

Annual Environmental Report

2023



Drumconrath

D0483-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2023 AER

This Annual Environmental Report has been prepared for D0483-01, Drumconrath, in Meath in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

There were no major capital or operational changes undertaken in 2023.

1.2 TREATMENT SUMMARY

The agglomeration is served by a wastewater treatment plant(s)

- Drumconrath WWTP with a Plant Capacity PE of 600, the treatment type is 2 - Secondary treatment.

1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF2300D0483SW001	Drumconrath WWTP	Treated	Non-Compliant	ortho-Phosphate (as P) - unspecified mg/l

1.4 LICENCE SPECIFIC REPORTING

Assessment / Report

Priority Substances Results 2023

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 DRUMCONRATH WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - DRUMCONRATH WWTP

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

Parameters	Number of Samples	Annual Max	Annual Mean
ortho-Phosphate (as P) - unspecified mg/l	6	5.89	3.25
BOD, 5 days with Inhibition (Carbonaceous) mg/l	6	514	300
COD-Cr mg/l	6	1086	724
Ammonia-Total (as N) mg/l	6	27	17
Suspended Solids mg/l	6	1621	524
Total Nitrogen mg/l	3	62	40
Total Phosphorus (as P) mg/l	3	12	7.47
Hydraulic Capacity	N/A	436	216

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

Significance of Results:

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is greater than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'.

2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF2300D0483SW001

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	100	200	N/A	6	N/A	N/A	35	Pass
Suspended Solids mg/l	30	75	N/A	6	N/A	N/A	7.72	Pass
BOD, 5 days with Inhibition (Carbonaceous) mg/l	20	40	N/A	6	N/A	N/A	8.89	Pass
pH pH units	6	9	N/A	6	N/A	N/A	7.61	Pass
Ammonia-Total (as N) mg/l	2	2.4	N/A	6	N/A	N/A	0.800	Pass
ortho-Phosphate (as P) - unspecified mg/l	1.5	1.8	N/A	6	3	2	1.26	Fail
Total Nitrogen mg/l	N/A	N/A	N/A	3	N/A	N/A	4.45	

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	3	N/A	N/A	1.67	

Notes:

1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

2 – For pH the WWDA specifies a range of pH 6 - 9

Cause of Exceedance(s):

WWTP not designed for P removal.

Significance of Results:

The WWTP is non compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section 2.

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF2300D0483SW001

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Ecological Status
Upstream	288470, 289938	RS06M050600	No	No	No	No	Moderate
Downstream	288667, 290541	RS06M050670	No	Yes	No	No	Moderate

The table below provides a summary of monitoring results for designated ambient monitoring points. The upstream and downstream annual mean values are shown (mg/l), and the difference between both monitoring stations is given as a percentage of the Environmental Quality Standard (EQS) where relevant.

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
BOD - 5 days (Total) mg/l	RS06M050600	1.94	RS06M050670	2.50	1.50	36.7
Ammonia-Total (as N) mg/l	RS06M050600	0.034	RS06M050670	0.140	0.065	163.8
ortho-Phosphate (as P) - unspecified mg/l	RS06M050600	0.041	RS06M050670	0.136	0.035	271.4
pH pH units	RS06M050600	7.92	RS06M050670	7.80	N/A	
Dissolved Oxygen mg/l	RS06M050600	11	RS06M050670	10	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
Total Nitrogen mg/l	RS06M050600	1.66	RS06M050670	2.14	N/A	
Dissolved Oxygen % Saturation	RS06M050600	94	RS06M050670	89	N/A	

Significance of Results:

The WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence for the following: ortho-Phosphate (as P) - unspecified mg/l.

The ambient monitoring results do not meet the required EQS at the upstream and the downstream monitoring locations. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

Based on ambient monitoring results a deterioration in Ammonia, BOD & Ortho-P concentrations downstream of the effluent discharge is noted.

A deterioration in water quality has been identified, however it is not known if it or is not caused by the WWTP.

As per the 3rd Cycle Draft Newry, Fane Glyde and Dee Catchment Report (HA 06), along with Urban Waste Water, Agriculture and Hydromorphology are significant pressures on the At Risk Dee_060 waterbody.

The discharge from the wastewater treatment plant does not have an observable negative impact on the Water Framework Directive status.

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - DRUMCONRATH WWTP

2.1.4.1 Treatment Efficiency Report - Drumconrath WWTP

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
SS	32305	250	99
COD	44666	1117	98
TP	540	63	88
TN	2887	168	94
cBOD	18536	288	98

Note: The above data is based on sample results for the number of dates reported

2.1.4.2 Treatment Capacity Report Summary - Drumconrath WWTP

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

Drumconrath WWTP	
Peak Hydraulic Capacity (m ³ /day) - As Constructed	405
DWF to the Treatment Plant (m ³ /day)	100
Current Hydraulic Loading - annual max (m ³ /day)	436

Drumconrath WWTP	
Average Hydraulic loading to the Treatment Plant (m ³ /day)	216
Organic Capacity (PE) - As Constructed	600
Organic Capacity (PE) - Collected Load (peak week) ^{Note1}	413
Organic Capacity (PE) - Remaining	187
Will the capacity be exceeded in the next three years? (Yes/No)	No

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

2.1.5 SLUDGE / OTHER INPUTS - DRUMCONRATH WWTP

'Other inputs' to the waste water treatment plant are summarised in the table below.

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
There is no Sludge and Other Input data for the Treatment Plant included in the AER.							

3 COMPLAINTS AND INCIDENTS

3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature related to the discharge(s) to water from the WWTP and network is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2023.			

3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Uisce Éireann but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

3.2.1 SUMMARY OF INCIDENTS

Incident Type	Cause	Recurring (Y/N)	Closed (Y/N)
Breach of ELV	WWTP not designed for P removal	Yes	No
Uncontrolled release	Blocked Sewer	No	Yes

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2023	2
Number of Incidents reported to the EPA via EDEN in 2023	2
Explanation of any discrepancies between the two numbers above	N/A

4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow (chamber) where applicable	Irish Grid Ref. (outfall)	Included in Schedule of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2023 (No. of events)	Total volume discharged in 2023 (m ³)	Monitoring Status
TBC	288480, 290160	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored

Any TBC SWO(s) were identified as part of the on-going National SWO programme and will be updated in subsequent AER(s) once the information is confirmed.

SWO Summary	
How much wastewater discharge by metered SWOs during the year (m ³)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	N/A
The SWO Assessment included the requirements of relevant of WWDL schedules?	Yes
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	No

4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS

4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides a list of the various reports required for this agglomeration and a brief summary of their recommendations.

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
There are no Specified Improvement Programmes for this Agglomeration.							

A summary of the status of any other improvements identified by under Condition 5 assessments- is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
No additional improvements planned at this time.				

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

N/A

5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides a list of the various reports required for this agglomeration and a brief summary of their recommendations.

Licence Specific Report	Required by licence	Included in this AER
Drinking Water Abstraction Point Risk Assessment	Yes	No
Priority Substances Assessment	Yes	Yes

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for Consideration of a Technical Amendment/Review of the Licence?	No
List reason e.g. additional SWO identified	N/A
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc	No
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	Yes

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Date: 28/02/2024

This AER has been produced by Uisce Éireann's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of,

Eleanor Roche

Head of Environmental Regulation.

7 APPENDIX

Appendix

Appendix 7.1 – Priority Substances Results 2023



Certificate of Analysis

Customer:	Uisce Éireann	Project:	Dangerous Substance-Drumconrath
Address:		Site:	Drumconrath
		Date Received:	11/08/2023
		Condition of Sample:	Satisfactory
Report to:	Kieran Cunningham	Date Analysed:	11/08/2023 - 16/10/2023
Customer PO		Issue Date:	16/10/2023
Quote No.		BATCH NUMBER:	23-31756

Conor Murphy

Conor Murphy
Operations Manager

Index to symbols used & Notes

*	Analysis is not INAB/UKAS accredited
**	Adapted from Standard Methods for the Examination of Water and Wastewater.
***	Customer specific limits
(F)	Analysis carried out at our Farranfore Laboratory.
(D)	Analysis carried out at our Dunrinc Laboratory.
LOQ	Parameter Limit of Quantification
Note 6	Subcontracted Parameter.

Notes

- ◆ The results relate only to the items tested.
- ◆ Opinions and interpretations expressed herein are outside the scope of INAB accreditation.
- ◆ The analysis report shall not be reproduced except in full without written approval of the laboratory.
- ◆ Sampling is outside the scope of the laboratory activities.

Notes for Drinking Water samples

Note A	The water should not be aggressive
Note B	Compliance must be ensured with the conditions that $[NO_3]/50 + [NO_2]/3 = 1$
Note C	Acceptable to customers and no abnormal change
Note D	In the case of surface water treatment, a parametric value not exceeding 1 NTU in the water ex treatment works must be strived for
Note F	Fluoridated supplies 0.8 mg/L; Natural supplies 1.5 mg/L.

(registered office)

4 park business centre | **farranfore** | county kerry | ireland | telephone +353 66 976 3588 | fax +353 66 976 3589
dunrinc | **killarney** | county kerry | ireland | telephone +353 64 66 33922 | fax +353 64 66 39022

web site www.southernscientificireland.com | e-mail info@southernscientificireland.com

directors: K. Murphy, M. Murphy & C. Murphy
registered in ireland no 323196 | vat reg no IE 6343196 M



Customer Sample Ref:	Drumconrath WWTP Dangerous Substance	Customer Sample Code:	23-0501
Project:	Dangerous Substance-Drumconrath	Sampled By:	Richard Mannion
Our Reference:	100473 (23-31756)	Sample Matrix:	Other Water
Date Sampled:	10/08/2023	Time Sampled:	:

Method:	Parameter:	Units	LOQ	Result
<u>Chemical Analysis: (F)</u>				
SCP 027B	Chloride	mg/L	0.5	30.2
- Note 6	Cyanide	µg/L	10	< 10
SCP 063	Fluoride	µg/L	100	220
SCP 038/073	* Barium (Ba)	µg/L	1	41
SCP 038/073	* Tin (Sn)	µg/L	10	< 10
- Note 6	Trichlorobenzene- sum of isomers	µg/L	0.50	< 0.50
- Note 6	Hexachlorocyclohexane- sum of isomers	µg/L	0.003	< 0.003
SCP 114A	Xylene- sum of isomers	µg/L	0.1	< 0.1
<u>Dangerous Substances Suite</u>				
<u>Chemical Analysis: (F)</u>				
SCP 052	Hydrogen Ion (pH)	pH units	4.0	7.5
SCP 052	Conductivity	µS/cm @ 20 °C	15	657
SCP 0271	Total Hardness	mg/L CaCO3	5	300
SCP 038/073	Antimony	µg/L	1	< 1
SCP 038/073	Arsenic	µg/L	1	< 1
SCP 038/073	Boron	µg/L	20	46
SCP 038/073	Cadmium	µg/L	0.45	< 0.45
SCP 038/073	Chromium	µg/L	1	< 1
SCP 038/073	Cobalt (Co)	µg/L	1	< 1
SCP 038/073	Copper	µg/L	1	9
SCP 038/073	Lead	µg/L	1	< 1
SCP 038/073	Mercury	µg/L	0.5	< 0.5
SCP 038/073	Molybdenum (Mo)	µg/L	5	< 5
SCP 038/073	Nickel	µg/L	1	1
SCP 038/073	Selenium	µg/L	5.00	< 5.00
SCP 073	Vanadium (V)	µg/L	1.0	< 1.0
SCP 038/73	Zinc (Zn)	µg/L	8	17
SCP 114A	Benzene	µg/L	0.1	< 0.1
- Note 6	Hexachlorobenzene	µg/L	0.050	< 0.050
SCP 114A	Carbon tetrachloride	µg/L	1	< 1
- Note 6	Dichloromethane	µg/L	0.5	< 0.5
SCP 114A	1,2-Dichloroethane	µg/L	0.2	< 0.2
SCP 114A	Chloroform	µg/L	2	< 2
SCP 114A	Ethylbenzene	µg/L	0.5	< 0.5
SCP 114A	Hexachlorobutadiene	µg/L	0.5	< 0.5
SCP 114A	Tetrachloroethene	µg/L	0.1	< 0.1
SCP 114A	Toluene	µg/L	0.5	< 0.5
SCP 114A	Trichloroethene	µg/L	0.1	< 0.1

(registered office)

4 park business centre | **farranfore** | county kerry | ireland | telephone +353 66 976 3588 | fax +353 66 976 3589
dunrinc | **killarney** | county kerry | ireland | telephone +353 64 66 33922 | fax +353 64 66 39022

web site www.southernscientificireland.com | e-mail info@southernscientificireland.com

directors: K. Murphy, M. Murphy & C. Murphy
registered in ireland no 323196 | vat reg no IE 6343196 M





Customer Sample Ref:	Drumconrath WWTP Dangerous Substance	Customer Sample Code:	23-0501
Project:	Dangerous Substance-Drumconrath	Sampled By:	Richard Mannion
Our Reference:	100473 (23-31756)	Sample Matrix:	Other Water
Date Sampled:	10/08/2023	Time Sampled:	:

Method:	Parameter:	Units	LOQ	Result
SCP 060B	Acenaphthene	µg/L	0.005	< 0.005
SCP 060B	Acenaphthylene	µg/L	0.005	< 0.005
SCP 060B	Anthracene	µg/L	0.005	< 0.005
SCP 060B	Benz(a)anthracene	µg/L	0.005	< 0.005
SCP 060B	Benzo(a)pyrene	µg/L	0.003	< 0.003
SCP 060B	Benzo(b)fluoranthene	µg/L	0.005	< 0.005
SCP 060B	Benzo(k)fluoranthene	µg/L	0.005	< 0.005
SCP 060B	Benzo(ghi)perylene	µg/L	0.005	< 0.005
SCP 060B	Chrysene	µg/L	0.005	< 0.005
SCP 060B	Dibenz(a,h)anthracene	µg/L	0.005	< 0.005
SCP 060B	Fluoranthene	µg/L	0.005	< 0.005
SCP 060B	Fluorene	µg/L	0.005	< 0.005
SCP 060B	Indeno(1,2,3-cd)pyrene	µg/L	0.005	< 0.005
SCP 060B	Naphthalene	µg/L	0.005	< 0.005
SCP 060B	Phenanthrene	µg/L	0.005	< 0.005
SCP 060B	Pyrene	µg/L	0.005	< 0.005
SCP 060B	Sum Benzo (b)&(k) fluoranthene	µg/L	0.005	< 0.005
SCP 060B	Total PAH's (sum of 16)	µg/L	0.078	< 0.078
SCP 060B	Dieldrin	ng/L	5	< 5
SCP 060B	Dichlobenil	ng/L	5	< 5
- Note 6	2,4-D	µg/L	0.10	< 0.10
- Note 6	MCPA	µg/L	0.10	< 0.10
- Note 6	MCPP (Mecoprop)	µg/L	0.10	< 0.10
- Note 6	Glyphosate	µg/L	0.1	0.7
- Note 6	Diuron	µg/L	0.03	0.06
- Note 6	Isoproturon	µg/L	0.10	< 0.10
- Note 6	Linuron	µg/L	0.10	< 0.10
- Note 6	Atrazine	µg/L	0.100	< 0.100
- Note 6	Simazine	µg/L	0.100	< 0.100
- Note 6	2, 6-dichlorobenzamide	µg/L	0.1	0.1
- Note 6	Isodrin	µg/L	0.050	< 0.050

(registered office)

4 park business centre | **farranfore** | county kerry | ireland | telephone +353 66 976 3588 | fax +353 66 976 3589
 dunrine | **killarney** | county kerry | ireland | telephone +353 64 66 33922 | fax +353 64 66 39022

web site www.southernscientificireland.com | e-mail info@southernscientificireland.com

directors: K. Murphy, M. Murphy & C. Murphy
 registered in ireland no 323196 | vat reg no IE 6343196 M



Certificate of Analysis

Customer:	Uisce Éireann	Site/Project:	Dangerous Substances- Drumconrath
Local Authority:	Meath County Council	Date Received:	20/12/2023
Customer Contact:	Kieran Cunningham	Condition of Sample(s):	Satisfactory
Customer PO		Date Analysed:	20/12/2023 - 31/01/2024
Quote No.		Issue Date:	06/02/2024
		BATCH NUMBER:	23-37006

Sadhbh O'Brien

Sadhbh O'Brien
Chemistry Team Lead

Index to symbols used:

*	Analysis is not INAB accredited
**	Adapted from Standard Methods for the Examination of Water and Wastewater.
***	S.I. No. 122 of 2014 and S.I No. 99 of 2023 - European Union (Drinking Water) Regulations 2014, 2017 and 2023
(F)	Analysis carried out at our Farranfore Laboratory.
(D)	Analysis carried out at our Dunrinc Laboratory.
LOD	Parameter Limit of Quantification

Notes

Note A	The water should not be aggressive.
Note C	Acceptable to customers and no abnormal change.
Note D	In the case of surface water treatment, a parametric value not exceeding 1 NTU in the water ex treatment works must be strived for.
Note E	Irish water parametric limit for TVC is <100 cfu/mL.
Note F	Fluoridated supplies 0.8 mg/L; Natural supplies 1.5 mg/L.
Note 6	Subcontracted Parameter.

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(registered office)

4 park business centre | **farranfore** | county kerry | ireland | telephone +353 66 976 3588 | fax +353 66 976 3589
dunrinc | **killarney** | county kerry | ireland | telephone +353 64 66 33922 | fax +353 64 66 39022

web site www.southernscientificireland.com | e-mail info@southernscientificireland.com

directors: K. Murphy, M. Murphy & C. Murphy
registered in ireland no 323196 | vat reg no IE 6343196 M





Customer Sample Ref:	23-0875 Drumconrath	Customer Sample Code:	23-0875
Entity Name:		Sample Condition:	Satisfactory
Site / Project:	Compliance	Entity Code:	
Our Reference:	114783 (23-37006) -	Sampled By:	Customer
Date Sampled:	18/12/2023	Sample Matrix:	Effluent
		Time Sampled:	:

Method:	Parameter:	Units	LOQ	Result	***Limits
	<u>Chemical Analysis: (F)</u>				
SCP 052	Hydrogen Ion (pH)	pH units	4.0	7.6	
SCP 052	Conductivity	µS/cm @ 20 °C	15	686	
SCP 027B	Chloride	mg/L	0.5	35.3	
- Note 6	Cyanide	µg/L	10	< 10	
SCP 063	Fluoride	µg/L	100	189	
SCP 0271	Total Hardness	mg/L CaCO3	5	321	
SCP 038/073	* Barium (Ba)	µg/L	1	41	
SCP 038/073	* Tin (Sn)	µg/L	10	< 10	
SCP 038/073	Antimony	µg/L	1	< 1	
SCP 038/073	Arsenic	µg/L	1	< 1	
SCP 038/073	Boron	µg/L	20	30	
SCP 038/073	Cadmium	µg/L	0.45	< 0.45	
SCP 038/073	Chromium	µg/L	1	< 1	
SCP 038/073	Cobalt (Co)	µg/L	1	< 1	
SCP 038/073	Copper	µg/L	1	10	
SCP 038/073	Lead	µg/L	1	< 1	
SCP 038/073	Mercury	µg/L	0.5	< 0.5	
SCP 038/073	Molybdenum (Mo)	µg/L	5	< 5	
SCP 038/073	Nickel	µg/L	1	1	
SCP 038/073	Selenium	µg/L	5.00	< 5.00	
SCP 073	Vanadium (V)	µg/L	1.0	< 1.0	
SCP 038/73	Zinc (Zn)	µg/L	8	< 8	
SCP 114A	Benzene	µg/L	0.1	< 0.1	
- Note 6	Hexachlorobenzene	µg/L	0.050	< 0.050	
SCP 114A	Carbon tetrachloride	µg/L	1	< 1	
- Note 6	Dichloromethane	µg/L	0.5	< 1.0	
SCP 114A	1,2-Dichloroethane	µg/L	0.2	< 0.2	
SCP 114A	Chloroform	µg/L	2	< 2	
SCP 114A	Ethylbenzene	µg/L	0.5	< 0.5	
SCP 114A	Hexachlorobutadiene	µg/L	0.5	< 0.5	
SCP 114A	Tetrachloroethene	µg/L	0.1	< 0.1	
SCP 114A	Toluene	µg/L	0.5	< 0.5	
SCP 114A	Trichloroethene	µg/L	0.1	< 0.1	
SCP 060B	Acenaphthene	µg/L	0.005	< 0.005	
SCP 060B	Acenaphthylene	µg/L	0.005	< 0.005	
SCP 060B	Anthracene	µg/L	0.005	< 0.005	
SCP 060B	Benz(a)anthracene	µg/L	0.005	< 0.005	
SCP 060B	Benzo(a)pyrene	µg/L	0.003	< 0.003	
SCP 060B	Benzo(b)fluoranthene	µg/L	0.005	< 0.005	

(registered office)

4 park business centre | **farranfore** | county kerry | ireland | telephone +353 66 976 3588 | fax +353 66 976 3589
 dunrine | **killarney** | county kerry | ireland | telephone +353 64 66 33922 | fax +353 64 66 39022

web site www.southernscientificireland.com | e-mail info@southernscientificireland.com

directors: K. Murphy, M. Murphy & C. Murphy
 registered in ireland no 323196 | vat reg no IE 6343196 M



Customer Sample Ref:	23-0875 Drumconrath	Customer Sample Code:	23-0875
Entity Name:		Sample Condition:	Satisfactory
Site / Project:	Compliance	Entity Code:	
Our Reference:	114783 (23-37006) -	Sampled By:	Customer
Date Sampled:	18/12/2023	Sample Matrix:	Effluent
		Time Sampled:	:

Method:	Parameter:	Units	LOQ	Result	***Limits
SCP 060B	Benzo(k)fluoranthene	µg/L	0.005	< 0.005	
SCP 060B	Benzo(ghi)perylene	µg/L	0.005	< 0.005	
SCP 060B	Chrysene	µg/L	0.005	< 0.005	
SCP 060B	Dibenz(a,h)anthracene	µg/L	0.005	< 0.005	
SCP 060B	Fluoranthene	µg/L	0.005	< 0.005	
SCP 060B	Fluorene	µg/L	0.005	< 0.005	
SCP 060B	Indeno(1,2,3-cd)pyrene	µg/L	0.005	< 0.005	
SCP 060B	Naphthalene	µg/L	0.005	< 0.005	
SCP 060B	Phenanthrene	µg/L	0.005	< 0.005	
SCP 060B	Pyrene	µg/L	0.005	< 0.005	
SCP 060B	Sum Benzo (b)&(k) fluoranthene	µg/L	0.005	< 0.005	
SCP 060B	Total PAH's (sum of 16)	µg/L	0.078	< 0.078	
SCP 060B	Dieldrin	ng/L	5	< 5	
SCP 060B	Dichlobenil	ng/L	5	< 5	
- Note 6	2,4-D	µg/L	0.10	< 0.10	
- Note 6	MCPA	µg/L	0.10	< 0.10	
- Note 6	MCPP (Mecoprop)	µg/L	0.10	< 0.10	
- Note 6	Glyphosate	µg/L	0.1	0.1	
- Note 6	Diuron	µg/L	0.03	< 0.05	
- Note 6	Isoproturon	µg/L	0.10	< 0.10	
- Note 6	Linuron	µg/L	0.10	< 0.10	
- Note 6	Atrazine	µg/L	0.100	< 0.100	
	<u>Chemical Analysis: (F)</u>				
- Note 6	Simazine	µg/L	0.100	< 0.100	
- Note 6	2, 6-dichlorobenzamide	µg/L	0.1	0.1	
- Note 6	Isodrin	µg/L	0.050	< 0.050	
- Note 6	Trichlorobenzene- sum of isomers	µg/L	0.50	< 3.00	
- Note 6	Hexachlorocyclohexane- sum of isomers	µg/L	0.003	< 0.200	
SCP 114A	Xylene- sum of isomers	µg/L	0.1	< 0.1	

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dunrine | **killarney** | county kerry | ireland | telephone +353 64 66 33922 | fax +353 64 66 39022

web site www.southernscientificireland.com | e-mail info@southernscientificireland.com

directors: K. Murphy, M. Murphy & C. Murphy
registered in ireland no 323196 | vat reg no IE 6343196 M

