

[REDACTED]

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**From:** [REDACTED]@dalradian.com>  
**Sent:** 04 August 2017 17:30  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Water Quality Treatment Process

Hi [REDACTED]

Sorry for the delay. The water treatment process uses a flocculent to support suspended solids removal, and an acid and base for pH adjustment.

For the flocculent we use is a BASF drinking water inspectorate approved product called Magnafloc LT22s-DWI. The floc comes in a solid form in 25kg bags. We usually stock about 5 to 10 bags at any one time. This is stored in a shed in Gortin to keep it dry. The flocculated sediment settles out in the water treatment plant. We are currently not using any but would use about 6 kg per week during normal operating conditions.

We also have an option to use sodium hydroxide (NaOH) and sulphuric acid (H2SO4) solutions for pH control of the discharged water. These are supplied by BRENNTAG. pH is monitored on a continuous basis at the water treatment plant prior to its discharge. The water has essentially always been on the alkaline side of neutral (about 8 pH units) and no acid or base are required to control the pH within the discharge consent (068/12/2) limits. However, we retain up to 1m3 of each substance on the site at the water treatment plant and within separate bunds that each hold 110% of their storage capacity. The system remains set up to ensure pH automatically stays within the consented range as applicable.

If you have any further questions then just let me know.

Regards

[REDACTED]

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**From:** [REDACTED]@daera-ni.gov.uk]  
**Sent:** 04 August 2017 16:01  
**To:** [REDACTED]@dalradian.com>  
**Cc:** [REDACTED]  
**Subject:** FW: Water Quality Treatment Process

Hi [REDACTED]

As discussed with you yesterday if possible could you please provide the information as shown to me today.

Best Regards

[REDACTED]

Water Regulation Team  
Lisburn

[REDACTED]

**From:** [REDACTED]  
**Sent:** 31 July 2017 12:15  
**To:** '[REDACTED]@dalradian.com>  
**Cc:** [REDACTED]@daera-ni.gov.uk>  
**Subject:** RE: Water Quality Treatment Process

Thank you [REDACTED] that will be fine.

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**From:** [REDACTED]@dalradian.com]  
**Sent:** 31 July 2017 12:01  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Water Quality Treatment Process

Hi [REDACTED]

[REDACTED] on vacation for a couple of days. We will get you the information you are after when he gets back on Thursday.  
If you need it before then I will look to get up to date values

Thank you  
[REDACTED]

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**From:** [REDACTED]  
**Sent:** 31 July 2017 11:51  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Water Quality Treatment Process

Hi [REDACTED]

Could you please provide me with an up to date accurate inventory, regarding the chemicals currently being used in your water quality treatment process. Please include:

- The chemicals being used.
- The volumes and quantities.
- Where the chemicals are being stored at your premises

Best Regards  
[REDACTED]

Water Regulation Team  
Lisburn

[REDACTED]  
[REDACTED]