



Site Details: **Southern Dairys, Cliff view farm, Camborne TR14 0HP**

Date: 13th June 2023

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Service Details

Engineers Notes:

Upon arrival, the plant was experiencing minor floc carryover in the final effluent. A spot sample was taken, which showed that flocculation was occurring, although the reaction was slow.

Further investigation identified a small piece of debris lodged in the coagulant injection point non-return valve. This blockage was reducing the coagulant dose below the required 400 ppm.

After the debris was removed and the coagulant dosing was restored to the optimal rate, a further sample was taken from the flocculator. The sample demonstrated a rapid flocculation reaction, indicating that treatment performance had returned to normal.

Floc carryover in the final effluent cleared within approximately one hour of restoring the correct coagulant dose.

All pH probes were calibrated successfully. However, the inlet probe exhibited significant drift (<1.15) and responded very slowly in both pH 4 and pH 10 buffer solutions. The probe also recorded a slope of 71%.

The slope value is an indicator of pH probe health. As the slope degrades and falls below 75%, the probe is considered to have reached the end of its service life and should be replaced.

A quotation for replacement of this probe will be provided at the next service visit.

All equipment was checked and found to be in good serviceable condition.

The chemical dosing system was inspected for blockages and sediment build-up and was found to be clear.

All instruments were checked and found to be in good serviceable condition.

All tanks were inspected for signs of corrosion and debris build-up; all were found to be in good condition.

A chemistry test was carried out, and excellent flocculation was achieved.

Effluent samples were taken for analysis: 1 raw sample and 2 final samples.

Actions from service:

1 -New inlet probe to be quoted and installed for next service due: 13th September 2023

2- Effluent sample to be sent for analysis and reported

Parts used on this service:	Code:	Cost	Invoice number
NON	NON	NON	NON

Engineers Present :	Name: Simon Gresty		
Date:	13/06/2023	14/06/2023	
Time:	06:00 to 16:00	07:00 to 18:00	
Milage record:	Worcester to Camborne = 460 mile RND		Number of Vehicles? 1
Overnight accomodation	Number of nights? 1		Number of engineers? 1
Contractors Present:	Name:N/A		Company:
	Name:N/A		Company:
Tankers Onsite:	NON		

Name of Engineer: **Simon Gresty**

Signature:

