



## CERTIFICATE OF ANALYSIS

Work Order	: PR24D4029	Issue Date	: 08-Nov-2024
Customer Contact	: ALS Life Sciences Ltd : Rosemary Thomas	Laboratory Contact	: ALS Czech Republic, s.r.o. : Client Service
Address	: Carrigeen Business Park Clonmel Co. Tipperary Tipperary Ireland	Address	: Na Harfe 336/9 Prague 9 - Vysocany 190 00 Czech Republic
E-mail	: rose.thomas@ALSGlobal.com	E-mail	: customer.support@alsglobal.com
Telephone	: ----	Telephone	: +420 226 226 228
Project	: BLUER-822291024	Page	: 1 of 3
Order number	: ----	Date Samples Received	: 31-Oct-2024
Site	: ----	Quote number	: PR2012ALSLI-IE0002 (CZ-200-12-0931_V3)
Sampled by	: customer	Date of test	: 01-Nov-2024 - 08-Nov-2024
		QC Level	: ALS CR Standard Quality Control
			Schedule

### General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory. The laboratory is not responsible for the sample data supplied by the customer and their impact on the validity of the result.

The laboratory declares that the test results relate only to the listed samples. If "ALS" is not included in the test report in the "Sampled by" section, then the results refer to the sample as received.

All results highlighted in Bold indicate a reading above the Limit of Reporting (LOR) only for that test, and are not compared with any parametric value.

### Responsible for accuracy

Testing Laboratory No. 1163  
Accredited by CAI according to  
CSN EN ISO/IEC 17025:2018

#### Signatories

Lubomír Pokorný

#### Position

Country Manager



The company is certified according to ČSN EN ISO 14001 (Environmental management systems) and ČSN ISO 45001  
(Occupational health and safety management systems)



## Analytical Results

Sub-Matrix: WATER				Client sample ID		6412302 SW1 - Surface water Shannonside		6412303 SW2 - Surface water Shannonside		6412304 SW3 - Surface water Shannonside	
Parameter	Method	LOR	Unit	Laboratory sample ID		PR24D4029001		PR24D4029002		PR24D4029003	
				Client sampling date / time		29-Oct-2024		29-Oct-2024		29-Oct-2024	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU	Result	MU
<b>Physical Parameters</b>											
pH Value	W-PH-PCT	0.01	-	7.87	± 1.0%	7.64	± 1.0%	7.52	± 1.0%		
<b>Nonmetallic Inorganic Parameters</b>											
Ammonia (free)	W-NH3-CC3	0.010	mg/L	<0.010	---	<0.010	---	<0.010	---		
Ammonia and ammonium ions as N	W-NH4-SPC	0.040	mg/L	<0.040	---	0.307	± 15.0%	0.083	± 15.0%		
Ammonia and ammonium ions as NH4	W-NH4-SPC	0.050	mg/L	<0.050	---	0.395	± 15.0%	0.106	± 15.0%		
Chloride	W-CL-IC	1.00	mg/L	24.7	± 15.0%	31.8	± 15.0%	18.0	± 15.0%		
Ammonia (free) as N	W-NH3-CC3	0.010	mg/L	<0.010	---	<0.010	---	<0.010	---		
<b>Pesticides</b>											
Propiconazole	W-PESLMS02	0.050	µg/L	1.14	± 30.0%	2.55	± 30.0%	1.73	± 30.0%		
Tebuconazole	W-PESLMS02	0.050	µg/L	1.02	± 30.0%	2.30	± 30.0%	1.44	± 30.0%		

Sub-Matrix: WATER				Client sample ID		6412305 MW1- Surface water Shannonside		6412306 MW2- Surface water Shannonside		6412307 MW3- Surface water Shannonside	
Parameter	Method	LOR	Unit	Laboratory sample ID		PR24D4029004		PR24D4029005		PR24D4029006	
				Client sampling date / time		29-Oct-2024		29-Oct-2024		29-Oct-2024	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU	Result	MU
<b>Physical Parameters</b>											
pH Value	W-PH-PCT	0.01	-	7.46	± 1.0%	7.41	± 1.0%	7.62	± 1.0%		
<b>Nonmetallic Inorganic Parameters</b>											
Ammonia (free)	W-NH3-CC3	0.010	mg/L	0.014	---	<0.010	---	<0.010	---		
Ammonia and ammonium ions as N	W-NH4-SPC	0.040	mg/L	0.695	± 15.0%	<0.040	---	<0.040	---		
Ammonia and ammonium ions as NH4	W-NH4-SPC	0.050	mg/L	0.895	± 15.0%	<0.050	---	<0.050	---		
Chloride	W-CL-IC	1.00	mg/L	40.9	± 15.0%	55.9	± 15.0%	34.4	± 15.0%		
Ammonia (free) as N	W-NH3-CC3	0.010	mg/L	0.011	---	<0.010	---	<0.010	---		
<b>Pesticides</b>											
Propiconazole	W-PESLMS02	0.050	µg/L	7.50	± 30.0%	0.131	± 30.0%	1.97	± 30.0%		
Tebuconazole	W-PESLMS02	0.050	µg/L	7.74	± 30.0%	0.061	± 30.0%	2.08	± 30.0%		

Sub-Matrix: WATER				Client sample ID		6412308 Drain- Surface water Shannonside		6412309 Creek- Surface water Shannonside		---	
Parameter	Method	LOR	Unit	Laboratory sample ID		PR24D4029007		PR24D4029008		---	
				Client sampling date / time		29-Oct-2024		29-Oct-2024		29-Oct-2024	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU	Result	MU
<b>Physical Parameters</b>											
pH Value	W-PH-PCT	0.01	-	7.60	± 1.0%	6.93	± 1.0%	---	---	---	---
<b>Nonmetallic Inorganic Parameters</b>											
Ammonia (free)	W-NH3-CC3	0.010	mg/L	<0.010	---	<0.010	---	---	---	---	---
Ammonia and ammonium ions as N	W-NH4-SPC	0.040	mg/L	<0.040	---	0.188	± 15.0%	---	---	---	---
Ammonia and ammonium ions as NH4	W-NH4-SPC	0.050	mg/L	<0.050	---	0.242	± 15.0%	---	---	---	---
Chloride	W-CL-IC	1.00	mg/L	48.2	± 15.0%	2120	± 15.0%	---	---	---	---
Ammonia (free) as N	W-NH3-CC3	0.010	mg/L	<0.010	---	<0.010	---	---	---	---	---
<b>Pesticides</b>											
Propiconazole	W-PESLMS02	0.050	µg/L	1.81	± 30.0%	0.057	± 30.0%	---	---	---	---

Sub-Matrix: WATER				Client sample ID		6412308 Drain- Surface water Shannonside	6412309 Creek- Surface water Shannonside	----		
				Laboratory sample ID		PR24D4029007	PR24D4029008	----		
				Client sampling date / time		29-Oct-2024	29-Oct-2024	----		
Parameter		Method	LOR	Unit	Result	MU	Result	MU	Result	MU
<b>Pesticides - Continued</b>										
Tebuconazole		W-PESLMS02	0.050	µg/L	1.10	± 30.0%	<0.050	---	---	---

When sampling date is not provided by the client, the laboratory determines it for procedural reasons, then it is equal to the date of receipt of the sample to the laboratory and is displayed in brackets. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor  $k = 2$ , representing 95% confidence level.

Key: LOR = Limit of reporting; MU = Measurement Uncertainty. The MU does not include sampling uncertainty.

## Brief Method Summaries

Analytical Methods	Method Descriptions
<i>Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00</i>	
W-CL-IC	CZ_SOP_D06_02_068 (CSN EN ISO 10304-1) Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization.
W-NH3-CC2	CZ_SOP_D06_02_019 (CSN ISO 15923-1, SM 4500-NO2(-), SM 4500-NO3(-)) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization
W-NH3-CC3	CZ_SOP_D06_02_019 (CSN ISO 15923-1, SM 4500-NO2(-), SM 4500-NO3(-)) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization. Results of Ammonia (free) are calculated by value pH from laboratory and temperature 25 °C.
W-NH4-SPC	CZ_SOP_D06_02_019 (CSN ISO 15923-1, SM 4500-NO2-, SM 4500-NO3-) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization
W-PESLMS02	CZ_SOP_D06_03_183.A (US EPA Method 535, US EPA Method 1694) Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants sums from measured values.
W-PH-PCT	CZ_SOP_D06_02_105 (CSN ISO 10523, US EPA Method 150.1, SM 4500-H+ B) Determination of pH by potentiometry

The symbol "\*" for the method indicates a test outside the scope of accreditation of the laboratory or subcontractor. If the UNICO-SUB code is stated in the method table, this only informs that the tests have been performed by a subcontractor and the results are given in an annex to the test report, including information on test accreditation. If the lab used for matrix outside the scope of accreditation or non-standard sample matrix procedure specified in the accredited method and issues non-accredited results, this fact is stated on the title page of this protocol in the section "Notes". If the test report shows the results of subcontracting, the place of performance of the test is outside the laboratories of ALS Czech Republic, s.r.o.

The method for calculating of the summation parameters is available on request in the customer service.

***The end of the certificate of analysis***