DESCRIPTION:	Mechanical – Hydro Dyne Great White Band Screen – Inspection and Service	**FREQUENCY:**	
LOCATION:		**STANDARD JOB No.:**	

	SCOPE
	Complete inspection and service of Hydro Dyne Great White band screen.
	REQUIREMENTS
	Minor repairs and/or additional replacements other than already documented can be undertaken in the Overhaul, however, request to be submitted to Urban Utilities for approval before proceeding.
	*Equivalents can be used but must be documented for future use. This is to avoid the use of multiple lubricants in application.
	BASIC SERVICE
	Before isolating, check for unusual noise, vibration, leaks.
	Apply grease to grease nipples (3 off) – use manufacturer recommended or equivalent.* One shot of grease (2-3g) each.
	Note: 2 x greasing points on drive end and 1 x greasing point on non-drive end flange bearing assembly
	Visually inspect condition of grid and ensure slots/holes are clear.
	Clean out wash nozzles.
	MINOR SERVICE
	Before isolating, check for unusual noise, vibration, leaks.
	Apply grease to grease nipples (3 off) – use manufacturer recommended or equivalent.* One shot of grease (2-3g) each.
	Note: 2 x greasing points on drive end and 1 x greasing point on non-drive end flange bearing assembly
	Clean out wash nozzles.
	Check wash system operates correctly.
	Visually inspect grid belt and sprocket for damage or wear & tear.
	Visually inspect screen elements and panels for damage.
	Note a damaged element or panel may allow larger solids than intended to pass through the screen. Raise a request for corrective maintenance activity if repair or replacement is required
	Visually inspect for signs of leaks at drive shaft seal. Raise a request for corrective maintenance activity if further inspection or replacement of shaft seal is required.

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	INTERMEDIATE SERVICE
	Before isolating, check for unusual noise, vibration, leaks. Pay attention to GMU, flange bearing assembly (drive end and non-drive end).
	Apply grease to grease nipples (3 off) – use manufacturer recommended or equivalent.* One shot of grease (2-3g) each.
	Clean out wash nozzles.
	Check wash system operates correctly.
	Inspect grid belt and sprocket for damage or wear & tear.
	Inspect screen elements and panels for damage.
	***Note a damaged element or panel may allow larger solids than intended to pass through the screen. Raise a request for corrective maintenance activity if repair or replacement is required*
	Check for signs of leaks at shaft seal. Raise a request for corrective maintenance activity if further inspection or replacement of shaft seal is required.
	Visually inspect flange bearing assembly (non-drive end) for signs of wear or damage
	Visually inspect bearing assembly (drive end) for signs of wear or damage. ***Note bearing can be viewed through drive flange assembly opening near greasing point – light source will be required (torch)***
	Check oil level – gear motor unit and gearbox. Visually check quality of oil for contamination, water, metal filings etc.
	Replace any oil lost during visual check.
	Clean breather plug – gear motor unit and gearbox.
	MAJOR SERVICE
	Before isolating, check for unusual noise, vibration, leaks. Pay attention to GMU, flange bearing assembly (drive end and non-drive end).
	Apply grease to grease nipples (3 off) – use manufacturer recommended or equivalent.*One shot of grease (2-3g) each.
	Clean out wash nozzles.
	Check wash system operates correctly.
	Inspect grid belt and sprocket for damage or wear & tear.
	Inspect screen elements and panels for damage.
	Note a damaged element or panel may allow larger solids than intended to pass through the screen. Raise a request for corrective maintenance activity if repair or replacement is required
	Check for signs of leaks at shaft seal. Raise a request for corrective maintenance activity if further inspection or replacement of shaft seal is required
	Visually inspect flange bearing assembly (non-drive end) for signs of wear or damage
	Visually inspect bearing assembly (drive end) for signs of wear or damage. ***Note bearing can be viewed through drive flange assembly opening near greasing point – light source will be required (torch)***
	Drain and replace oil – gear motor unit and gearbox. Visually inspect old oil for contamination, water, metal filings etc. Use manufacturer recommended or equivalent.*
	Clean breather plug – gear motor unit and gearbox.

DESCRIPTION:	Mechanical – Hydro Dyne Great White Band Screen – Inspection and Service	**FREQUENCY:**	
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	OVERHAUL
	Before isolating, check for unusual noise, vibration, leaks. Pay attention to GMU, flange bearing assembly (drive end and non-drive end).
	Check for signs of leaks at shaft seals.
	Inspect grid belt (perforated screen) and sprocket for damage or wear & tear.
	The screen grid should be thoroughly inspected for wear, damage or corrosion:
	• Inspect screen elements and/or panels for damage.
	• Inspect each guide link and the interconnection with the sprocket to ensure proper engagement.
	• Inspect each pivot shaft (axle) for wear or damage.
	• Inspect all hook & straight links and spacers for wear or damage.
	• Inspect each grid panel for wear or damage.
	• Inspect condition of belt tracks. **Close attention should be placed on inspecting the bottom wear tracks. As the screen wears in, the screen's belt will stretch and may wear the bottom wear tracks.*
	• Inspect and adjust drive adjustment bolts in line with manufacturers instructions.
	Remove GMU to complete inspection of shaft seals and bearings.
	Check for any play in GMU output shaft.
	Inspect condition of drive shaft seals for uneven wear or damage.
	Inspect bearings on drive end for signs of uneven wear or damage.
	Inspect flange bearing assembly (non-drive end) for signs of uneven wear or damage.
	Replace all wash water nozzles.
	Confirm correct operation of wash water system.
	Apply grease to grease nipples (3 off) – use manufacturer recommended or equivalent. One shot of grease (2-3g) each.
	Drain and replace oil – gear motor unit and gearbox. Visually inspect old oil for contamination, water, metal filings etc. Use manufacturer recommended or equivalent.
	Clean breather plug – gear motor unit and gearbox.