

Client: Turbine Bringing Water Back to Life
 Tullyinchin
 Mountain Lodge
 Cootehill
 Co Cavan
 Cootehill
 Co Cavan
 IRELAND

Certificate Code: AR-23-BB-012172-01
Page Number: Page 1 of 3
PO reference:

Certificate of Analysis

Sample number	277-2023-00012253	Date received	04/08/2023
Sample Matrix	Waste Water Effluent	Your sample reference	KO1 04/08/2023
Sample Condition on Arrival	Satisfactory	Time Sampled	11:00
Sample Date	04/08/2023		

Analyte	Analysis Started	Method ⁵	SPEC ²	Result	Units	ACCRED ⁴
CBOD5 Dublin	04/08/23	D1003 ^D		13	mg/l O2	C6
COD	04/08/23	D1009 ^D		46	mg/l O2	C6
Nitrate as NO3 Waste	04/08/23	D3000 ^D		52.10	mg/l	C6
Nitrate as N Waste	04/08/23	D3000 ^D		11.80	mg/l	C6
Phosphorus (Waste)	11/08/23	D3000 ^D		<2	mg/l	
Total Suspended Solids (TSS) Influent Effluent	04/08/23	D1049 ^D		7	mg/l	
Oil, fat and grease (HEM)	04/08/23	*		<50	mg/l	JV

⁴ Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T
 JV: SFS-EN ISO/IEC 17025:2017 FINAS T039

SIGNATURE _____



21/08/2023

Niamh Ward - Senior Laboratory Analyst

NOTES

- This Report shall not be reproduced, except in full, without the permission of the Laboratory. Results only relate to the items tested as received. Uncertainty of measurement for test methods is available on request.
- SPEC = Allowable limit or parametric value.
- LOQ = Limit of Quantification or lowest value that can be reported.
- ACCRED = Indicates accreditation for the test, a blank field indicates not accredited.
- * indicates the test was sub-contracted, "D" indicates the analysis was performed in Dublin and "C" indicates the analysis performed in Cork.
- No date of sampling was supplied, sample stability cannot be assessed, results may be compromised.
- 7A. This result is compromised as it was tested outside of stability times.
- 7C. Sample not received in appropriate containers, therefore results may be compromised.
- 7D. This result is comprised as the sample was received by the laboratory outside of the holding time.
- This notification is based on the numerical result for the test without consideration of the uncertainty of measurement of the result, unless otherwise agreed in writing. Uncertainty of measurement has been calculated for all INAB accredited tests and is available upon request.
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Certificate Code: AR-23-BB-012172-01
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Sample number	277-2023-00012254	Date received	04/08/2023
Sample Matrix	Waste Water Effluent	Your sample reference	KO2 UPSTREAM 04/08/2023
Sample Condition on Arrival	Satisfactory	Time Sampled	11:00
Sample Date	04/08/2023		

Analyte	Analysis Started	Method ⁵	SPEC ²	Result	Units	ACCRED ⁴
CBOD5 Dublin	04/08/23	D1003 ^D		<2	mg/l O2	
COD	04/08/23	D1009 ^D		<8	mg/l O2	
Nitrate as NO3 Waste	04/08/23	D3000 ^D		<21.2	mg/l	C6
Nitrate as N Waste	04/08/23	D3000 ^D		<4.8	mg/l	C6
Phosphorus (Waste)	11/08/23	D3000 ^D		<2	mg/l	
Total Suspended Solids (TSS) Influent Effluent	04/08/23	D1049 ^D		<5	mg/l	

⁴ Accreditation Information

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Sample number	277-2023-00012255	Date received	04/08/2023
Sample Matrix	Waste Water Effluent	Your sample reference	KO3 DOWNSTREAM 04/08/2023
Sample Condition on Arrival	Satisfactory	Time Sampled	11:00
Sample Date	04/08/2023		

Analyte	Analysis Started	Method ⁵	SPEC ²	Result	Units	ACCRED ⁴
CBOD5 Dublin	04/08/23	D1003 ^D		6	mg/l O2	C6
COD	04/08/23	D1009 ^D		20	mg/l O2	C6
Nitrate as NO3 Waste	04/08/23	D3000 ^D		23.90	mg/l	C6
Nitrate as N Waste	08/08/23 ^{7A}	D3000 ^D		5.400	mg/l	
Phosphorus (Waste)	11/08/23	D3000 ^D		<2	mg/l	
Total Suspended Solids (TSS) Influent Effluent	04/08/23	D1049 ^D		7	mg/l	

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