

DESCRIPTION:	Major Lubrication and Service	FREQUENCY:	12 Months
LOCATION:	Forest Hill Sewerage Treatment Plant	STANDARD JOB No.:	LTS511

Spare F	Parts/Materials List
Schaeff	er's #221 Moly Ultra EP grease or equivalent
	er's 209A ISO 220 oil or equivalent
Lubrima	tic/Witco Corporation N11402 marine corrosion control grease or equivalent
Referer	nce
Follow	correct shut down procedures before working on any equipment.
O & M Manual Submittal Package 5HP Floating Brush Aerator – Forest Hill STP Aerator	
O & M I	Manual Class I Tornado Aspirating Aerator
Mainte	nance Group
	Aerator
	Hypochlorite Dosing Pump
	ural Steps isolating any equipment, where possible observe in running condition. Check for correct opera
Before	•
Before	isolating any equipment, where possible observe in running condition. Check for correct opera
Before 2 differ	isolating any equipment, where possible observe in running condition. Check for correct opera
Before 2 differ	isolating any equipment, where possible observe in running condition. Check for correct opera
Before 2 differ 5HP I	isolating any equipment, where possible observe in running condition. Check for correct operation and types of aerators are utilised on site. Only 1 type may be operational at any given time. Floating Brush Aerator
Before 2 differ 5HP I Fafnir S Apply 8	isolating any equipment, where possible observe in running condition. Check for correct operation and types of aerators are utilised on site. Only 1 type may be operational at any given time. Floating Brush Aerator tainless Steel, Enclosed Tail-Bearing
2 differ 5HP I Fafnir S Apply 8 enclose	isolating any equipment, where possible observe in running condition. Check for correct operation and types of aerators are utilised on site. Only 1 type may be operational at any given time. Floating Brush Aerator tainless Steel, Enclosed Tail-Bearing to 9 shots of Schaeffer's #221 Moly Ultra EP grease into the grease nipple located on the outside cover of
2 differ 5HP I Fafnir S Apply 8 enclosed Visually	isolating any equipment, where possible observe in running condition. Check for correct operation and types of aerators are utilised on site. Only 1 type may be operational at any given time. Floating Brush Aerator tainless Steel, Enclosed Tail-Bearing to 9 shots of Schaeffer's #221 Moly Ultra EP grease into the grease nipple located on the outside cover of a Tail- Bearing. Visually inspect the bearing to insure the shaft is aligned in the centre of the bearing.
2 differ 5HP I Fafnir S Apply 8 enclosed Visually Dodge	isolating any equipment, where possible observe in running condition. Check for correct operation and the control of the contr

Doc Id:FOR851Active Date:01/07/2017Revision: 2OwnerMatthew DellawayPrinted:Page 1 of 3

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	Drive End Bearing
	Apply grease to the Dodge Piloted Flange Bearing. Slowly pump grease until it starts coming out of the bearing.
	Visually inspect the bearing to insure the shaft is aligned in the centre of the bearing.
	, , , , , , , , , , , , , , , , , , , ,
	Drive Shaft Grease Seal Plates
	Slowly pump 2 to 3 shots of grease into the seal cavity. Visually check for any debris around the seals. Any buildup of
	solids around the seal, clear any debris.
	Paraflex Coupler
,	Visually inspects for any element misalignment or wear of the paraflex coupling element.
,	Visually inspect floats, mooring arms, and remove any debris that may be wrapped around the drive and tail shaft.
	Class I Tornado Aspirating Aerator
	Lubricate Aerator
	Lubricate aerator grease fittings with two shots of Lubrimatic/Witco Corporation N11402 marine corrosion control
	grease
	Inspect Coupling
	Check for wear or presence of rubber dust at the coupling area.
	Inspect Propeller
	Check for nicks or pits on the propeller. With the propeller firmly in hand, check for both end play and side play.
	Inspect Seals
	Rotate propeller by hand. Propeller should rotate freely. Remove the propeller and cone, then visually inspect
	the outer seal. There should not be a gap between the seal and shaft. Pull on shaft to check for end play.
	There should not be noticeable end play. An aerator with end play, a gap between the seals and shaft or shaft
	rotation that is loose and grinding.

Doc Id:FOR851Active Date:01/07/2017Revision: 2OwnerMatthew DellawayPrinted:Page 2 of 3

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Sodium Hypochlorite Dosing Pump
Check pump/s for noise, leaks and vibration.
Check non-return valves for leaks and defects, includes discharge point if fitted.
Check pipe work for leaks and defects.
Check condition of diaphragm and clean.
Remove non-return valves and clean, includes discharge point if fitted.
Flush pipe work and pump with clean water.
If spear installed at dosing point, remove and clean.

Doc Id:FOR851Active Date:01/07/2017Revision: 2OwnerMatthew DellawayPrinted:Page 3 of 3

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