A: Ammonia									
Ammonia as N	7664-41-7	0.005	mg/L	0.023	<0.005	0.013	<0.005	<0.005	
EK259A: Nitrite and Nitrate (NOx)									
Nitrite + Nitrate as N	----	0.002	mg/L	0.005	0.003	0.015	<0.002	0.002	
EK271A: Reactive Phosphorus									
Reactive Phosphorus as P	14265-44-2	0.001	mg/L	0.025	0.044	0.014	0.017	0.059	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237224	237225	237226	237227	237228
Sampling date / time				03-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-041	ES2326343-042	ES2326343-043	ES2326343-044	ES2326343-045	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	0.64	----	0.67	----	0.86	
Total Nitrogen as N	----	0.01	mg/L	----	1.04	----	1.23	----	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	0.104	----	0.119	----	0.035	
Total Phosphorus as P	----	0.005	mg/L	----	0.193	----	0.249	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237229	237230	237231	237232	237233
Sampling date / time				03-Aug-2023 00:00	03-Aug-2023 00:00	03-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-046	ES2326343-047	ES2326343-048	ES2326343-049	ES2326343-050	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	----	0.52	----	0.84	----	
Total Nitrogen as N	----	0.01	mg/L	1.43	----	0.65	----	1.98	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	----	0.258	----	0.101	----	
Total Phosphorus as P	----	0.005	mg/L	0.151	----	0.293	----	0.343	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237234	237235	237236	237237	237238
Sampling date / time				02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-051	ES2326343-052	ES2326343-053	ES2326343-054	ES2326343-055	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	0.76	----	0.99	----	0.77	
Total Nitrogen as N	----	0.01	mg/L	----	2.12	----	2.00	----	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	0.097	----	0.116	----	0.095	
Total Phosphorus as P	----	0.005	mg/L	----	0.356	----	0.351	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237239	237240	237241	237242	237243
Sampling date / time				02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00	02-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	ES2326343-056	ES2326343-057	ES2326343-058	ES2326343-059	ES2326343-060	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	----	0.79	----	1.97	----	
Total Nitrogen as N	----	0.01	mg/L	2.14	----	1.97	----	2.56	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	----	0.092	----	0.396	----	
Total Phosphorus as P	----	0.005	mg/L	0.331	----	0.318	----	0.620	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237244	237245	237246	237247	237248
Sampling date / time				02-Aug-2023 00:00	02-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-061	ES2326343-062	ES2326343-063	ES2326343-064	ES2326343-065	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	0.95	----	0.88	----	0.85	
Total Nitrogen as N	----	0.01	mg/L	----	1.54	----	1.03	----	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	0.173	----	0.029	----	0.052	
Total Phosphorus as P	----	0.005	mg/L	----	0.343	----	0.090	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237249	237250	237251	237252	237253
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	ES2326343-066	ES2326343-067	ES2326343-068	ES2326343-069	ES2326343-070	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	----	1.01	----	0.88	----	
Total Nitrogen as N	----	0.01	mg/L	1.20	----	1.06	----	1.13	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	----	0.269	----	0.043	----	
Total Phosphorus as P	----	0.005	mg/L	0.164	----	0.385	----	0.149	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237254	237255	237256	237257	237258
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	ES2326343-071	ES2326343-072	ES2326343-073	ES2326343-074	ES2326343-075	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	0.82	----	0.82	----	0.81	
Total Nitrogen as N	----	0.01	mg/L	----	1.08	----	1.05	----	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	0.042	----	0.035	----	0.029	
Total Phosphorus as P	----	0.005	mg/L	----	0.141	----	0.112	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237259	237260	237261	237262	237263
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-076	ES2326343-077	ES2326343-078	ES2326343-079	ES2326343-080	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	----	0.82	----	0.90	----	
Total Nitrogen as N	----	0.01	mg/L	0.99	----	0.98	----	0.62	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	----	0.081	----	0.057	----	
Total Phosphorus as P	----	0.005	mg/L	0.107	----	0.171	----	0.051	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237264	237265	237266	237267	237268
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2326343-081	ES2326343-082	ES2326343-083	ES2326343-084	ES2326343-085	
				Result	Result	Result	Result	Result	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	0.79	----	0.83	----	0.90	
Total Nitrogen as N	----	0.01	mg/L	----	0.95	----	1.19	----	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	0.050	----	0.031	----	0.030	
Total Phosphorus as P	----	0.005	mg/L	----	0.143	----	0.116	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	237269	237270	237271	----	----
Sampling date / time				01-Aug-2023 00:00	01-Aug-2023 00:00	01-Aug-2023 00:00	----	----	
Compound	CAS Number	LOR	Unit	ES2326343-086	ES2326343-087	ES2326343-088	-----	-----	
				Result	Result	Result	----	----	
EK262A: Total Nitrogen									
Dissolved Total Nitrogen as N	----	0.01	mg/L	----	0.79	----	----	----	
Total Nitrogen as N	----	0.01	mg/L	1.11	----	1.10	----	----	
EK267A: Total Phosphorus (Persulfate Digestion)									
Dissolved Total Phosphorus as P	----	0.005	mg/L	----	0.080	----	----	----	
Total Phosphorus as P	----	0.005	mg/L	0.129	----	0.203	----	----	