

11 January 2018

Dear Lucy

Regarding the capacity of the sewage system, please find attached the outflow calculations for the sewage treatment plant versus the 'Consent to Discharge' we currently operate under. The consent figure was originally agreed with the authorities on the basis of the declared capacity of the plant at installation. Anecdotally, we have been told the plant can service around 35 properties. As the authorities make their consent based on outflow, it was them who converted the capacity into an outflow figure, for which they gave the current 'Consent to Discharge' figure of 24.3 cubic metres per day. The table I submit to you is the details of the existing properties converted using the legislative guidance into discharge flow rates. I have added the notional 'extra' properties and demonstrated that this maintains our rated outflow within the official consent figure (and indeed within that anecdotal figure of 35 properties!). Further than this, I attach the email dialogue between myself and Emma Musgrove of the Environment Agency, in which she validates the figures I have submitted, subject only to the plant itself being capable of operating at this level of outflow.

KEE Process Ltd. of Aylesbury conducted an inspection of the plant in 2005 and reported the maximum design outflow capacity of the existing plant to be 27 cubic metres per day.

The plant was apparently installed in 1988, but no engineering data relating to the purchase and installation was made available to the current management team when the plant was adopted by the community under the banner of Shelwick Services Ltd. in 2007. I hope this is helpful.

regards  
James Stewart  
Company Secretary  
Shelwick Services Ltd.





RE: Consent to discharge

Good Afternoon James,

Thank you for your email of 04 January 2017 with the attached calculations for the individual property flow rates serviced by the treatment plant with the consent number AN0065701.

After looking into the permit AN0065701 I can confirm that the consented daily discharge rate is 24.3 cubic metres a day. Considering the worst case scenario of all seven of the new properties requiring connection to the existing plant, I agree with your submitted calculations of a total daily discharge of 21.72 cubic metres a day. Therefore, you will not be required to provide an application to vary the existing permit to a greater volume as the existing volume on the permit is greater than the new calculated total daily discharge volume.

Following the good news of not requiring any changes to your existing permit, I wanted to provide a gentle reminder that the existing plant and infrastructure in place will need to be fully capable of catering to the increased additional daily discharge volume. This will be the responsibility of the permit holder to ensure that the package treatment plant is fully able to provide a final effluent that is within the consent limits. Should you have any concerns relating to this, please feel free to discuss them with myself.

Finally, as we previously discussed on the telephone, the license of AN0065701 was varied to include a change in license holder name. This action was carried out by the organisation of Environment Agency Wales. The responsibility now falls to Environment Agency England. I have raised on your behalf, a request to find a copy of the original license and the transfer of license holder document so you can keep these for your records. In the meantime, I have raised a request to temporarily put to you in writing the limits of the existing permit which will be for your own information whilst waiting for the copies to be produced.

Any questions, or if I can be of any further help, please do not hesitate to drop me a call.

Kind Regards,  
Emma

Emma Musgrove  
Environment Officer  
English Wye and Lower Teme (Land and Water)  
West Midlands

☎ **External:** 02030 245 367 **Mobile:** 07795 641 683

✉ [Emma.Musgrove@environment-agency.gov.uk](mailto:Emma.Musgrove@environment-agency.gov.uk)

📍 Riversmeet House, Newtown Industrial Estate, Northway Lane, Tewkesbury,  
Gloucestershire, GL20 8JG

**From:** James KS Stewart [mailto:teqsas@btinternet.com]

**Sent:** 04 January 2017 13:58

**Cc:** maxiiboy@hotmail.com; Shelwick Services <shelwicksservices@gmail.com>

**Subject:** Consent to discharge

Greetings Emma





Happy New Year.

Thank you for discussing Consent No. AN0065701 with me on the telephone today.

The discussion was around the potential addition of up to 7 new domestic properties to our local private sewage plant.

A previous communication with the Environment Agency confirmed that the figures submitted at that time for the existing flow and discharge rates were within the existing Consent allowance.

Please find attached my updated figures to account for the new properties (as yet not built) and the higher overall discharge that would result were they all to end up connected to our sewage plant.

Although they may seek other solutions for their waste treatment, I just want to ensure that, were they to seek connection, I would be in a position to give them a definitive response.

I look forward to your verification that my figures are in order and that they still fall within our existing Consent license.

As I only have the original Consent from Welsh Water and an acknowledgement of my application for the Consent change of name of license holder from John Powell to my name, James Stewart, I would appreciate a copy of the current license along with the other Consent advice you undertook to reply with.

Kind Regards

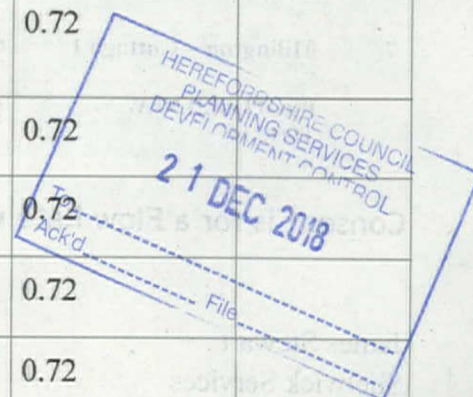
James Stewart  
Consent Holder and Company Secretary  
Shelwick Services  
Shelwick  
Hereford  
HR1 3AL

From: James K2 Stewart [mailto:stewartj@btinternet.com]  
Sent: 04 January 2017 13:58  
Cc: matt.boy@hotmail.com; Shelwick Services <shelwickservices@gmail.com>  
Subject: Consent to discharge



**Existing connections and discharge calculations** (Using data from 'Flows and Loads - 4' ex British Water)

		No. of bedrooms	No. of people	>50 P reduce to 0.8 x P	Flow Rate Vol. P x 150/1000 c.m.	
1	<b>Bannut Tree House</b> <i>Marcus &amp; Mrs. Thomas</i>	3	5	4	0.6	
2	<b>Ash Tree Cottage</b> <i>John Badham</i>	3	5	4	0.6	
3	<b>Heather View</b> <i>Mrs. Chadd</i>	3	5	4	0.6	
4	<b>Shamrock</b> <i>Mr. &amp; Mrs. Stinton</i>	4	6	4.8	0.72	
5	<b>Willows</b> <i>Mr. Powell</i>	3	5	4	0.6	
6	<b>Dorgar</b> <i>Mrs. D. Brimfield</i>	3	5	4	0.6	
7	<b>Peppercorns</b> <i>John &amp; Mrs. Walwyn</i>	3	5	4	0.6	
8	<b>Rozel</b> <i>Jeanette Hyde</i>	3	5	4	0.6	
9	<b>Helensdale</b> <i>Colin &amp; Mrs. Parry</i>	4	6	4.8	0.72	
10	<b>Hileah</b> <i>David &amp; Mrs. Evans</i>	4	6	4.8	0.72	
11	<b>The Old Farmhouse</b> <i>Ruth + Nick Millington</i>	4	6	4.8	0.72	
12	<b>Russet House</b> <i>Fiona + Max Richards</i>	4	6	4.8	0.72	
13	<b>Bay Tree House</b> <i>Sue + Neil Beaumont</i>	5	7	5.6	0.84	
14	<b>Meadowbank</b> <i>—new owners—</i>	3	5	4	0.6	
15	<b>Spring House</b> <i>Geoff &amp; Mrs. Williams</i>	3	5	4	0.6	
16	<b>Oak Tree Cottage</b> <i>Lyn Rushgrove + Andrew Carpenter</i>	4	6	4.8	0.72	
17	<b>Rambles</b> <i>Joe &amp; Mrs. Fleming</i>	4	6	4.8	0.72	
18	<b>Fox's Barn</b> <i>Sue + Floyd Woodrow</i>	4	6	4.8	0.72	
19	<b>Pendle</b> <i>Iris Eastham</i>	4	6	4.8	0.72	
20	<b>Poplars</b> <i>Les &amp; Sandra Corbett</i>	4	6	4.8	0.72	
21	<b>Kedleston House</b> <i>John &amp; Pauline Stiff</i>	4	6	4.8	0.72	





# Shelwick Services Sewage Plant Loading Calculations – HR1 3AL

22	Shelwick Farm James Stewart	5	7	5.6	0.84
23	The Poppys Jenny + Rob Subak-Sharpe	5	7	5.6	0.84
24	Fern Cottage Richard & Mrs. Price-Gough	3	5	4	0.6
25	Oakley End Daphne Whittaker	3	5	4	0.6
	<b>TOTALS</b>	92	142	113.6	17.04

Consent is for a Flow Rate maximum of 24.3 cubic metres per day

As off 31/12/16 the local Planning Office have approved the construction of 7 new domestic properties in the local village 'envelope'. None of these have yet sought connection to our local private sewage plant, but recognising that this may occur, Shelwick Services is seeking to ensure that we have considered all the implications and can respond with confidence, particularly that we satisfy the discharge requirements laid down in our license.

## Possible discharge if all 7 planned houses are added

		No. of bedrooms	No. of people	>50 P reduce to 0.8 x P	Flow Rate Vol. P x 150/1000 c.m.
	<b>EXISTING TOTALS</b>	92	142	113.6	17.04
1	John Badham Cottage 1	3	5	4	0.6
2	John Badham Cottage 2	3	5	4	0.6
3	Powell – House 1	4	6	4.8	0.72
4	Powell – House 2	4	6	4.8	0.72
5	Powell – House 3	4	6	4.8	0.72
6	Powell – House 4	4	6	4.8	0.72
7	Milington – Cottage 1	3	5	4	0.6
	<b>PROPOSED NEW TOTALS</b>	117	181	144.8	21.72

Consent is for a Flow Rate maximum of 24.3 cubic metres per day

James Stewart  
Shelwick Services  
Shelwick  
HR1 3AL

Tel: 01432 341131

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