

LS # 7

Roth Professional Solutions

LIFT STATION CONDITION ASSESSMENT FORMAssessment Date: **25 April 2023**Location: **2302 Old Hwy 51, Kronenwetter, 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: **Wastewater Process Timing / Hydrogen Sulfide Issues**

Asset Class	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Field Observations/Comments
Site Improvement (SIM)					
* 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"/>				
* Site Lighting	<input checked="" type="checkbox"/>				
* Site Alarm Horn and Strobe Lighting	<input checked="" type="checkbox"/>				
General Site Electrical Observations					
Access Driveway Details: <input checked="" type="checkbox"/> Gravel or aggregate basecourse only <input type="checkbox"/> Concrete Pavement <input type="checkbox"/> Bituminous Pavement					
Parking Details: <input type="checkbox"/> None <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Paved					
Fence Details: <input type="checkbox"/> Chain Link <input type="checkbox"/> Other Fencing Height (ft): Fencing Length (ft):					
Gate Type: <input type="checkbox"/> Single <input type="checkbox"/> Double					
Traffic: <input type="checkbox"/> Other <input type="checkbox"/> Site too Close to Traffic					
Grounding System Details : <input checked="" type="checkbox"/> Present <input type="checkbox"/> Grounding Rings <input type="checkbox"/> Grounding Rods					
If applicable, approximate parking area:					
If applicable, approximate site area:					
Other Notes:					
15 HP Shinmaywa Pumps, No Screen; Pumps Replaced 2023					
Some Moisture Corrosion Forming in Dry Valve Vault					

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Structure and Wetwell (PST)							
* Building		<input checked="" type="checkbox"/>					(2 Structures: LS & Generator Bldg)
Building Structures: <input type="checkbox"/> None <input checked="" type="checkbox"/> Concrete Walls <input type="checkbox"/> Concrete Floor <input type="checkbox"/> Doors Total Floor Area: Plan Floor Area: Field Observations: <input checked="" 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 checked="" type="checkbox"/> Other Hydrogen-Sulfide Corrosion Portection							
* Odor Control		<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							
* Crane/Hoist		<input checked="" 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							
* Bar Screen or Com minuter	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 repsonse time <input type="checkbox"/> Odor fly nuisance <input type="checkbox"/> Screens not in use <input type="checkbox"/> Other							
* Flow Meter		<input checked="" type="checkbox"/>					Altronex Control
Type: <input type="checkbox"/> N/A Type: MAG 5000 Manufacturer: Siemens Model: Sitrans Serial Number: N1M6150031 Flow Meter Field Observations: <input checked="" type="checkbox"/> Operational <input type="checkbox"/> Location <input type="checkbox"/> Other							
* Wet Well		<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): MPC 0-5 PSI 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 checked="" 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 type="checkbox"/> Other 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 type="checkbox"/> Other 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 checked="" type="checkbox"/> Other Corrosion Protection needs to be reapplied 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							

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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 type="checkbox"/> Other							
* Dry Well		<input checked="" type="checkbox"/>					Valve Vault
Location Type: <input type="checkbox"/> None <input type="checkbox"/> Underground pump vault with access tube and ladder <input checked="" type="checkbox"/> Located below grade inside Lift Station 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 type="checkbox"/> N/A <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							
Staircases/Stairwells: <input 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 type="checkbox"/> N/A <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							
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 type="checkbox"/> Other							
* Cathodic Protection	N/A	<input type="checkbox"/>					
Field Observations: <input type="checkbox"/> Disconnected <input type="checkbox"/> Other							
HVAC (HVA)							
* Dry Well HVAC	N/A	<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							
* Wet Well HVAC	N/A	<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)							
* Control Panel		<input checked="" type="checkbox"/>					
Asset Size (Volts) 208 VAC <input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three Phase Manufacturer: Hoffman Model: 48x36x12 Serial Number: 500224-K Power Supply Manufacturer: _____ Model: _____ Type: 3R							

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Asset Class	CMMS Code	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Utiliz. (%)	Field Observations/Comments
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 type="checkbox"/> Other							
* Lighting Panel	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							
* Main Switch		<input checked="" type="checkbox"/>					
Asset Size (Volts) 208 VAC Manufacturer: Hoffman Model: Type 3R Serial Number: 500224-K							
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 checked="" type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Transfer Switch		<input checked="" type="checkbox"/>					
Asset Size (Volts) Manufacturer: ONAN Model: OTB-3385605 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 checked="" type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Motor Control Center	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 type="checkbox"/> Other							
* Junction Box		<input checked="" type="checkbox"/>					15 HP
Asset Size (Volts) 208 VAC 30 Manufacturer: Hoffman Model: Type 3R Serial Number: 500224-K							
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 checked="" type="checkbox"/> Panel Grounded <input checked="" type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Miscellaneous Panel 1	N/A	<input type="checkbox"/>					
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 type="checkbox"/> Other							

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Asset Class	CMMS Code	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Utiliz. (%)	Field Observations/Comments
Generator (GEN)							
* Emergency Generator		<input checked="" type="checkbox"/>					Onan Cummings; A000048227
* Emer. Gen. Connector		<input type="checkbox"/>					
Asset Size: 65 KW Manufacturer: ONAN Model: FORD Serial: 15911-1-04-98 Generator Type:							
Field Observations: <input checked="" 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 checked="" type="checkbox"/> Panel Grounded <input checked="" type="checkbox"/> Panel Labelled <input type="checkbox"/> Diesel Containment <input type="checkbox"/> Other							
Instrumentation (INS)	SCADA		SD-4				Radio for Kronenwetter
* Auto Dialer		<input checked="" type="checkbox"/>	4710				Radio for RMSD
Manufacturer: Model: Phone Number:							
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							
* Float Controls	back up	<input type="checkbox"/>	2 float				
* Bubbler Controls	primary	<input type="checkbox"/>					0-5 PSI
Manufacturer: Mercoird Model:							
* Ultrasonic Controls		<input type="checkbox"/>					
Field Observations: <input 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							
SCADA (SCA)							
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Obsolete <input type="checkbox"/> Other 1400 Allen Bradley Telemetry SD4 Radio for Kronenwetter; 4710 Radio for RMMSD							
Variable Frequency Drive							
* Control Panel - VFD		<input type="checkbox"/>					
* Harmonic Filter		<input type="checkbox"/>					
* Output Filter		<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							
Motors (MTR)							
* Motor 1		<input checked="" type="checkbox"/>					
Asset Size (HP) 15 Manufacturer: Shinmaywa Model: Serial Number: 4CNXH411T2E2							
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							
* Motor 2		<input checked="" type="checkbox"/>					
Asset Size (HP): 15 Manufacturer: Shinmaywa Model: Serial Number: 11							
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							

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Asset Class	CMMS Code	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Utiliz. (%)	Field Observations/Comments
Hor/Vert Centrifugal Pumps							
* 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"/>					
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							
Submersible Pumps (SUB)							
* Pump 1		<input checked="" type="checkbox"/>					
Manufacturer: Shinmaywa		Model:		Serial: 11			
Discharge Size (in) 8"	Suction Diameter (in)	Pump Size (GPM) 550		TDH 15 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 type="checkbox"/> Other							
* Pump 2		<input checked="" type="checkbox"/>					
Manufacturer: Shinmaywa		Model:		Serial: 11			
Discharge Size (in) 8"	Suction Diameter (in)	Pump Size (GPM) 550		TDH 15 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 type="checkbox"/> Other							
Check Valves							
* Pump 1		<input checked="" type="checkbox"/>					
Size (in): 8"	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): 8"	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							

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Piping and Valves Suction Isolation Valves							
* 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						
Discharge Isolation Valves							
* Pump 1		<input checked="" type="checkbox"/>					
Size (in): 8	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 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						