

<b>DESCRIPTION:</b>	Zone 1. 12 Monthly Lubrication Maintenance	<b>FREQUENCY:</b>	12 Monthly
<b>LOCATION:</b>	ST22 Oxley Creek STP	<b>STD JOB No.:</b>	LTS054

<b>Grease and Oils required:</b>	<b>Zone 1 Maintenance Group</b>
Castrol EPL2 Grease	Bioreactor 5 and 6 Mixers
Castrol AP3 Grease	Final Settling Tanks 9 to 13
Castrol Perfecto T68	Final Settling Tank Scum Pumps
Castrol SP220 Oil	RAS Pump Stations
Castrol SP320 Oil	Flow Splitter
Approx. twenty three (23) litres per gearmotor	RAS Flowmeter Pit
Approx. six (6) litres per Scum Pump timing gear chamber	WAS Pump Station
Castrol White Oil 15BP:	Anarobic Tank Waste Water Drain Valve
1 litre per Scum pump intermediate chamber	Anarobic Tank Bypass Valve
	Scum Harvester 5&6
	Aeration Blowers 7 to 10
<b>Procedural Steps</b>	
<b>Before isolating any equipment, where possible observe in running condition. Check for correct operation.</b>	
<b>Bioreactor 5&amp;6 Mixers (12 off)</b>	
Inspect the submersible mixer for abnormal noise and/or vibration.	
Visually inspect the mixer lifting davit lifting wire for evidence of wear and/or damage	
Visually inspect the mixer lifting davit for evidence of wear, damage and/or corrosion.	
Securely attach the submersible mixer to the mixer lifting davit and raise the mixer from the aeration tank.	
Visually inspect the submersible mixer hoisting chain for evidence of wear and/or damage.	
Remove rag build up from rope and chain.	
Drain gearbox oil and replace with SP320 oil. Replace drain / filler plug "O" ring.	
<b>Scum Harvester 5 &amp; 6</b>	
Visually inspect the scum harvester chain tension. Should read 12 bar (175 psi)	
Apply EPL2 grease until the gauges read 175 psi.	
Apply (8) shots of AP3 to the paddle assembly drive shaft bearings.	
Scum Pump Gearbox- drain and refill with SP220	
Paddle Drive Gearbox - drain and refill with SP220	
<b>Aeration Blowers 7 to 10</b>	
Check condition of inlet filters on each Blower.	
<b>WAS Pump Station</b>	
Apply grease to knife gate valve spindles and operate a few turns to grease inside drive nut.	
Before applying new grease remove clean old grease from spindle.	

<b>DESCRIPTION:</b>	Zone 1. 12 Monthly Lubrication Maintenance	<b>FREQUENCY:</b>	12 Monthly
<b>LOCATION:</b>	ST22 Oxley Sewerage Treatment Plant	<b>STD JOB ID:</b>	LTS054

<b>Flow Splitter</b>
Apply grease to knife gate valve spindles and operate a few turns to grease inside drive nut.
Before applying new grease remove clean old grease from spindle.
<b>Final Settling Tanks 9 to 13</b>
Apply (8) shots of EPL2 grease to the centre slewing ring bearing grease nipple.
Apply (8) shots of AP3 to the centre pivot shafts grease nipples.
Clean out grease build up from drive/idler bearing housings.
Visually inspect the roller bearing and repack the housing with EPL2 grease.
Open the oil drain valve and drain the oil from the gear motor.
With the oil drained from the gear motor verify the correct operation of the gear motor oil level switch.
Replenish using SP220 gear oil. Approximately twenty three (23) litres per gear motor.
<b>Scum Pumps</b>
Scum pump intermediate/buffer chamber lube - drain and refill with White Oil 15BP
Scum pump gear chamber lube- drain and refill with SP220
Motor Gear unit lube - drain and refill with SP220
Remove coupling cover and inspect coupling for any obvious signs of possible failure
Measure the backlash between the spider and the hub - if more than 5 mm - replace the spider
Reset Pressurisable Buffer Fluid Tank.
<b>RAS Pump Station ( 1 per final tank)</b>
Apply grease to knife gate valve spindles and operate a few turns to grease inside drive nut.
Before applying new grease remove clean old grease from spindle.
Use AP3 grease. Grease nipple located in housing around drive nut.
<b>RAS Flow Meter Pit</b>
Apply grease to knife gate valve spindles and operate a few turns to grease inside drive nut.
Before applying new grease remove clean old grease from spindle.
<b>Anaerobic Tank Waste Water Drain Valve</b>
Apply grease to knife gate valve spindles and operate a few turns to grease inside drive nut.
Before applying new grease remove clean old grease from spindle.
Check with operations before opening or closing this valve.
<b>Anaerobic Tank Bypass Valve. (SN: 4162-26)</b>
Apply grease to knife gate valve spindles and operate a few turns to grease inside drive nut.
Before applying new grease remove clean old grease from spindle.
Check with operations before opening or closing this valve.