

|                     |                                      |                          |           |
|---------------------|--------------------------------------|--------------------------|-----------|
| <b>DESCRIPTION:</b> | Major Zone 2 Lubrication and Service | <b>FREQUENCY:</b>        | 12 Months |
| <b>LOCATION:</b>    | Beaudesert Sewerage Treatment Plant  | <b>STANDARD JOB No.:</b> | LTS706    |

|  |
|--|
| <b>Tools &amp; Equipment</b>   |
| Mobile Crane (Franna)  |
| <b>Spare Parts/Materials List</b>  |
| Castrol White Oil 15 BP  |
| Castrol Ultra Tak  |
| Castrol Alpha SP220  |
| Castrol AWH-M 68 Hydraulic Oil   |
| <b>Reference</b>   |
| Follow correct shut down procedures before working on any equipment.   |
| <b>Maintenance Group</b>   |
| Contact Tank and Outfall   |
| Supernatant Pump Station   |
| Sludge Transfer Screw Pump   |
| Supernatant Return Pump  |
| Sludge Transfer Macerator  |
| Centrifuge   |
| <b>Procedural Steps</b>  |
| <b>Before isolating any equipment, where possible observe in running condition. Check for correct operation.</b>   |
| <b>The tasks below incorporate the 1 Month Greasing schedule so work should commence on or as close as possible to Start Date to maintain correct frequency.</b> |
| <b>Contact Tank and Outfall</b>  |
| <b>Effluent Reuse Submersible Pump 1 – Hire of mobile crane required (Franna)</b>  |
| Check while running for noise, vibration and signs for leaks at sealing point.   |
| Check top guide rail bracket is secure.  |
| Remove pump.   |
| Check pump lifting bracket for corrosion and/or defects.   |
| Remove element from volute and check impeller condition.   |
| Check for signs of mechanical seal leakage and internal condition of volute.   |
| Replace oil with White Oil checking for contaminants.  |
| Replace pump checking for good seal.   |
| Check ease of operation of isolation valve.  |
| Undertake internal inspection of non-return valve checking for wear and correct operation.   |

|                     |                                      |                          |           |
|---------------------|--------------------------------------|--------------------------|-----------|
| <b>DESCRIPTION:</b> | Major Zone 2 Lubrication and Service | <b>FREQUENCY:</b>        | 12 Months |
| <b>LOCATION:</b>    | Beaudesert Sewerage Treatment Plant  | <b>STANDARD JOB No.:</b> | LTS706    |

|  |  |
|--|--|
|  | <b>Effluent Reuse Submersible Pump 2 – Hire of mobile crane required (Franna)</b>          |
|  | Check while running for noise, vibration and signs for leaks at sealing point.             |
|  | Check top guide rail bracket is secure.  |
|  | Remove pump.   |
|  | Check pump lifting bracket for corrosion and/or defects.                                   |
|  | Remove element from volute and check impeller condition.                                   |
|  | Check for signs of mechanical seal leakage and internal condition of volute.               |
|  | Replace oil with White Oil checking for contaminants.                                      |
|  | Replace pump checking for good seal.   |
|  | Check ease of operation of isolation valve.  |
|  | Undertake internal inspection of non-return valve checking for wear and correct operation. |
|  |  |
|  |  |
|  | <b>Supernatant Pump Station</b>  |
|  | Check while running for noise, vibration and leaks at sealing point.                       |
|  | Check top guide rail bracket is secure.  |
|  | Remove pump.   |
|  | Check lifting chain, shackles, eye bolts and guide rail for corrosion and/or defects.      |
|  | Remove element from volute and check impeller condition.                                   |
|  | Check for signs of mechanical seal leakage and internal condition of volute.               |
|  | Replace oil with White Oil checking for contaminants.                                      |
|  | Replace pump checking for good seal.   |
|  | Check ease of operation of isolation valve.  |
|  | Undertake internal inspection of non-return valve checking for wear and correct operation. |
|  |  |
|  |  |
|  | <b>Sludge Recirculation Pump – Hire of mobile crane required (Franna)</b>                  |
|  | Check while running for noise, vibration and leaks.  |
|  | Remove element from volute and check impeller condition.                                   |
|  | Check for signs of mechanical seal leakage and internal condition of volute.               |
|  | Replace oil with White Oil checking for contaminants.                                      |
|  | Check ease of operation of isolation valve.  |
|  | Undertake internal inspection of non-return valve checking for wear and correct operation. |
|  |  |
|  |  |
|  | <b>Sludge Transfer Screw Pump</b>  |
|  | Check pump for leaks,  |
|  | If running at the time also check for abnormal noise and/or vibration.                     |
|  |  |
|  |  |

|                     |                                      |                          |           |
|---------------------|--------------------------------------|--------------------------|-----------|
| <b>DESCRIPTION:</b> | Major Zone 2 Lubrication and Service | <b>FREQUENCY:</b>        | 12 Months |
| <b>LOCATION:</b>    | Beaundesert Sewerage Treatment Plant | <b>STANDARD JOB No.:</b> | LTS706    |

|  |  |
|--|--|
|  | <b>Sludge Transfer Muncher</b>   |
|  | Check Muncher for leaks, noise and vibration.  |
|  | Drain and change gearbox oil with SP220.   |
|  |  |
|  |  |
|  | <b>Centrifuge</b>  |
|  | Check hydraulic pack, hoses and fittings for leaks and/or defects  |
|  | Inspect V-belts condition.   |
|  | Check V-belt tension, adjust as required.  |
|  | Apply 30 shots of Castrol Ultra Tak to each main bearing.  |
|  | **The grease should be pumped into the housing and expelled through the excess grease outlet. Grease nipples are accessible without removing covers and lubrication can be performed during machine operation. |
|  | If centrifuge is operating check for abnormal noise and/or vibration.  |
|  | Check fasteners.   |
|  |  |
|  |  |
|  | <b>Hydraulic Pack</b>  |
|  | Replace oil with AWH-M 68 Hydraulic Oil.   |
|  | Replace oil filter element. Stauff Element Part No. – SE-030G10B/4 available from Cooper Fluid Systems   |
|  |  |
|  |  |