

DESCRIPTION:	12 Monthly Zone 1 Lubrication and Service	FREQUENCY:	12 Months
LOCATION:	Bundamba Sewerage Treatment Plant	STANDARD JOB No.:	LTS301

Tools & Equipment	
Spare Parts/Materials List	
Castrol LMX Grease	
Castrol White Oil 15 BP	
Castrol Hyspin AWH100	
Shell Gadus S2 V100 2	
Reference	
Installation, Operation and Maintenance Manual for Gorman-Rupp Super T Series	
Maintenance Group	
Aeration Tank 5	Anaerobic Tank 5
Aeration Tank 4	Plug Valve Pits
Aeration Tank 3	Knife Gate Pits
Anaerobic Tank 3	WAS Pump Station
Anaerobic Tank 4	
Procedural Steps	
Before isolating any equipment where possible observe in running condition. Check for correct operation.	
Aeration Tank 5	
Mixer A Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.	
Mixer B Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.	
Mixer A Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.	
Mixer B Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.	
Mixer A Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.	
Mixer B Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.	
Mixer Zone 4 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.	
Mixer Zone 8 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.	
Remove grease from penstock spindles and re-grease with LMX Grease.	

	Aeration Tank 4
	Mixer A Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer B Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer A Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer B Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer A Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer B Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer Zone 4 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer Zone 8 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Remove grease from penstock spindles and re-grease with LMX Grease.
	Aeration Tank 3
	Mixer A Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer B Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer A Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer B Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer A Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer B Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer Zone 4 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Mixer Zone 8 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.
	Remove grease from penstock spindles and re-grease with LMX Grease.

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Anaerobic Tank 3			
Mixer Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Mixer Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Mixer Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Remove grease from penstock spindles and re-grease with LMX Grease.			
Anaerobic Tank 4			
Mixer Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Mixer Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Mixer Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Remove grease from penstock spindles and re-grease with LMX Grease.			
Anaerobic Tank 5			
Mixer Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Mixer Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Mixer Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Assess condition of mixer via visual inspection only.			
Remove grease from penstock spindles and re-grease with LMX Grease.			
WAS Pump 1			
Check valves and pipe work for leaks.			
Check pumps for leaks, noise and/or vibration.			
Remove Back Plate Assembly and check condition of impeller and wear plate.			
Check gap between impeller and wear plate, adjust as required. Recommended clearance 0.25mm – 0.50mm.			
Check gap between impeller and seal plate, adjust as required. Recommended clearance 0.64mm – 1.02mm.			
Replace oil (Hyspin AWH100) checking for contaminates.			
Remove coupling guard and check condition on couplings and rubbers.			
Refer to referenced manual for guidance.			
Grease motor bearings with 10 shots of Shell Gadus S2 V100 2			
***** Ensure that the grease exit ports are opened during lubrication*****			

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WAS Pump 2
Check valves and pipe work for leaks.
Check pumps for leaks, noise and/or vibration.
Remove Back Plate Assembly and check condition of impeller and wear plate.
Check gap between impeller and wear plate, adjust as required. Recommended clearance 0.25mm – 0.50mm.
Check gap between impeller and seal plate, adjust as required. Recommended clearance 0.64mm – 1.02mm.
Replace oil (Hyspin AWH100) checking for contaminates.
Remove coupling guard and check condition on couplings and rubbers.
Refer to referenced manual for guidance.
Grease motor bearings with 10 shots of Shell Gadus S2 V100 2
***** Ensure that the grease exit ports are opened during lubrication*****
Main Plug Valve Pit
Access condition of valve from ground level. Check valve for rotation.
Plug Valve Pit No.1
Access condition of valve from ground level. Check valve for rotation.
Plug Valve Pit No.2
Access condition of valve from ground level. Check valve for rotation.
Knife Gate Valve Pit No.1
Access condition of valve from ground level. Check valve for rotation.
Knife Gate Valve Pit No.2
Access condition of valve from ground level. Check valve for rotation.
Knife Gate Valve Pit No.3
Access condition of valve from ground level. Check valve for rotation.