Annual Environmental Report









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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2024 AER

This Annual Environmental Report has been prepared for D0014-01, Sligo, in Sligo 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.

1.2 TREATMENT SUMMARY

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

• Sligo WWTP with a Plant Capacity PE of 50000, the treatment type is 3P - Tertiary P removal .

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
TPEFF2700D0014SW001	Sligo WWTP	Treated	Non-Compliant	Total Phosphorus (as P) mg/l

1.4 LICENCE SPECIFIC REPORTING

Assessment / Report

There are no Licence Specific Reports included in this AER.

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 SLIGO WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - SLIGO 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
BOD, 5 days with Inhibition (Carbonaceo mg/I	13	100	44
Total Nitrogen mg/l	13	30	20
Suspended Solids mg/l	13	256	74
Total Phosphorus (as P) mg/l	13	9.60	1.79
COD-Cr mg/l	13	294	118
Hydraulic Capacity	N/A	25367	16016

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 less 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 - TPEFF2700D0014SW000

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	125	250	N/A	25	N/A	N/A	25	Pass
Suspended Solids mg/l	35	87.5	N/A	25	N/A	N/A	8.13	Pass
BOD, 5 days with Inhibition (Carbonaceo mg/I	25	50	N/A	25	N/A	N/A	4.78	Pass
Temperature °C	25	25	N/A	25	N/A	N/A	13	Pass
Total Oxidised Nitrogen (as N) mg/l	15	18	N/A	25	1	N/A	3.27	Pass
Ammonia-Total (as N) mg/l	10	12	N/A	25	2	N/A	4.12	Pass
pH pH units	9	9	N/A	25	N/A	N/A	7.67	Pass
Total Phosphorus (as P) mg/l	2	2.4	N/A	25	1	1	0.476	Fail
E. Coli no./100mls	N/A	N/A	N/A	4	N/A	N/A	10498	

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)
Lead - unfiltered µg/l	N/A	N/A	N/A	2	N/A	N/A	0.876	
Boron - unfiltered mg/l	N/A	N/A	N/A	1	N/A	N/A	0.360	
Antimony - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	0.707	
Copper - unfiltered mg/l	N/A	N/A	N/A	1	N/A	N/A	0.006	
Faecal coliforms no./100mls	N/A	N/A	N/A	4	N/A	N/A	10469	
Conductivity @20°C μS/cm	N/A	N/A	N/A	25	N/A	N/A	1801	
Manganese - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	46	
PCBs (Total) µg/l	N/A	N/A	N/A	2	N/A	N/A	0.070	
Total Nitrogen mg/l	N/A	N/A	N/A	21	N/A	N/A	7.91	
Selenium - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	3.54	

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)
Aluminium - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	69	
Dissolved Oxygen mg/l	N/A	N/A	N/A	23	N/A	N/A	6.58	
Enterococci (Intestinal) cfu/100ml	N/A	N/A	N/A	4	N/A	N/A	10511	
Chromium - unfiltered µg/l	N/A	N/A	N/A	2	N/A	N/A	0.876	
Arsenic - unfiltered µg/l	N/A	N/A	N/A	2	N/A	N/A	0.876	
Nitrate (as N) mg/l	N/A	N/A	N/A	25	N/A	N/A	3.77	
Nickel - filtered µg/l	N/A	N/A	N/A	2	N/A	N/A	2.00	
Salinity ppt	N/A	N/A	N/A	12	N/A	N/A	0.896	
Cadmium - unfiltered µg/l	N/A	N/A	N/A	2	N/A	N/A	0.394	
Copper - filtered µg/l	N/A	N/A	N/A	1	N/A	N/A	0.065	

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)
lron - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	50	
Total Petroleum Hydrocarbons μg/l	N/A	N/A	N/A	3	N/A	N/A	8.76	
Fats, Oils and Greases mg/l	N/A	N/A	N/A	5	N/A	N/A	4.56	
Mercury - filtered µg/l	N/A	N/A	N/A	2	N/A	N/A	0.438	
Nitrite (as N) mg/l	N/A	N/A	N/A	25	N/A	N/A	0.228	
Zinc - filtered µg/l	N/A	N/A	N/A	1	N/A	N/A	39	
ortho-Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	25	N/A	N/A	0.290	

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):

Refer to Incident Section of the Report.

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 TPEFF2700D0014SW000

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	170003, 335887	RS35G010180	No	No	No	Yes	Poor
Upstream	169485, 335974	RS35G010230	No	No	No	Yes	Poor
Downstream	168053, 337162	TW27005308SB5010	No	No	No	Yes	Moderate
Downstream	166501, 339153	TW27005308SB5011	No	No	No	Yes	Moderate
Downstream	168900, 336370	TW27005308SB5009	No	No	No	Yes	Moderate
Downstream	169045, 336236	TW27005308SB5008	No	No	No	Yes	Moderate
Downstream	166553, 336802	TW27005308SB5012	No	No	No	Yes	Moderate
Downstream	163026, 339692	TW27005308SB5013	No	No	No	Yes	Moderate

The results for ambient results and / or additional monitoring data sets are included in the Appendix 7.1 - Ambient monitoring summary

Significance of Results:

The coastal/transitional ambient monitoring results do not meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

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

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

The discharge from the wastewater treatment plant does not have an observable impact on the water quality.

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

Other causes of deterioration in water quality in the area are unknown.

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

The discharge from the wastewater treatment plant does not have an observable impact on the designated shellfish water quality.

The discharge from the wastewater treatment plant does not have an observable impact on the coastal/transitional water quality.

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - SLIGO WWTP

2.1.4.1 Treatment Efficiency Report - Sligo 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)
cBOD	284672	31233	89
SS	482680	53070	89
TN	128638	49446	62

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
ТР	11625	3107	73
COD	768298	166330	78

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

2.1.4.2 Treatment Capacity Report Summary - Sligo 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.

Sligo WWTP					
Peak Hydraulic Capacity (m ³ /day) - As Constructed					
DWF to the Treatment Plant (m ³ /day)					
Current Hydraulic Loading - annual max (m³/day)					
Average Hydraulic loading to the Treatment Plant (m³/day)					
Organic Capacity (PE) - As Constructed					
Organic Capacity (PE) - Collected Load (peak week) ^{Note1}					
Organic Capacity (PE) - Remaining					
Will the capacity be exceeded in the next three years? (Yes/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 - SLIGO WWTP

'Other inputs' to the waste water treatment plant are summarised in 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)
Domestic /Septic Tank Sludge	26.14	Weight (Tonnes)		2	No	Yes	No

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 environm	ental complaints in 2024.		

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)
There were no reportable incidents in 2	024.		

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2024	0
Number of Incidents reported to the EPA via EDEN in 2024	0
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 2024 (No. of events)	Total volume discharged in 2024 (m3)	Monitoring Status
(P)SW1/SWB	168439, 336785	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Monitored
SW3	168981, 336274 Yes		Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW4	169661, 335962	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW5	169348, 335975	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SWA	167882, 337367	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
твс	164081, 339807	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored

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 2024 (No. of events)	Total volume discharged in 2024 (m3)	Monitoring Status		
твс	169157, 336064	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored		
твс	-, -	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored		
твс	168507, 336839	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored		

The contents presented in this table include the most up to date information available at the time of writing. Any TBC SWO(s) were identified as part of the ongoing 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 (m3)?	309491
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?	Yes

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

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Tables 4.2.1 and 4.2.2.

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
D0014-01-Priority Substances Assessment	Yes	No
D0014-01-Shellfish Impact Assessment	Yes	No

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?	Yes
List reason e.g. additional SWO identified	Agglomeration boundary change; Additional SWOs; Amalgamation with Rosses Point
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	N/A
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	Yes
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:

Signed: Date: 26/05/2025

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 - Ambient monitoring summary

Sligo WWTP

			Receiving W	aters Designatio	ons (Y/N)	
	Irish Grid	Bathing	Drinking			
Ambient Monitoring Point Code	Reference	Water	Water	FWPM	Shellfish	WFD Status
RS35G010180	170003E 335887N	No	No	No	Yes	Poor
RS35G010230	169485E 335974N	No	No	No	Yes	Poor
TW27005308SB5008	169045E 336236N	No	No	No	Yes	Moderate
TW27005308SB5009	168900E 336370N	No	No	No	Yes	Moderate
TW27005308SB5010	168053E 337162	No	No	No	Yes	Moderate
TW27005308SB5011	166501E 339153N	No	No	No	Yes	Moderate
TW27005308SB5012	166553E 336802N	No	No	No	Yes	Moderate
TW27005308SB5013	163026E 339692N	No	No	No	Yes	Moderate

County	Licence Ref.	Agglomera	at Receiving Water Body	Monitoring Location	Monitoring Result Source	Date	рН	Temperatu e (°C)	f BOD mg/l	COD mg/l	SS mg/l	Total Nitrogen (as N) mg/l	Total Phosphorus (as P) mg/I	Ammonia (as N) mg/l	Orthophosp hate (as P) mg/l	Dissolved Oxygen mg/l	Total Oxidised Nitrogen (as N) mg/l	Dissolved Inorganic Nitrogen (as N) mg/I	Faecal Coliforms cfu/100ml	Escherichia coli cfu/100ml	Intestinal Enterococo cfu/100ml	ti Inspection	SSRS	Water level	Conductivit Y	t Nitrate	Chloride mg/l	Fluoride	Ammonium (NH4)	Major anions	Major Cations	Priority Subs	Metals & Organic Compounds	Salinity	Nitrate	Nitrite	Chlorophyll ug/l	Coliform Bacteria MPN/100m Is	Conducitvit Turbidity y uS/cm NTU
Sligo	D0014-01	Sligo	Garavoge Estuary	Number of samples Required (4x agreed LD)			16	16	16	0	0	16	0	16	16	16	16	16	0	0	0	16	0	0	0	0	16	16	0	0	0	0	0	0	0	0	0		
Issued on	03/03/2010																																						
				Crozon Promenade #1	SS Excel	16/02/2024	8.00	7.8	0.9			1		0.01	0.01	11.57	0.35	0.31																< 0.1			<2.0		
				Kempton Promenade #2																																			
				Custom House Quay #3																																			
				Hughes Bridge #4																																			
				Beyond Deep Water Quay #5																																			
				Cregg Out #6	ss excel	16/02/2024	8.10	9.3	0.9			1.5		0.17	0.02	11.52	1.04	1.22																< 0.1			<2		
				Knappagh Out #7																																			
				Rosses Point Slipway #8	ss excel	16/02/2024	8.00	9.5	0.9			<0.5		0.51	0.02	12.01	<0.20	0.53																32.9			<2		
				Crozon Promenade #1	ss excel	07/05/2024	8.30	12.4	1.1			0.6		0.01	0.009	13.24	0.23	<0.25																< 0.1			3.7		
				Kempton Promenade #2																																			
				Custom House Quay #3																																			
				Hughes Bridge #4																																			
				Beyond Deep Water Quay #5																																			
				Cregg Out #6	ss excel	07/05/2024	8.20	10.70	0.90			1.20		0.09	0.009	11.59	1.14	1.11																0.10			2.10		
				Knappagh Out #7								L																											
				Rosses Point Slipway #8	ss excel	07/05/2024	8.10	12.7	1.1			<0.5		0.46	0.009	11.35	<0.20	<0.25																31.2			2.1		
																							_														_		
				Crozon Promenade #1	cert	07/08/2024	8.1	17.1	0.9	-		0.6		0.01	0.009	5.89	<0.2	<0.25				-	-									-		< 0.1			<2.0		
				Kempton Promenade #2																																			
				Custom House Quay #3			_			-												_	-									_					-		
				Hughes Bridge #4					-	_														_								_							
				Beyond Deep Water Quay #5			_		-													_		_					_			-							
				Cregg Out #6	cert	07/08/2024	8.3	13.1	0.9	_		1.1		0.05	0.009	8.77	0.64	0.7						_								_		0.1			2.1		
				Knappagh Out #7			_															_	-	_								_					-		
				Rosses Point Slipway #8	cert	07/08/2024	8.2	16.2	1			<0.5		0.034	0.009	8.98	< 0.02	0.083		-		-	-	-										33.6			2.7		
							-	-		-											-			_								-							
				Crozon Promenade #1	cert	05/11/2024	8	19.3	0.9	-		0.7		0.02	0.04	9.09	0.22	<0.25					-	-								-		<0.1			<2		
				Kempton Promenade #2				-		-																						_							
				Custom House Quay #3						-													-	-								-					-		
				Hughes Bridge #4				-		-													-	-		+	+		-			+				-		-	
				Beyond Deep Water Quay #5				40.4		-	-	4.2		0.02	0.00	0.00	4.20	0.72	-	-	-	-	-	+		-	-		+	-	+	+	-	0.4		+	-	-	
				Cregg Out #b	cert	05/11/2024	8.2	19.1	0.9	-		1.2	-	0.03	0.06	9.39	1.39	0.72	-	-	-	-	-	-		-	-		-	-		-	-	0.1	-	-	<2	-	
				knappagn Out #/			-	40.4		+		0.0		0.45	0.02	0.02		-0.25	-	+	-	-	-	-		-	+		-	-		+	-	20.0		-		+	
				Rosses Point Sepwey #8	cert	05/11/2024	8	19.1	0.9	-		<0.5		U.45	0.02	9.03	<0.2	<0.25			-		-			-				-		-		29.6		-	<2	-	