



DESCRIPTION:	ST034 Brush Aerators Inspection & Service	FREQUENCY:	
LOCATION:	ST034 Karana Downs STP	STANDARD JOB No.:	

Grease & Oils
Castrol Ultratak
Castrol Alpha SP220
Procedural Steps
Before isolating any equipment where possible observe in running condition. Check for correct operation.
Minor Service
Check Drive Coupling for alignment.
Check Drive Coupling for slippage on GMU shaft.
Check Drive Coupling for slippage on Aerator shaft.
Check Drive Coupling Assembly for wear and tear.
Check drive side bearing housing for overheating.
Check auto greasers' levels on Drive End of Aerator. Top up if required.

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Note:





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	ural Steps				
Before	sefore isolating any equipment where possible observe in running condition. Check for correct opera				
Review Notes and Scope before undertaking Intermediate Service.					
NOTES					
Aerator	s 1 & 2 are mounted on a single frame and located in aeration zone.				
Aerator	s 3 & 4 are mounted on a single frame and located in mixing zone.				
One set	of aerators to remain operational until ready for change over.				
	epairs or replacements can be undertaken under the intermediate service, however, request to be submitted the control of the c				
SCOPE					
	Remove mixing zone aerators 3 & 4.				
2.	Undertake intermediate service on mixing zone aerators 3 & 4.				
3.	Remove aeration zone aerators 1 & 2.				
4.	Mixing zone aerators 3 & 4 to be relocated to aeration zone and commission.				
5.	Undertake intermediate service on aeration zone aerators 1 & 2.				
6.	Aeration zone aerators 1 & 2 to be relocated to mixing zone and commission.				
INTERN	MEDIATE SERVICE				
Before i	solating any equipment, inspect for unusual noise, vibration, leaks.				
Remove	e aerators from bioreactor as per scope.				
Check o	condition of rubber flaps.				
	e paddle covers to check condition of paddles and shaft for wear & tear.				
Check of	condition of paddle covers for cracks or defects.				
	e all four bearing caps to inspect condition of bearings for wear & tear.				
	condition of couplings for wear & tear and alignment.				
	to-greases or replace if no longer functioning				
	e oil – both GMUs. Visually check condition of old oil. Check no water ingress.				
	remove breather and clean to ensure it is functioning correctly.				
	e test floats.				
	structural integrity of floats.				
Check s	structural integrity of aerator frame.				

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