

LS # 6

Roth Professional Solutions

**LIFT STATION CONDITION ASSESSMENT FORM**Assessment Date: **25 April 2023**Location: **2100 River Forest Ln** 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: **15 HP Barnes Ea / Add-A-Phase Power System (3 Phase Converter System)**

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"/>				
* 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 **N/A**

Traffic: ☐ Other ☐ Site too Close to Traffic

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

If applicable, approximate parking area:

If applicable, approximate site area:

Other Notes:

**Panel Labeling Not Current; 3" Influent FM, Turned Down, is Showing Corrosion**

**Pump 2 Replaced 2018; Pump 1 Original 1999**

**LIFT STATION CONDITION ASSESSMENT FORM**

Asset Class	CMMS Code	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Utiliz. (%)	Field Observations/Comments
<b>Structure and Wetwell (PST)</b>							
* <b>Building</b>		<input checked="" type="checkbox"/>					Duplex Submersible
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 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 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							
* <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 <b>2 Float High/Low w/ Transducer</b> Measurement (PPM): <b>0-5 PSI MPC 0-5 PSI</b> 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 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							

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Asset Class	CMMS Code	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Utiliz. (%)	Field Observations/Comments
Influent Pipe Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Slight Corrosion; Pipe Intact <input type="checkbox"/> Poor: Severe Pipe Corrosion <input checked="" type="checkbox"/> Other <b>3" Influent DI Low Pressure FM</b>							
Alarm Float Observations: <input 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							
* <b>Dry Well</b>		<input checked="" type="checkbox"/>					<b>Valve Vault Drain Clogged</b>
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 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 type="checkbox"/> Good <input checked="" type="checkbox"/> Fair: Surface Corrosion <input type="checkbox"/> Poor: Corrosion <input checked="" type="checkbox"/> Other <b>Piping</b>							
Building Floor Slabs: <input 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 checked="" type="checkbox"/> Other <b>Standing Water; No Drainage</b>							
Staircases/Stairwells: <input type="checkbox"/> N/A <input checked="" 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 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							
* <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"/>					<b>Max 30 HP</b>
Asset Size (Volts) <b>240/10In, 208/30 Out</b> <input checked="" type="checkbox"/> Single phase <input type="checkbox"/> Three Phase <b>Add-A-Phase Converter</b> Manufacturer: _____ Model: _____ Serial Number: _____ Power Supply Manufacturer: _____ Model: _____ Type: <b>ADDA PHASE UNIT RONK</b>							

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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							
* <b>Lighting Panel</b>		<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 3 Phase</b> Manufacturer: <b>Hoffman</b> Model: <b>96</b> 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>Phase Converter Inefficient</b>							
* <b>Transfer Switch</b>		<input checked="" type="checkbox"/>					<b>Manual</b>
Asset Size (Volts) <b>30 HP</b> Manufacturer: <b>SMEDE Breaker</b> 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>	<b>N/A</b>	<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							
* <b>Junction Box</b>		<input checked="" type="checkbox"/>					
Asset Size (Volts) <b>208 3 Phase</b> Manufacturer: <b>Hoffman</b> Model: <b>96</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 checked="" type="checkbox"/> Other <b>Phase Converter Inefficient</b>							
* <b>Miscellaneous Panel 1</b>	<b>N/A</b>	<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
<b>Generator (GEN)</b>							
* Emergency Generator		<input type="checkbox"/>					
* Emer. Gen. Connector		<input checked="" type="checkbox"/>					Portable Off-Site
Asset Size: <b>30 HP</b> Manufacturer: <b>SMEDE Breaker</b> Model:      Serial:      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 type="checkbox"/> Panel Labelled <input type="checkbox"/> Diesel Containment <input type="checkbox"/> Other							
Instrumentation (INS)							
* Auto Dialer		<input checked="" type="checkbox"/>					
Manufacturer: <b>Sensaphone</b> Model: <b>96</b> Phone Number:							
Alarms: <input checked="" type="checkbox"/> High Level <input checked="" type="checkbox"/> Low Level <input type="checkbox"/> Generator Running <input checked="" 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: <b>Mercoird</b> Model:							
* Ultrasonic Controls		<input type="checkbox"/>					
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 type="checkbox"/> N/A <input type="checkbox"/> Obsolete <input type="checkbox"/> Other							
Variable Frequency Drive							
* Control Panel - VFD	N/A	<input type="checkbox"/>					
* Harmonic Filter	N/A	<input type="checkbox"/>					
* Output Filter	N/A	<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>							
* Motor 1	N/A	<input type="checkbox"/>					
Asset Size (HP)      Manufacturer:      Model:      Serial Number:							
Field Observations: <input 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	N/A	<input type="checkbox"/>					
Asset Size (HP):      Manufacturer:      Model:      Serial Number:							
Field Observations: <input 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									
<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"/>														
Manufacturer:		Model:		Serial No.:												
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: Barnes		Model: 48.3 FIA		Serial:												
Discharge Size (in) 4"	Suction Diameter (in)	Pump Size (GPM) 155	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: Barnes		Model:		Serial:												
Discharge Size (in) 4"	Suction Diameter (in)	Pump Size (GPM) 155	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															
<b>Check Valves</b>																
* Pump 1		<input checked="" type="checkbox"/>														
Size (in): 4"	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		<input checked="" type="checkbox"/>														
Size (in): 4"	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															

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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"/>					
Size (in): 4"	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 checked="" type="checkbox"/> Other	Valve Vault Piping Corrosion					
* 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						