

DESCRIPTION:	Major Zone 1 Lubrication Maintenance	FREQUENCY:	12 Months
LOCATION:	Kilcoy Sewerage Treatment Plant	STANDARD JOB No.:	LTS907

	Tools & Equipment
	Spare Parts/Materials List
	Castrol Hyspin AWH100
	Castrol Whitmor WOM 14 or equivalent
	Castrol Alpha SP220
	Reference
	Follow correct shut down procedures before working on any equipment.
	Maintenance Group
	Septic Receival Area
	Digested Sludge Transfer Pump
	Hedley Park Pump
	Inlet Works Screen Compactor
	Primary Settling Tank
	Digester Mixer
	Trickle Filter
	Humus (RAS) Pump Station
	Scum Pump Station
	Secondary Settling Tank
	Race Course Irrigation Pump
	Service Water Pump
	Procedural Steps
	Before isolating any equipment, where possible observe in running condition. Check for correct operation.

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	Septage Receival Pump Station
	Remove Back Plate Assembly and check impeller wear and backing plate wear.
	Change oil in pump element with Hyspin AWH100.
	Refit Back Plate Assembly with minimal clearance between impeller and backing plate.
	Remove coupling guard and check alignment, couplings and rubbers.
	Check operation of isolation valves.
	Carry out internal inspection of non-return valve.
	Check all bolts. Tighten as necessary.
	Digested Sludge Transfer Pump
	Check pump for noise, vibration and/or leaks.
	Remove coupling cover and check alignment and for worn parts.
	Check pressure setting (13 PSI) on pump. Confer with Plant Operator if setting is different.
	Carry out pump gearbox oil change. Castrol Alpha SP 220
	Carry out reduction gearbox oil change. Castrol Alpha SP 220
	Set pressure setting (13 PSI) on pump. Confer with Plant Operator in case setting has changed.
	Hedley Park Pump
	Organise with Operator to isolate SP394 Hedley Park Pump Station
	Check pump for noise and vibration
	Visual check on volute to footing sealing point for leaks.
	Remove pump.
	Check condition of lifting chain, shackles, guide rails and bracket.
	Separate pump element from volute and check condition of impeller, wear rings and volute.
	Replace oil checking for contamination. Castrol Whitemor WOM 14
	Inlet Works Screen Compactor
	Check for abnormal noise and/or vibration.
	Remove covers to check wear and/or defects on Screen Basket, Screw, Brushes and SS Liner Bars (wear strips)
	Replace oil in Gearmotor. Castrol Alpha SP220

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	Primary Settling Tank
	Check Drive gearbox unit for leaks / noise / vibration.
	Check Scum scraper arm for defects and support wheel for wear.
	Replace oil bridge drive gearboxes. Castrol Alpha SP220
	Check condition of coupling and rubbers.
	Digester Mixer
	Check Mixer for vibration and condition of davit hoist and winch
	Remove Mixer for external visual inspection
	Replace oil
	Trickle Filter
	Check centre bearing for noise and freedom of movement.
	Grease centre column bearing.
	Inspect centre column and arms for wear and corrosion.
	Check turnbuckles for corrosion. Tension if required
	Inspect arm support rods and mounting points for wear & corrosion.
	Humus (RAS) Pump Station
	Check pump for noise and vibration
	Visual check on volute to footing sealing point for leaks.
	Remove pump.
	Check condition of lifting chain, shackles, guide rails and bracket.
	Separate pump element from volute and check condition of impeller, wear rings and volute.
	Replace oil checking for contamination. Castrol Whitemor WOM 14
	Carry out internal inspection of non-return valve.
	Scum Pump Station
	Check pump for noise and vibration
	Visual check on volute to footing sealing point for leaks.
	Remove pump.
	Check condition of lifting chain, shackles, guide rails and bracket.
	Separate pump element from volute and check condition of impeller, wear rings and volute.
	Replace oil checking for contamination. Castrol Whitemor WOM 14

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