

 FACTORY INSTALLATION SERVICES INSTALLATION AND SERVICING OF FACTORY PROCESS		DAF Service Record Report		Reporting Period Quarter 1 of 4	
Site Details: Southern Dairys, Cliff view farm, Camborne TR14 0HP				Date: 13th June 2023	
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Pre Service check					
Current Alarms		Floculation pH	Final pH	Final Effluent Quality	
Ref: Non to report		6.85	6.32	FTU: 10	
Ref: Non to report				Visual: very clear	
Pre Service Check Errors or Faults Found: Non found				Plant discharge compliant: Yes	
Comment's: Plant working very well since last service 12 week ago.					
DAF Drain down carried out Y/N		Yes	Condition/sedimentaion	Time period since last draindown?	
			Low sedimentation	1 week (plant oporator)	
Coagt: Line - NRV's - Injection point check:		OK	☒	Comments's	Slight lime build up
Acid: Line - NRV's - Injection point check:		OK	☒	Comments's	good condition
Caistic: Line -NRV's -Injection point check:		OK	☒	Comments's	good condition
Polymer: Line - NRV's Injection points check:		OK	☒	Comments's	some solids - cleared
Instrument check					
Inlet pH probe	Buffer 4	→	Buffer 10	calibration needed	Comment's - low slope
Readings	3.31		8.58	yes	
Floc pH probe	Buffer 4	→	Buffer 10	calibration needed	Comment's - high accuracy
Readings	4.11		10.1	no	
Final pH probe	Buffer 4	→	Buffer 10	calibration needed	Comment's - fast reacting
Readings	4.22		10.31	yes	
DAF Turbidity reading: FTU 10		Fresh water reading: FTU 0		Comments's	
Pumping station level sensor		Level	Signal	Echo	Comments's -(working well)
Readings:		66%	78%	100%	
Balance Tank level sensor		Level	Signal	Echo	Comments's - (working well)
Readings:		43%	69%	100%	
DAF Sludge Hopper level sensor		Level	Signal	Echo	Comments's - (working well)
Readings:		12%	77%	100%	
Acid Tank level sensor		Level	Signal	Echo	Comments's - (working well)
Readings:		79%	99%	100%	
Caustic Tank level sensor		Level	Signal	Echo	Comments's - (working well)
Readings:		31%	82%	88%	
Coagulant Tank level sensor		Level	Signal	Echo	Comments's - (transducer failure, new unit to be fitted next service)
Readings:		0%	0%	0%	
Inlet flow meter	Flow rate	Totalizer	Flow rate stable		Comments's (working well)
Readings:	22m3h	10449m3	Yes		
Final flow meter	Flow rate	Totalizer	Flow rate stable		Comments's (working well)
Readings:	22m3h	10442m3	Yes		
Whitewater flow meter	Flow rate	Totalizer	Flow rate stable		Comments's (working well)
Readings:	5m3h	15993m3	Yes		
Pumping station high level float		Tested	Servicable	Comments's	Some fat build up - (ok)
		Yes	Yes		
Screen high level float		Tested	Servicable	Comments's	Tested - (ok)
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Equipment Check

Whitewater pump A Readings	Max pressure 14bar	Max flow 20m3h	Flow @ 6 bar pressure 5m3h	Comment's - (working well)
Whitewater pump B Readings	Max pressure 13.5bar	Max flow 18m3h	Flow @ 6 bar pressure 4.5m3h	Comment's (slight drop in performance but ok)
Final Effluent Sampler Readings	Sampler test run? Yes	Sampler cleaned Yes	Comments's (working well om timed program)	
White water air injection Readings	Pump on flow rate 5L/min	Pump off flow rate 0L/min	Comment's - (working well)	
Compressor	Pressure 8bar	Tank drained Yes	Comments's (empty tank)	
Chemical safety shower	Test Run Yes	Servisable Yes		

Chemistry Check

Inlet pH 6.8pH	Optimal flocculation set point 6.5pH	Final pH 6.3pH
Coagulant dose rate 450ppm	Polymer dose rate 25mg/L	Flocculation time 40seconds
Chemistry comment's: A fast seperation achieved at an optimal pH range		

Motor and Drive information

Item	Hours run	Test run	Servicable Y/N	Comment's
Pumping station A	591	yes	yes	Impellor in good condition
Pumping station B	1021	yes	yes	Impellor in good condition
Screen Drive	28829	yes	yes	Speed set at lowest setting
BT Aerartor A	31004	yes	yes	max pressure 4.6bar
BT Aerartor B	30893	yes	yes	max pressure 4.4bar
Daf feed pump A	1934	yes	yes	running on original stator
Daf feed pump B	2722	yes	yes	stator replaces 24-08-2022
Coag pump	3845	yes	yes	blockage removed from vrv
Acid pump	923	yes	yes	servicable condition
Caustic pump	521	yes	yes	servicable condition
Booster pump	2001	yes	yes	servicable condition
WW pump A	249	yes	yes	pump end replaced 14-02-2021 (max14.2bar)
WW pump B	1991	yes	yes	max pressure 13.6bar
Scraper drive	3001	yes	yes	change tension is good
Sludge pump A	1288	yes	yes	servicable condition
Sludge pump B	1285	yes	yes	servicable condition
Compressor	978	yes	yes	tank drained (ok)

General Service Comments: The plant is running very well and producing quality effluent. Some odour coming from the balance tank so the aerator run times increased from (30mins on 60 mins off) to (60 mins on 60 mins off).
Inlet pH probe to be replaced next service vit.

