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|---------------------|---|--------------------------|-----------|
| <b>DESCRIPTION:</b> | 12 Monthly Zone 2 Lubrication and Service | <b>FREQUENCY:</b>        | 12 Months |
| <b>LOCATION:</b>    | Carole Park Sewerage Treatment Plant      | <b>STANDARD JOB No.:</b> | LTS319    |

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| <b>Tools &amp; Equipment</b>   |
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| <b>Spare Parts/Materials List</b>  |
| Shell Gadus S2 general purpose high pressure   |
| Shell Gadus S2 V100  |
| Castrol Alpha SP220  |
| Castrol Alpha SP320  |
| Castrol Alpha SP680  |
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| <b>Reference</b>   |
| Follow correct shut down procedures before working on any equipment.   |
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| <b>Maintenance Group</b>   |
| Inlet Works Grit Trap  |
| Flow Splitter Area Penstocks   |
| Inlet Works Screens Room   |
| Poly Dosing (3 pumps) (2 mixers)   |
| GDD and BFP  |
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| <b>Procedural Steps</b>  |
| <b>Before isolating any equipment, where possible observe in running condition. Check for correct operation.</b> |
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| <b>Inlet Works Grit Trap</b>   |
| Inspect Mixer motor and gearbox for noise, leaks and vibration.  |
| Check Mixer frame and mounts for defects.  |
| Change Mixer Gearbox with Castrol Alpha SP220 (1.6 litres) oil checking for contamination.                       |
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| <b>Flow Splitter Area Penstocks</b>  |
| Remove old grease on threaded sections and replace with new grease. Shell Gadus S2 general purpose               |
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|---|
| <b>Inlet Works Screens Room</b>   |
| Inspect Trommel gearbox and motor for noise, leaks and vibration  |
| Replace oil in Trommel Gearbox with Alpha SP320. K 100 unit takes 4.8 litres & Z 40 units takes 0.8 litres. |
| Grease Trommel support wheel. Shell Gadus S2 general purpose  |
| Check spray bar operation.  |
| Remove coupling cover and check condition of couplings and rubbers.   |
| Divert flow and isolate channel.  |
| <b>***Entry into channel will be required for below tasks***</b>  |
| Check chain drive housing for leaks, defects.   |
| Drain oil from drive chain housing.   |
| Remove drive chain cover and check condition of sprockets and chain.  |
| Check tension on drive chain, adjust if required.   |
| Replace cover and fill to oil level with Alpha SP220.   |
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| <b>Inlet Works Conveyor – Accessible from floor level</b>   |
| Inspect Rag Conveyor gearbox and motor for noise, leaks and vibration.                                      |
| Grease conveyor bearing. Shell Gadus S2 general purpose   |
| Check Conveyor trough for leaks and defects   |
| Inspect Conveyor wear liner.  |
| Inspect Conveyor screw for wear and tear.   |
| Replace oil in Rag Conveyor Gearbox with Alpha SP320.   |
| Remove coupling cover and check condition of coupling and rubbers   |
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| <b>Poly Dosing Pump 1</b>   |
| Inspect Poly Dosing pump for noise / vibration / leaks  |
| Replace oil with Alpha SP220  |
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| <b>Poly Dosing Pump 2</b>   |
| Inspect Poly Dosing pump for noise / vibration / leaks  |
| Replace oil with Alpha SP220  |
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| <b>Poly Transfer Pump 1</b>   |
| Inspect Poly Dosing pump for noise / vibration / leaks  |
| Replace oil with Alpha SP220  |
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|--|
| <b>Poly Mixer 1</b>  |
| Inspect Mixer for noise / vibration / leaks  |
| Replace oil with Alpha SP220   |
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| <b>Poly Mixer 2</b>  |
| Inspect Mixer for noise / vibration / leaks  |
| Replace oil with Alpha SP220   |
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| <b>Gravity Drainage Deck (GDD)</b>   |
| Check all bearings for noise / vibration   |
| Check rollers for wear and tear  |
| Check Drive Gearmotor for noise / vibration / leaks.   |
| Inspect Variator belt for cracking and wear.   |
| Replace Drive Gearmotor oil with Alpha SP220 checking for contamination.                                 |
| Check sealing strips for wear and ensure they are clean.   |
| Check belts for cracks, signs of folding and/or holes.   |
| Check grease levels in auto lubes. Top up as required with grease available on site. Shell Gadus S2 V100 |
| Check Flocculator Gearmotor for noise / vibration / leaks.   |
| Replace Flocculator oil with Alpha SP680 checking for contamination.                                     |
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| <b>Belt Filter Press (BFP)</b>   |
| Check All BFP bearings for noise / vibration.  |
| Check rollers for wear and tear  |
| Check BFP drive Gearmotor for noise / vibration / leaks  |
| Check BFP belts for cracks, signs of folding and/or holes.   |
| Inspect BFP Variator belt for cracking and wear.   |
| Replace Drive Gearmotor oil with Alpha SP220 checking for contamination.                                 |
| Check grease levels in auto lubes. Top up as required with grease available on site. Shell Gadus S2 V100 |
| Check Flocculator Gearmotor for noise / vibration / leaks.   |
| Replace Flocculator oil with Alpha SP680 checking for contamination.                                     |
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