

LS # 4

Roth Professional Solutions

**LIFT STATION CONDITION ASSESSMENT FORM**Assessment Date: **25 April 2023**Location: **899 Nelson Rd, Mosinee, WI** Municipality: **Village of Kronenwetter** LS Type: **Duplex Submersible**Engineer: **Roth Professional Solutions** Technical & Equipment Assistance: **B&M Technical Services**House Keeping: ☒ Good ☐ N/A ☐ Poor Lighting ☐ Tripping Hazards Present ☐ No Fall Protection ☐ Exposure to Raw Wastewater in Dry Well  
☐ Sump Pump Inoperable ☐ Electric Space Heater Inoperable ☐ Potential for Shock or Electrocution ☐ Other

Health and Safety Issues:

Other Observations:

Asset Class	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Field Observations/Comments
<b>Site Improvement (SIM)</b>					
* Access Driveway	<input checked="" type="checkbox"/>				
* Parking	<input checked="" type="checkbox"/>				
* Gate and Fencing	<input type="checkbox"/>				
* Site Drainage	<input checked="" type="checkbox"/>				
* Grounding System	<input checked="" type="checkbox"/>				Grounding Rods
* Site Lighting	<input type="checkbox"/>				
* Site Alarm Horn and Strobe Lighting	<input checked="" type="checkbox"/>				

General Site Electrical Observations

Access Driveway Details: ☐ Gravel or aggregate basecourse only ☐ Concrete Pavement ☒ Bituminous Pavement

Parking Details: ☐ None ☐ Gravel ☒ Paved

Fence Details: ☐ Chain Link ☐ Other Fencing Height (ft): Fencing Length (ft):

Gate Type: ☐ Single ☐ Double

Traffic: ☐ Other ☐ Site too Close to Traffic **Okay**

Grounding System Details : ☒ Present ☐ Grounding Rings ☒ Grounding Rods

If applicable, approximate parking area:

If applicable, approximate site area:

Other Notes:

**No ISO Valve due to Clog/Removal; Need pump tags & Manuals in Panel**

**Hinge Repair need in w/Well Hatch; Painted Cabinet-OK**

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<b>Structure and Wetwell (PST)</b>							
* <b>Building</b>	N/A	<input type="checkbox"/>					
Building Structures: <input type="checkbox"/> None <input type="checkbox"/> Concrete Walls <input type="checkbox"/> Concrete Floor <input type="checkbox"/> Doors      Total Floor Area:      Plan Floor Area:							
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Roof Degraded <input type="checkbox"/> Doors and Security Failing <input type="checkbox"/> Needs Paint <input type="checkbox"/> Cracks on the Wall <input type="checkbox"/> Cracks on the Floor <input type="checkbox"/> Other							
* <b>Odor Control</b>		<input checked="" type="checkbox"/>					
Odor Details: <input checked="" type="checkbox"/> Vent Pipe <input type="checkbox"/> Other <input type="checkbox"/> Details							
Field Observations: <input checked="" type="checkbox"/> Operational and in use <input type="checkbox"/> On site, but not required <input type="checkbox"/> Does not operate, needs repair <input type="checkbox"/> Other							
* <b>Crane/Hoist</b>		<input type="checkbox"/>					Portable / Off site
Crane Details:      Manufacturer:      Model:      Serial Number:							
Field Observations: <input type="checkbox"/> Good operating condition <input type="checkbox"/> Does not operate, requires repair <input type="checkbox"/> Mounting Hardware intact <input type="checkbox"/> Other							
* <b>Bar Screen or Comminuter</b>	N/A	<input type="checkbox"/>					
System Description: <input type="checkbox"/> No Bar Screen <input type="checkbox"/> Manually Raked Bar Screen <input type="checkbox"/> Mechanically Raked Bar Screen <input type="checkbox"/> Screen Bypass Provided?							
Mechanical Bar Screens: <input type="checkbox"/> Manufacturer:      Model:      Serial Number:      Power Requirements (hp):							
Odor Details: <input type="checkbox"/> N/A <input type="checkbox"/> Screens need frequent cleaning <input type="checkbox"/> Short response time <input type="checkbox"/> Odor fly nuisance <input type="checkbox"/> Screens not in use <input type="checkbox"/> Other							
* <b>Flow Meter</b>	N/A	<input type="checkbox"/>					
Type: <input type="checkbox"/> N/A      Type:      Manufacturer:      Model:      Serial Number:							
Flow Meter Field Observations: <input type="checkbox"/> Operational <input type="checkbox"/> Location <input type="checkbox"/> Other							
* <b>Wet Well</b>		<input checked="" type="checkbox"/>					
Walls: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> Fiberglass							
Slab/Cover: <input checked="" type="checkbox"/> Reinforced Concrete <input type="checkbox"/> Steel <input type="checkbox"/> Pumps, motors and electric panel are mounted on cover/slab directly over wet well							
Pump Control System: <input checked="" type="checkbox"/> Floats <input type="checkbox"/> Bubbler System <input type="checkbox"/> Ultrasonic & Transducer							
Measurement (PPM):							
Wet Well Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> PN/A <input type="checkbox"/> Hatch Damaged or Difficult to Open <input type="checkbox"/> Wet Structure Spalling or Cracked <input type="checkbox"/> Evidence of Concrete Corrosion <input type="checkbox"/> Wet Well Needs Cleaning - Solids/Grease <input type="checkbox"/> Other							
Hatch Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Fair: Minor Corrosion to Hatches, Hinges, or Latches <input type="checkbox"/> Poor: Corroded or Broken Hatches, Hinges, or Latches <input checked="" type="checkbox"/> Other <b>New Hinge on Access Hatch</b>							
Wet Well Ladder Observations: <input type="checkbox"/> Good <input type="checkbox"/> Fair: Surface Corrosion; Steps Intact and Solid; Minor Anchor Bolt Corrosion <input type="checkbox"/> Poor: Corroded or Broken Steps; Corroded or Broken Wall Anchors <input checked="" type="checkbox"/> Other <b>N/A</b>							
Wet Well Wall Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete Sealant Peeled or Cracked; Concrete Soft at Surface <input type="checkbox"/> Poor: Exposed/Missing Aggregate; Exposed/Missing Re-bar <input type="checkbox"/> Other							
Slab/Cover Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete or Aluminum Grate Slightly Corroded But Safe <input type="checkbox"/> Poor: Concrete Aggregate Missing/Exposed; Grate Corroded or Warped; Debris Over Platform <input type="checkbox"/> Other							

LS # <sup>4</sup> \_\_\_\_\_

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Influent Pipe Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Slight Corrosion; Pipe Intact <input type="checkbox"/> Poor: Severe Pipe Corrosion <input type="checkbox"/> Other							
Alarm Float Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Some Grease But Operating Properly <input type="checkbox"/> Poor: Covered in Grease or Broken <input type="checkbox"/> Other							
Pump Vent Line Observations: <input type="checkbox"/> Good <input type="checkbox"/> Fair: Slight Corrosion But Operates Properly; Needs Sealant Around Opening <input type="checkbox"/> Poor: Any One Vent Does Not Operate; Corroded or Broken Off at Wall <input checked="" type="checkbox"/> Other <b>N/A</b>							
* <b>Dry Well</b>		<input checked="" type="checkbox"/>					Valve Vault
Location Type: <input type="checkbox"/> None <input checked="" type="checkbox"/> Underground pump vault with access tube and ladder <input type="checkbox"/> Located below grade inside building Lighting: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cathodic Protection <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> None <input type="checkbox"/> Yes							
Access Tube and Ladder Field Observations: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Surface Corrosion; Steps Intact and Solid; Minor Anchor Bolt Corrosion <input type="checkbox"/> Poor: Corroded or Broken Steps; Corroded or Broken Wall Anchors <input type="checkbox"/> Other							
Underground Vault Observations: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Surface Corrosion <input type="checkbox"/> Poor: Corrosion <input type="checkbox"/> Other							
Building Floor Slabs: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete Sealant Peeled or Cracked; Concrete Soft at Surface <input type="checkbox"/> Poor: Exposed/Missing Aggregate; Exposed/Missing Re-bar <input type="checkbox"/> Other							
Staircases/Stairwells: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete Cracked; Concrete Soft at Surface <input type="checkbox"/> Poor: Exposed/Missing Aggregate; Exposed/Missing Re-bar <input type="checkbox"/> Other							
Building Walls: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete Sealant Peeled or Cracked; Concrete Soft at Surface <input type="checkbox"/> Poor: Exposed/Missing Aggregate; Exposed/Missing Re-bar <input type="checkbox"/> Other							
Sump Pump: <input type="checkbox"/> No <input type="checkbox"/> Yes Type _____ Model: _____ Power (hp): _____ TDH: _____ Serial: _____ Field Observations: <input type="checkbox"/> Not Operational <input type="checkbox"/> Poor Floor Drainage <input checked="" type="checkbox"/> Other <b>N/A</b>							
* <b>Cathodic Protection</b>	<b>N/A</b>	<input type="checkbox"/>					
Field Observations: <input type="checkbox"/> Disconnected <input type="checkbox"/> Other							
<b>HVAC (HVA)</b>							
* <b>Dry Well HVAC</b>	<b>N/A</b>	<input type="checkbox"/>					
Asset Size: _____ Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Old <input type="checkbox"/> Ventilation Inoperable <input type="checkbox"/> Makes Noise <input type="checkbox"/> Fans Vibrate <input type="checkbox"/> Ventilation Duct Work Corroded <input type="checkbox"/> Belts Loose or Torn <input type="checkbox"/> Louvers <input type="checkbox"/> Roof Vents <input type="checkbox"/> Other							
* <b>Wet Well HVAC</b>	<b>N/A</b>	<input type="checkbox"/>					
Asset Size: _____ Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Old <input type="checkbox"/> Ventilation Inoperable <input type="checkbox"/> Makes Noise <input type="checkbox"/> Fans Vibrate <input type="checkbox"/> Belts Loose or Torn <input type="checkbox"/> Ventilation Duct Work Corroded <input type="checkbox"/> Louvers <input type="checkbox"/> Roof Vents <input type="checkbox"/> Other							
Electrical Systems (ELE)							
* <b>Control Panel</b>		<input checked="" type="checkbox"/>					Need Pump Tags & Manuals in Panel
Asset Size (Volts) <b>208 VAC</b> <input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three Phase Manufacturer: <b>Hoffman</b> Model: <b>Type 3R</b> Serial Number: _____ Power Supply Manufacturer: _____ Model: _____ Type: <b>48"x36"x12" Painted</b>							

LS # 4

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Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Shop Drawings Available <input type="checkbox"/> UL Listed <input type="checkbox"/> Uncovered Holes <input type="checkbox"/> Surge Protection <input checked="" type="checkbox"/> Grounded <input type="checkbox"/> Wiring Labelled <input type="checkbox"/> Panel Labelled <input checked="" type="checkbox"/> Other <b>Pump Tags</b>							
* <b>Lighting Panel</b>	N/A	<input type="checkbox"/>					
Asset Size (Volts) Manufacturer: Model: Serial Number:							
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Bus and/or lugs corroded <input type="checkbox"/> Spare Spaces Available <input type="checkbox"/> Breakers Labelled <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* <b>Main Switch</b>		<input checked="" type="checkbox"/>					
Asset Size (Volts) <b>208 VAC</b> Manufacturer: <b>GE</b> Model: <b>TEB 1321</b> Serial Number:							
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* <b>Transfer Switch</b>		<input checked="" type="checkbox"/>					<b>Manual Portable Generator</b>
Asset Size (Volts) <b>Manual Portable Genera</b> Manufacturer: Model: Serial Number:							
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* <b>Motor Control Center</b>	N/A	<input type="checkbox"/>					
Asset Size (Volts) Manufacturer: Model: Serial Number:							
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Labelled <input checked="" type="checkbox"/> Other							
* <b>Junction Box</b>		<input checked="" type="checkbox"/>					
Asset Size (Volts) <b>48x36x12 Mounted</b> Manufacturer: <b>Hoffman</b> Model: <b>Type 3R</b> Serial Number:							
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* <b>Miscellaneous Panel 1</b>		<input checked="" type="checkbox"/>					<b>Replace Back-up Controllers; 1-2x a yr; 11 STA</b>
Asset Size Manufacturer: Model: Serial Number:							
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input checked="" type="checkbox"/> Other <b>Motor Starters replaced 2020</b>							

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<b>Generator (GEN)</b>												
* <b>Emergency Generator</b>		<input type="checkbox"/>										
* <b>Emer. Gen. Connector</b>		<input type="checkbox"/>										
Asset Size:	Manufacturer:	Model:	Serial:	Generator Type:								
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued <input type="checkbox"/> Checked <input type="checkbox"/> Engine Fluids Low <input type="checkbox"/> Poor Housekeeping <input type="checkbox"/> Poor Accessibility <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Diesel Containment <input type="checkbox"/> Other												
Instrumentation (INS)												
* <b>Auto Dialer</b>		<input checked="" type="checkbox"/>										
Manufacturer: <b>SensaPhone</b> Model: <b>800</b> Phone Number: <b>715-693-7721</b> Alarms: <input type="checkbox"/> High Level <input type="checkbox"/> Low Level <input type="checkbox"/> Generator Running <input type="checkbox"/> Power Fail <input type="checkbox"/> Other												
* <b>Float Controls</b>	<b>2 Float</b>	<input checked="" type="checkbox"/>	<b>Back up</b>									
* <b>Bubbler Controls</b>		<input type="checkbox"/>										
Manufacturer: Model:												
* <b>Submersible Level Controls</b>		<input checked="" type="checkbox"/>					<b>0-5 PSI</b>					
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Bubbler Compressor Failing <input type="checkbox"/> Air Lines Clogged / Full of Moisture <input type="checkbox"/> Drain Condensate Traps in Air System <input type="checkbox"/> Floats Tangled <input type="checkbox"/> Controls Obsolete <input type="checkbox"/> Other												
<b>SCADA (SCA)</b>												
Field Observations: <input type="checkbox"/> Good <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Obsolete <input type="checkbox"/> Other												
Variable Frequency Drive												
* <b>Control Panel - VFD</b>	<b>N/A</b>	<input type="checkbox"/>										
* <b>Harmonic Filter</b>	<b>N/A</b>	<input type="checkbox"/>										
* <b>Output Filter</b>	<b>N/A</b>	<input type="checkbox"/>										
Asset Size:	Manufacturer:	Model:	Observed RPM:									
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Makes Noise <input type="checkbox"/> Obsolete <input type="checkbox"/> Panel Corroded / Dusty / Leaky <input type="checkbox"/> Other												
<b>Motors (MTR)</b>												
* <b>Motor 1</b>		<input checked="" type="checkbox"/>										
Asset Size (HP) <b>10</b> Manufacturer: <b>Shinmaywa Pumps</b> Model: <b>4CNX</b> Serial Number:												
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Makes Noise <input type="checkbox"/> Vibrates <input type="checkbox"/> Shaft Bearing Noise <input type="checkbox"/> Opposite End Bearing Noise <input type="checkbox"/> Overheating <input type="checkbox"/> Needs Lubrication <input type="checkbox"/> Over Lubricated <input type="checkbox"/> Mount Failing <input type="checkbox"/> Leaking <input type="checkbox"/> Emergency Stop Button in Dry Well Inoperable <input type="checkbox"/> Other												
* <b>Motor 2</b>		<input checked="" type="checkbox"/>										
Asset Size (HP): <b>10</b> Manufacturer: <b>Shinmaywa</b> Model: <b>4CNX</b> Serial Number:												
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Makes Noise <input type="checkbox"/> Vibrates <input type="checkbox"/> Shaft Bearing Noise <input type="checkbox"/> Opposite End Bearing Noise <input type="checkbox"/> Overheating <input type="checkbox"/> Needs Lubrication <input type="checkbox"/> Over Lubricated <input type="checkbox"/> Mount Failing <input type="checkbox"/> Leaking <input type="checkbox"/> Emergency Stop Button in Dry Well Inoperable <input type="checkbox"/> Other												

LS # <sup>4</sup> \_\_\_\_\_

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<b>Hor/Vert Centrifugal Pumps</b>							
* Pump 1	N/A	<input type="checkbox"/>					
Manufacturer:		Model:		Serial Number:			
Discharge Size (in)		Suction Diameter (in)		Pump Size (GPM)		TDH	
Priming Pump <input type="checkbox"/>	Manufacturer:		Model:		Serial No.:		Size (hp):
Pressure Gauge <input type="checkbox"/>	Manufacturer:		Pressure Range:		Pressure Reading:		
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Seals Leaking <input type="checkbox"/> Vibrating <input type="checkbox"/> Shaft Deflection <input type="checkbox"/> Cavitating <input type="checkbox"/> Belts Loose <input type="checkbox"/> Bearing Noise <input type="checkbox"/> Mount Failing <input type="checkbox"/> Evidence of Pipe Strain <input type="checkbox"/> Other							
* Pump 2	N/A	<input type="checkbox"/>					
Discharge Size (in)		Suction Diameter (in)		Pump Size (GPM)		TDH	
Priming Pump <input type="checkbox"/>	Manufacturer:		Model:		Serial No.:		Size (hp):
Pressure Gauge <input type="checkbox"/>	Manufacturer:		Pressure Range:		Pressure Reading:		
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Seals Leaking <input type="checkbox"/> Vibrating <input type="checkbox"/> Shaft Deflection <input type="checkbox"/> Cavitating <input type="checkbox"/> Belts Loose <input type="checkbox"/> Bearing Noise <input type="checkbox"/> Mount Failing <input type="checkbox"/> Evidence of Pipe Strain <input type="checkbox"/> Other							
<b>Submersible Pumps (SUB)</b>							
* Pump 1		<input checked="" type="checkbox"/>					
Manufacturer: Shinmaywa		Model: 4CNX		Serial:			
Discharge Size (in) 4"		Suction Diameter (in)		Pump Size (GPM) 175		TDH 10 HP	
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Rail System Corroded <input type="checkbox"/> Does Not Seat Well <input type="checkbox"/> Cables Corroded or Failing <input checked="" type="checkbox"/> Other Seal Fail / Relay Addressed 2020							
* Pump 2		<input checked="" type="checkbox"/>					
Manufacturer: Shinmaywa		Model: 4CNX		Serial:			
Discharge Size (in) 4"		Suction Diameter (in)		Pump Size (GPM)		TDH	
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Rail System Corroded <input type="checkbox"/> Does Not Seat Well <input type="checkbox"/> Cables Corroded or Failing <input checked="" type="checkbox"/> Other Seal Fail / Relay Addressed 2020							
<b>Check Valves</b>							
* Pump 1		<input checked="" type="checkbox"/>					
Size (in): 4"		Manufacturer:		Model:		Serial No:	
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Valve Operator Stuck <input type="checkbox"/> Valve Seat Leaking <input type="checkbox"/> Flanges Leaking <input type="checkbox"/> Check Valve Not Seating <input type="checkbox"/> Check Valve Not Operating <input type="checkbox"/> Evidence of Pipe Strain <input type="checkbox"/> Other							
* Pump 2		<input checked="" type="checkbox"/>					
Size (in): 4"		Manufacturer:		Model:		Serial No:	
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Valve Operator Stuck <input type="checkbox"/> Valve Seat Leaking <input type="checkbox"/> Flanges Leaking <input type="checkbox"/> Other <input type="checkbox"/> Check Valve Not Seating <input type="checkbox"/> Check Valve Not Operating <input type="checkbox"/> Evidence of Pipe Strain							

LS # <sup>4</sup> \_\_\_\_\_

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<b>Piping and Valves Suction Isolation Valves</b>							
* Pump 1	N/A	<input type="checkbox"/>					
Size (in):	Manufacturer:	Model:	Serial No:				
Field Observations:	<input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Valve Operator Stuck <input type="checkbox"/> Valve Seat Leaking <input type="checkbox"/> Flanges Leaking	<input type="checkbox"/> Check Valve Not Seating <input type="checkbox"/> Check Valve Not Operating <input type="checkbox"/> Evidence of Pipe Strain	<input type="checkbox"/> Other				
* Pump 2	N/A	<input type="checkbox"/>					
Size (in):	Manufacturer:	Model:	Serial No:				
Field Observations:	<input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Valve Operator Stuck <input type="checkbox"/> Valve Seat Leaking <input type="checkbox"/> Flanges Leaking	<input type="checkbox"/> Check Valve Not Seating <input type="checkbox"/> Check Valve Not Operating <input type="checkbox"/> Evidence of Pipe Strain	<input type="checkbox"/> Other				
<b>Discharge Isolation Valves</b>							
* Pump 1		<input checked="" type="checkbox"/>					ISO Valve Removed Due to Clogging
Size (in):	Manufacturer:	Model:	Serial No:				
Field Observations:	<input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Valve Operator Stuck <input type="checkbox"/> Valve Seat Leaking <input type="checkbox"/> Flanges Leaking	<input type="checkbox"/> Check Valve Not Seating <input type="checkbox"/> Check Valve Not Operating <input type="checkbox"/> Evidence of Pipe Strain	<input type="checkbox"/> Other				
* Pump 2	N/A	<input type="checkbox"/>					
Size (in):	Manufacturer:	Model:	Serial No:				
Field Observations:	<input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Valve Operator Stuck <input type="checkbox"/> Valve Seat Leaking <input type="checkbox"/> Flanges Leaking	<input type="checkbox"/> Check Valve Not Seating <input type="checkbox"/> Check Valve Not Operating <input type="checkbox"/> Evidence of Pipe Strain	<input type="checkbox"/> Other				