

Andrew England

From: Andrew England
Sent: Thursday 6 June 2024 14:44
To: Katrina Browne
Subject: FW: Water Cremation Ireland Ltd Discharge Licence (TE-10455-01)
Attachments: Book2.xlsx

Hi Katrina,
Just sharing the below as an FYI, I haven't reviewed the information provided yet.

Kind Regards,
Andrew

From: Andrew England
Sent: Wednesday, June 5, 2024 11:08 PM
To: Andrew England
Subject: RE: Water Cremation Ireland Ltd Discharge Licence (TE-10455-01)

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Hi Andrew,

I spoke with the site, and they advised the following:

- They currently can have 4-5 bodies/week.
- Over the next 12 months they are forecasting to have 720 bodies/year.
- Main issue is the unpredictability of the industry. They may need to have capacity to have 4-5 bodies in a single day and then none for a few days.
- I am proposing have a Max Daily Mass Emission based on the highest lab result for each parameter to date X 4 bodies in 1 day.
- I am also proposing have a Weekly Average Mass Emission based on the highest lab result to date X 15 bodies in 1 week.

See proposed increase below and works attached in spreadsheet. Some lab results are included in the spreadsheet and can be sent on separately if required (I will just need to remove some data for GDPR reasons first.

Comparison of existing limits & proposed limits

	Existing	Proposed Max Daily Emission	Proposed Weekly
Flow Rate m ³ /day	6	24	90
BOD Mg/l	9500	14800	
BOD Kg/day	56	354	1332
Cadmium Mg/l	0.05	-	-
Cadmium Kg/day	0.001	-	-
COD Kg/day	27000	-	-
COD Kg/day	160	634	2385
Lead Mg/l	0.02	-	-
Lead Kg/day	0.001	-	-
Mercury Mg/l	0.002	0.003	
Mercury Mg/l	0.001	-	-
Nitrogen Mg/l	70	500	
Nitrogen Kg/day	0.5	12	45
FOG Mg/l	6700		
FOG Kg/day	40		60
Phosphorus Mg/l	25	45	
Phosphorus Kg/day	0.2	1	4
Suspended Solids Mg/l	1800	-	-
Suspended Solids Kg/day	11	40	150
Zinc Mg/l	2	-	-
Zinc Kg/day	0.02	-	0.05

If you have any queries, please don't hesitate in contacting me,

Senior Environmental Consultant

Rowan Engineering Consultants Ltd.

Head Office: Unit 14, Scurlockstown Business Park, Trim, Co. Meath, Ireland

Regional Office: Office 18, Oran Town Centre, Station Road, Oranmore, Co Galway, H91 APK0.

(Please send all correspondence to Trim office)

Tel: +

Mob: +

Email: [redacted]

Website: www.rec.ie

From: '

Sent: Wednesday, May 15, 2024 4:00 PM

To: Andrew England <aengland@water.ie>

Subject: RE: Water Cremation Ireland Ltd Discharge Licence (TE-10455-01)

Hi Andrew,

Thanks for getting back to me. I just tried you phone there, but you might be busy.

Basically, as the Water Cremation alternative is gaining popularity in Ireland, the site will need to cater for multiple ceremonies per day. The one machine can cater for up to 5-6 bodies per 24 hours.

They are therefore looking to increase their discharge limits for certain parameters as per the table below:

Comparison of existing limits & proposed limits

	Existing	Proposed Increase
Flow Rate m ³ /day	6	30
BOD Mg/l	9500	14800
BOD Kg/day	56	75
Mercury Mg/l	0.002	0.003
Nitrogen Mg/l	70	500
Nitrogen Kg/day	0.5	2.5

Phosphorus Mg/l	25	45
Phosphorus Kg/day	0.2	0.3

The requested increases are based off lab results from ceremonies to date rather than data provided by other parties.

Just before I submit a Discharge License review application, it would be good to discuss with you if the proposed increases are a possibility? And if Navan WWTP have the capacity to receive same?

Kind Regards

Senior Environmental Consultant

Rowan Engineering Consultants Ltd.

Head Office: Unit 14, Scurlockstown Business Park, Trim, Co. Meath, Ireland

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Tel: +353 1 850 8000

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Email: info@rec.ie

Website: www.rec.ie

From: Andrew England <aengland@water.ie>

Sent: Wednesday, May 15, 2024 12:00 PM

To: I

Subject: RE: Water Cremation Ireland Ltd Discharge Licence (TE-10455-01)

Hi

Free any time today.

Kind Regards,

Andrew

From: .

Sent: Monday, May 13, 2024 5:48 PM

To: Andrew England <aengland@water.ie>

Subject: Water Cremation Ireland Ltd Discharge Licence (TE-10455-01)

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Hi Andrew,

Would it be possible to arrange a quick call with you at some stage this week?

I would like to discuss the option of increasing the emission limit values of Pure Reflections Discharge Licence. I have some calculations completed but it would be good to have an understanding of what capacity Navan WWTP currently has available etc.

Kind Regards,

Senior Environmental Consultant

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Go raibh maith agat as d'aird a thabhairt.

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Thank you for your attention.

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