

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of

<i>Electronic</i> Application of Bluegrass	)	
Water Utility Operating Company, LLC	)	Case No. 2020-00290
for an Adjustment of Rates and Approval	)	
of Construction	)	

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**Supplement to Responses  
to Post-Hearing Data Requests**

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Applicant, Bluegrass Water Utility Operating Company, LLC, herewith supplements its Response to the Commission Staff's Post-Hearing Request for Information and its Response to Joint Intervenors' Post-Hearing Data Requests, which were filed in this case on May 31, 2021, with additional responsive material to PSC ph DR 01(c) and INT ph DR 13 and with the response to PSC ph DR 07 (which was omitted from the 5/31/21 Response to the Commission Staff's Post-Hearing Request for Information). The verifications contained in the 5/31/21 Responses also apply respectively to the responses filed herewith.

Respectfully submitted,

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Operating Company, LLC*

## Request

1. Refer to Bluegrass Water's responses to Commission Staff's Second Request for Information, Item 12. The original request asked Bluegrass Water to provide a spreadsheet, in Excel format with all formulas unprotected and all rows and columns fully accessible, with the information contained in attachment *BGUOC2020RateCaseRateBase\_(Sewer).xlsx* broken down by each sewer system. In its response Bluegrass -3- Case No. 2020-00290 Water provided a separate rate base spreadsheet for each sewer system but the total of all 19 Excel spreadsheets did not equal the amounts listed in *BGUOC2020RateCaseRateBase\_(Sewer).xlsx*.
    - a. Provide a single spreadsheet, in Excel format with all formulas, columns, and rows unprotected and fully accessible, listing the 13-month average rate base for each separate sewer system that totals to the 13-month average rate base contained in *BGUOC2020RateCase-RateBase\_(Sewer).xlsx*; Tab: FY Rate Base - Sewer B1.
    - b. Provide a single spreadsheet, in Excel format with all formulas, columns, and rows unprotected and fully accessible, listing the 13-month average rate base for each separate sewer system that totals to the 13-month average rate base contained in Excel Spreadsheet *BYupdate-RateBase(Sewer).xlsx*; Tab: FY Rate Base - Sewer B1.
    - c. Provide an explanation of why the amounts did not match in the documents originally provided.
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## Response

- a. Due to the process used to update rate base numbers at the end of the base period, the data source necessary to produce system level rate base specific numbers is no longer available.
- b. For the requested information, please see the separately provided Excel workbook with filename *PSCphDR01b.xlsx*.
- c. A data source was inadvertently omitted from the Utility Plant in Service totals for the system. This data source was CWIP balances that were on the books of Bluegrass Water as of 12/31/2020 but the assets were not yet placed into service.  
  
SUPPLEMENT: Additionally, an incomplete formula omitted several cells from the subtotal lines on the rate base worksheets.

### Request

7. State whether the Commission has granted other sewer utilities deviations from 807 KAR 5:071 Section 7(4), when requested.
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### Response

The Commission has granted sewer utilities deviations from the 807 KAR 5:071 § 7(4) requirement to “make inspections of all mechanical equipment on a daily basis.” For example:

- Case No. 2014-00277, Order entered December 16, 2014: The Commission found that Springcrest Sewer was not in compliance with the daily inspection requirement and granted a *temporary* deviation, until no later than December 15, 2015, to allow the utility to make *weekly* inspections of the system’s mechanical equipment while it took actions to bring its inspection schedule into compliance with the regulation.
- Case No. 2017-00246, Order entered February 1, 2018: The Commission granted in part a request by the McCreary County Water District (“MCWD”) for deviation from the daily requirement as to the over 1200 active grinder pump stations on its sewer system, allowing simplex and duplex grinder pump stations to be inspected *annually*. MCWD expressly stated that it inspected main lift stations and the sewage treatment facility on a daily basis and did not request a deviation to conduct less frequent inspections as to that equipment. 6/30/17 Application ¶¶ 13, 22.
- Case No. 2019-00069, *sua sponte* Order entered May 7, 2019: On its own motion, the Commission ordered that all sewer utilities were granted deviation from the daily inspection requirement for grinder pump stations located on or near a customer’s

property; that equipment is now to be inspected at least once every *five years*. In footnote 1 (p.1), the Commission gathered cases in which individual utilities had requested deviation from the daily-inspection requirement with respect to grinder pump stations. The 5/7/19 Order superseded any inspection period that had been ordered in response to a deviation request.

**Request**

13. Please provide an itemization of all work provided by Elasticity, LLC directly to Bluegrass Water during the base period and, if the work resulted in the creation or production of a tangible product (i.e. brochure, letter, etc.) or digital asset (i.e. a Facebook post), please provide a copy of same.

**Response**

The following table itemizes all work provided by Elasticity, LLC directly to Bluegrass Water during the base period (CY 2020):

Content Type	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020
Printed Materials			Updated Brochure			Letterhead
Misc. Work Product	1 Updated Website Copy	1 Brochure Copy				
Customer Emails	0	0	1	3	2	1
Facebook Posts	9	4	7	12	13	16
Twitter Posts	8	5	10	13	15	14
Videos						
Public Relations						
Website	2.5	3.5	2	2	4.5	4

Content Type	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
Printed Materials	Contractor Cards				Customer Envelopes	
Misc. Work Product	1 Video Shot List		1 Video Shot Spreadsheet	1 RFP	1 RFQ	1 Talking Points Set
Customer Emails	1	1	1	1	1	1
Facebook Posts	11	9	7	4	7	8
Twitter Posts	12	12	8	16	7	10
Videos	Raw video shoot		1 "Before" Video Reel			
Public Relations				2 Responses to Reporter	1 Media Training Feedback	
Website	1	1	0.5	0.5	0	0

Tangible products as a result of this work by Elasticity, LLC are provided separately as follows:

- Four (4) PDF files compiling the products by each calendar quarter with a filename beginning *INTph13attachment-Elasticity* and then indicating which quarter;
- An Excel workbook with filename *bluegrass video\_edits\_0928.xlsx*; and
- A video file, *Bluegrass Water UOC\_Before Reel.mp4*, of a size and format that cannot be filed electronically in the case; a copy of the file has been filed with the Commission and served on counsel for the other parties following the protocols for non-electronic filing cases or for materials that cannot be electronically file.

SUPPLEMENT: Bluegrass attaches hereto a series of stills taken from the video file, *Bluegrass Water UOC\_Before Reel.mp4*, showing the condition of the systems that it acquired before June 30, 2020. The following is an index with the PDF page number of each still, the time counter on the video file, and a description of what is depicted by title or facility and status:

PDF Page	Time Stamp	Title	Facility	Status
1	00:05	<b>CSWR</b>		
2	00:08	<b>Bluegrass Water Before CSWR Intervention</b>		
3	00:14	<b>Airview Wastewater</b>		
4	00:17		Clarifier Structure	Rusting structure, insecure structure
5	00:29		Aeration Chamber	Plant and rust growth
6	00:37		Aeration Tank and Bar Screen	Clogged and deteriorated bar screen
7	00:45		Aeration Tank	Trees growing from treatment facility
8	00:54		Lagoon	Overgrown lagoon
9	01:02		Clarifier and Catwalks	Rusted steel, debris, improper piping

PDF Page	Time Stamp	Title	Facility	Status
10	01:13	<b>Brocklyn Wastewater</b>		
11	01:19		Aeration Tanks	Deteriorating steel, nonfunctional flow meter
12	01:28		Lagoon	Deteriorating berm and erosion
13	01:34		Contact Chamber	Deteriorated structure and improper piping
14	01:43		Lagoon Berm	Structure deteriorating and leaking
15	01:51		Aeration Tanks	Rusted steel improper piping
16	02:00		Contact Chamber and Lagoon	Deteriorating structure, overgrown lagoon, erosion
17	02:09	<b>Golden Acres Wastewater</b>		
18	02:15		Plant	Stained riprap showing regular flooding
19	02:24		Outfall	Pollution, effluent pipe clogged with debris
20	02:35		Aeration Basin	Rusting structure, vegetation growth in plant
21	02:44		Control Panel	Improper wiring
22	02:53	<b>Great Oaks Wastewater</b>		
23	03:00		Influent Lines	Improper influent lines, rusted structure
24	03:05		Aeration Tank	Rusting structure, vegetation growth
25	03:14		Aeration Tank	Vegetation growth in plant
26	03:23		Aeration Tank	Rusting structure with vegetation overgrowth
27	03:33		Outfall	Pollution
28	03:42	<b>LH Wastewater</b>		
29	03:46		Bar Screen	Severe corrosion, damaged screen
30	03:55		Blower	Excessive building on blowers
31	04:04		Clarifier	Weir trough off level and submerged (nonfunctional)
32	04:13		Chemical Building	Degraded structure, improper repairs
33	04:19		Aeration Basin	Improper protection, piping and rust
34	04:28	<b>Persimmon Ridge Wastewater</b>		
35	04:35		Lagoon	Damaged aerators, duckweed overgrowth
36	04:50		Lagoon Cell	Duckweed overgrowth
37	05:00		Contact Chamber	Improper wiring, rust
38	05:08	<b>Center Ridge Water District 1</b>		
39	05:11		Well House Interior	No separation of chlorine and storage, exposed wiring and rafters

PDF Page	Time Stamp	Title	Facility	Status
40	05:20		Chlorine Equipment	Obsolete and improperly installed dosing pump
41	05:29	<b>Center Ridge Water District 2</b>		
42	05:33		Out of Service Well House	Ice damaged well, piping, and storage out of service
43	05:42		Out of Service Well House	Exposed wiring on well head
44	05:51		Hydropneumatic Tank	Tank has pinhole leaks at active well site
45	06:00		Active Well	Exposed wiring on well head
46	06:08		Active Well House	Exposed wiring, damaged insulation
47	06:17		Active Well House	Insulation damaged, chlorine in same room as storage
48	06:25		Active Well House	Obsolete and improperly installed dosing pump, exposed wiring
49	06:34	<b>Center Ridge Water District 3</b>		
50	06:39		Well House	Damaged structure, improper repairs
51	06:48		Well 1	Damaged structure, exposed wiring
52	06:56		Well 2	Damaged structure, exposed wiring
53	07:05		Well 1	Power supply conduit exposed and damaged
54	07:13		Well House Interior	Exposed wiring, improper insulation, chlorine and storage in same room
55	07:22		Well House	Obsolete and improperly installed dosing pump
56	07:30	<b>Center Ridge Water District 4</b>		
57	07:35		Well House	Damaged exterior
58	07:43		Well House	Exposed wiring
59	07:54		Well House	Exposed wiring on well head
60	08:00	<b>Timberland Wastewater</b>		
61	08:05		Influent Lift Station	Exposed wiring, improper piping, debris piles
62	08:14		Influent Lift Station Panels	Exposed wiring
63	08:23		Aeration Plant	Rusted steel, vegetation in plant, exposed wiring
64	08:31		Aeration Tankage	Holes rusted through, leaking wastewater
65	08:38		Aeration Tankage	Holes rusted through, leaking wastewater
66	08:48		Contact Chamber	Deteriorating structure, improper post-aeration, improper chemical storage



PDF Page	Time Stamp	Title	Facility	Status
67	09:00		Lagoon	Sludge filled, berm in poor condition
68	09:05	<b>River Bluffs Wastewater</b>		
69	09:09		Influent Line	Improper installation and materials
70	09:19		Influent Lift Station	Improper influent lines, rusting steel
71	09:27		Aeration Plant	Rusted steel throughout, damaged equipment
72	09:36		Aeration Plant	Steel lines repaired with duct tape
73	09:44		Contact Chamber	Excessive corrosion, improper chlorine dosing
74	09:54	<b>Fox Run Wastewater</b>		
75	10:00		Treatment Process Plant	Faulty electrical work & sloppy, insulated piping
76	10:06		Chemical and Material Storage	Improperly stored chemicals and materials, poor housekeeping, rusted tankage
77	10:15		Chemical and Material Storage	Improperly stored chemicals and materials, poor housekeeping, rusted tankage
78	10:21		Influent Lift Station	Improper electrical service, improper equipment installation
79	10:30	<b>Kingswood Wastewater</b>		
80	10:35		Treatment Plant	Rusted structures, overgrowth throughout the site
81	10:43		Treatment Plant	Improperly stored chemicals, vegetation growth in plant
82	10:52		Facility Perimeter	Damaged fencing
83	11:00	<b>Lake Columbia Wastewater</b>		
84	11:05		Fencing	Evidence of sewage overflow
85	11:14		Bar Screen / Splitter Box	Severe corrosion, clogged piping
86	11:25		Treatment Plant	Severe corrosion, poor chemical storage, damaged piping
87	11:33		Blower Housing & Treatment Plant	Damaged housing, maintenance failure
88	11:45		Sludge Return Line	Improper installation and materials
89	11:55		Sludge Return & Tank	Rusting steel, abandoned lines
90	12:05	<b>CSWR</b>		



**BLUEGRASS WATER**

**Utility Operating Company**

A CSWR Managed Utility

Bluegrass Water  
Before CSWR Intervention

# Airview Wastewater





## CLARIFIER STRUCTURE

STATUS: RUSTING STRUCTURE, INSECURE STRUCTURE





## AERATION CHAMBER

STATUS: PLANT AND RUST GROWTH





## AERATION TANK AND BAR SCREEN

STATUS: CLOGGED AND DETERIORATED BAR SCREEN



A photograph of an aeration tank at a wastewater treatment facility. The tank is a long, narrow rectangular basin with a metal frame. Inside, there is turbulent, aerated water. Several large, grey pipes run parallel to the length of the tank, likely for air supply. On the right side, there are more pipes and a red fire hydrant. In the foreground on the right, there is a grey bucket with some green plants growing out of it. The background shows lush green trees and foliage.

# AERATION TANK

STATUS: TREES GROWING FROM TREATMENT FACILITY





# LAGOON

STATUS: OVERGROWN LAGOON



The image shows a close-up view of a rusted industrial structure. On the left, a large vertical steel beam is covered in orange-brown rust, with several circular pockmarks. In the center, two wooden planks are laid across a gap. To the right, a metal chain hangs from a horizontal beam. The background shows more of the structure, including a green pipe and various metal components, all appearing aged and weathered.

## CLARIFIER AND CATWALKS

STATUS: RUSTED STEEL, DEBRIS, IMPROPER PIPING

# Brocklyn Wastewater





## AERATION TANKS

STATUS: DETERIORATING STEEL, NONFUNCTIONAL FLOW METER





# LAGOON

STATUS: DETERIORATING BERM AND EROSION





CONTACT CHAMBER

STATUS: DETERIORATED STRUCTURE AND IMPROPER PIPING





## LAGOON BERM

STATUS: STRUCTURE DETERIORATING AND LEAKING





## AERATION TANKS

STATUS: RUSTED STEEL, IMPROPER PIPING





## CONTACT CHAMBER AND LAGOON

STATUS: DETERIORATING STRUCTURE, OVERGROWN LAGOON, EROSION

# Golden Acres Wastewater





PLANT

STATUS: STAINED RIPRAP SHOWING REGULAR FLOODING



A photograph showing a body of water, possibly a stream or river, with a white effluent pipe extending into it. The pipe is heavily clogged with debris, including sticks and leaves, preventing water from flowing out. The water is dark and still, reflecting the surrounding environment. The scene is framed by a black border.

# OUTFALL

STATUS: POLLUTION, EFFLUENT PIPE CLOGGED WITH DEBRIS

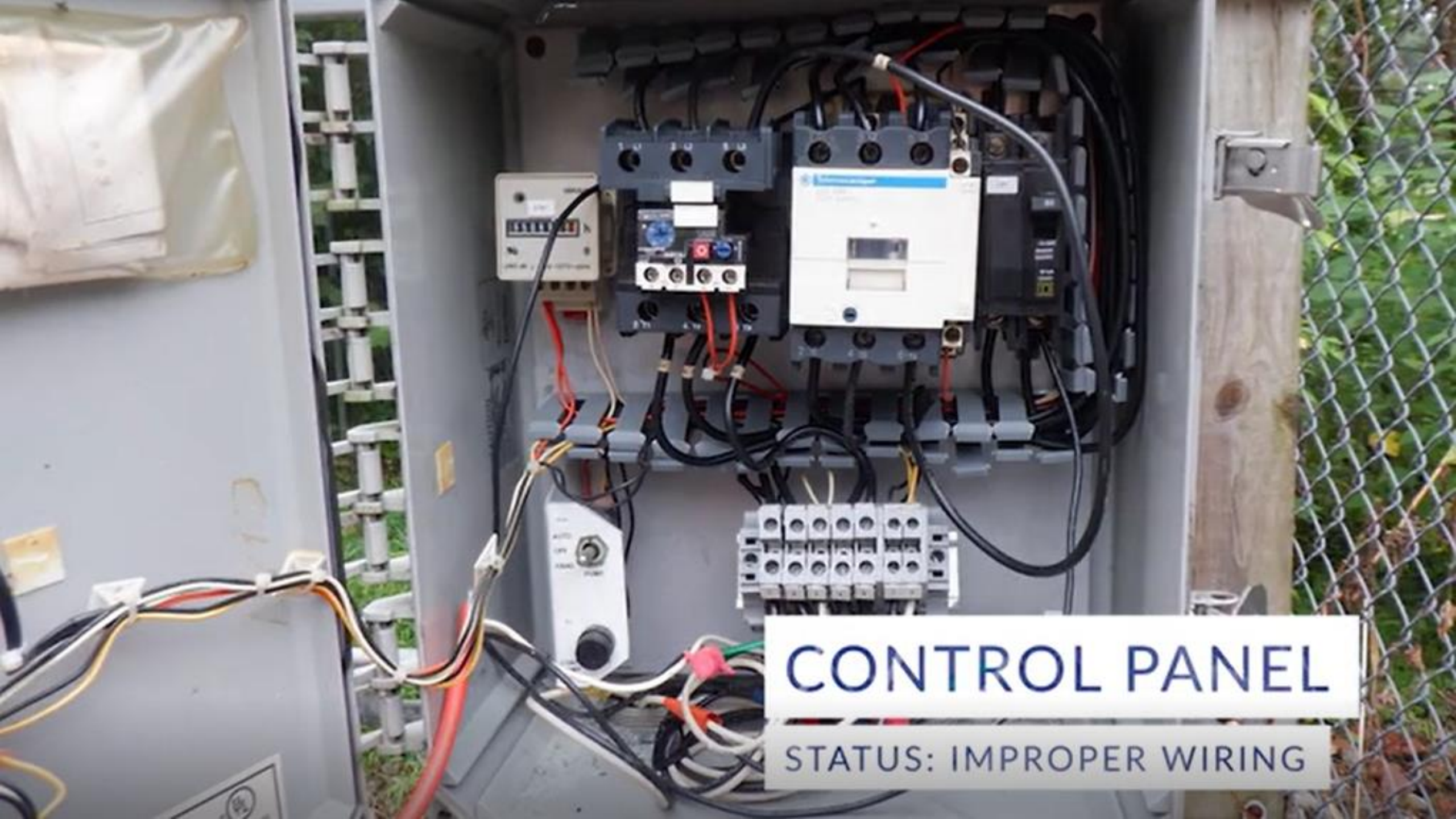


An aerial view of an aeration basin. The basin is rectangular and contains dark, still water. The concrete structure of the basin is heavily rusted and shows signs of decay. The edges of the basin are overgrown with dense green vegetation, including various leafy plants and grasses. A wooden plank or beam runs across the basin, partially submerged. The overall appearance is one of neglect and environmental encroachment.

## AERATION BASIN

STATUS: RUSTING STRUCTURE, VEGETATION GROWTH IN PLANT





# CONTROL PANEL

STATUS: IMPROPER WIRING

# Great Oaks Wastewater



A photograph of a utility site. In the foreground, there is a chain-link fence supported by metal posts. Behind the fence, a yellow metal structure is visible on the left. In the center, there is a dark, rectangular structure. To the right, a blue barrel with a white lid sits on the ground. Several white pipes run across the scene, some connected to a larger, rusted metal structure on the far right. The background is filled with green foliage.

## INFLUENT LINES

STATUS: IMPROPER INFLUENT LINES, RUSTED STRUCTURE



The image shows an aeration tank in a state of disrepair. The structure is heavily rusted, with brown and orange corrosion visible on the metal surfaces. There is significant vegetation growth, including green algae and other plants, particularly on the left side and in the foreground. The water in the tank is dark and appears to be moving, with some white foam or bubbles visible. The overall scene suggests a neglected or abandoned industrial or agricultural facility.

# AERATION TANK

STATUS: RUSTING STRUCTURE, VEGETATION GROWTH





## AERATION TANK

STATUS: VEGETATION GROWTH IN PLANT



An aerial view of an aeration tank. The tank's structure is made of dark, rusted metal beams. Inside, there are several long, parallel pipes. One pipe is white, and another is yellow. A red motor is visible in the lower-left corner. The water is dark and turbulent. There is a significant amount of green vegetation growing on the pipes and the edges of the tank. The surrounding area is grassy.

# AERATION TANK

STATUS: RUSTING STRUCTURE WITH VEGETATION OVERGROWTH





OUTFALL

STATUS: POLLUTION

LH Wastewater





## BAR SCREEN

STATUS: SEVERE CORROSION, DAMAGED SCREEN





**BLOWER**

STATUS: EXCESSIVE BUILDUP ON BLOWERS



# CLARIFIER

STATUS: WEIR TROUGH OFF LEVEL AND SUBMERGED (NONFUNCTIONAL)





## CHEMICAL BUILDING

STATUS: DEGRADED STRUCTURE, IMPROPER REPAIRS





## AERATION BASIN

STATUS: IMPROPER PROTECTION, PIPING AND RUST



# Persimmon Ridge Wastewater



## LAGOON

STATUS: DAMAGED AERATORS, DUCKWEED OVERGROWTH





# LAGOON CELL

STATUS: DUCKWEED OVERGROWTH





CONTACT CHAMBER

STATUS: IMPROPER WIRING, RUST



# Center Ridge Water District 1



## WELL HOUSE INTERIOR

STATUS: NO SEPERATION OF CHLORINE AND STORAGE, EXPOSED WIRING AND RAFTERS





## CHLORINE EQUIPMENT

STATUS: OBSOLETE AND IMPROPERLY INSTALLED DOSING PUMP

## Center Ridge Water District 2





## OUT OF SERVICE WELL HOUSE

STATUS: ICE DAMAGED WELL, PIPING, AND STORAGE OUT OF SERVICE





**OUT OF SERVICE WELL HOUSE**

STATUS: EXPOSED WIRING ON WELL HEAD





## HYROPNEUMATIC TANK

STATUS: TANK HAS PINHOLE LEAKS AT ACTIVE WELL SITE



A photograph of a well head assembly. The well head is a dark, circular metal cap mounted on a white PVC pipe. Several white PVC pipes are connected to the well head, including one that curves upwards and another that goes to the left. A bundle of multi-colored electrical wires (red, yellow, black, blue) is exposed and bundled together with a black zip tie on top of the well head. A yellow caution tape is wrapped around the wires. In the background, there is a blue plastic container and some green grass.

## ACTIVE WELL

STATUS: EXPOSED WIRING ON WELL HEAD





## ACTIVE WELL HOUSE

STATUS: EXPOSED WIRING, DAMAGED INSULATION



## ACTIVE WELL HOUSE

STATUS: INSULATION DAMAGED, CHLORINE IN SAME ROOM AS STORAGE





## ACTIVE WELL HOUSE

STATUS: OBSOLETE AND IMPROPERLY INSTALLED DOSING PUMP, EXPOSED WIRING

# Center Ridge Water District 3



A photograph of a well house, a small wooden structure with a gabled roof. The roof is partially covered with a white tarp that is wrinkled and appears to be poorly secured. The wooden siding is weathered and shows signs of decay. To the right of the well house, a large, light-colored spherical water tank is visible. The structure is surrounded by green grass and trees in the background. A white text box is overlaid on the bottom left of the image, and a grey text box is overlaid on the bottom right.

## WELL HOUSE

STATUS: DAMAGED STRUCTURE, IMPROPER REPAIRS





WELL 1

STATUS: DAMAGED STRUCTURE, EXPOSED WIRING





WELL 2

STATUS: DAMAGED STRUCTURE, EXPOSED WIRING



A photograph of a wooded area. In the foreground, there is a dirt path with some exposed roots. In the middle ground, there is a small, rectangular wooden structure, possibly a well cover or a small shed, situated on a grassy area. The background is filled with dense green trees and foliage.

WELL 1

STATUS: POWER SUPPLY CONDUIT EXPOSED AND DAMAGED





## WELL HOUSE INTERIOR

STATUS: EXPOSED WIRING, IMPROPER INSULATION, CHLORINE AND STORAGE IN SAME ROOM



## WELL HOUSE

STATUS: OBSOLETE AND IMPROPERLY INSTALLED DOSING PUMP



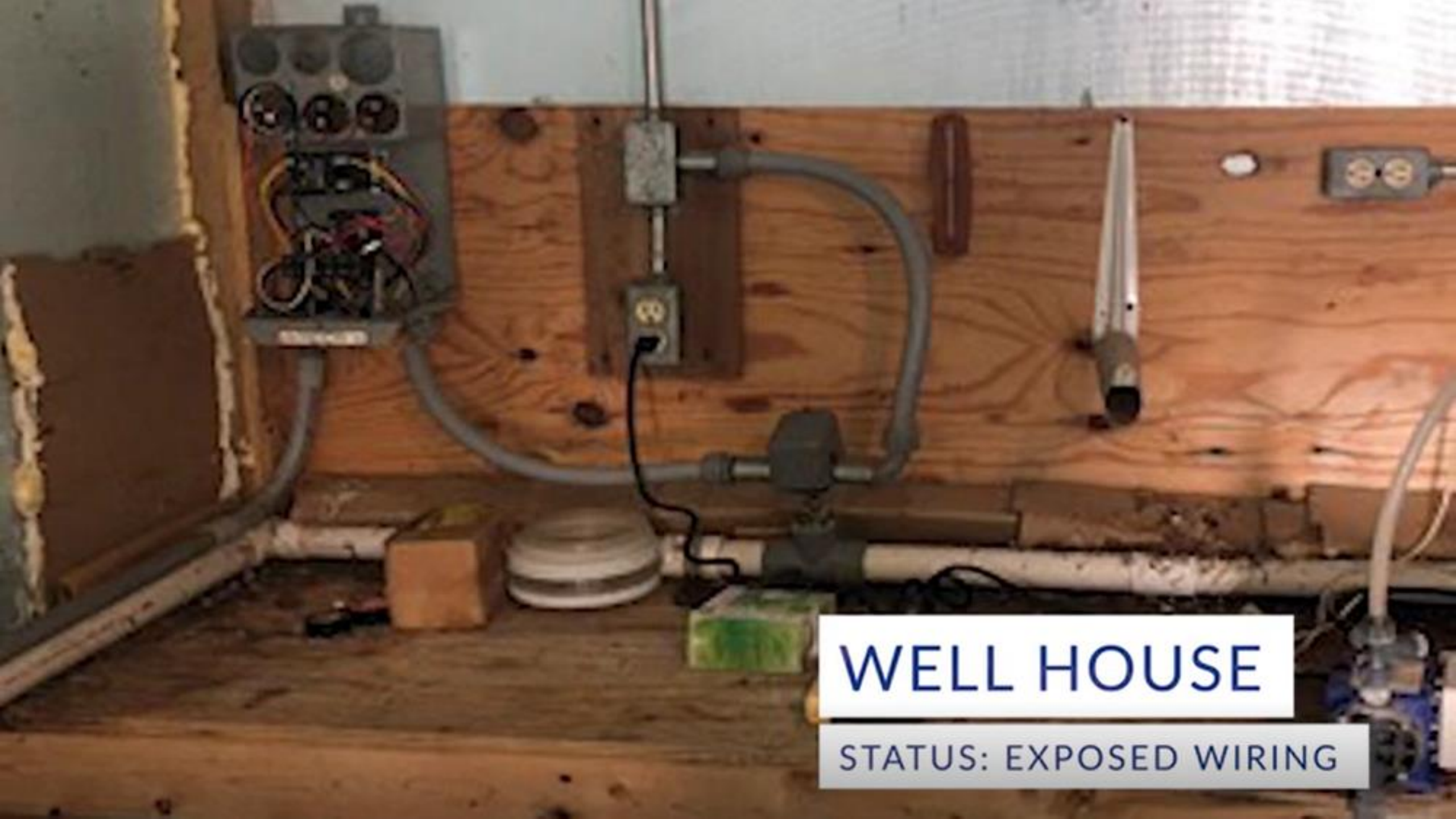
# Center Ridge Water District 4



## WELL HOUSE

STATUS: DAMAGED EXTERIOR





## WELL HOUSE

STATUS: EXPOSED WIRING



## WELL HOUSE

STATUS: EXPOSED WIRING ON WELL HEAD



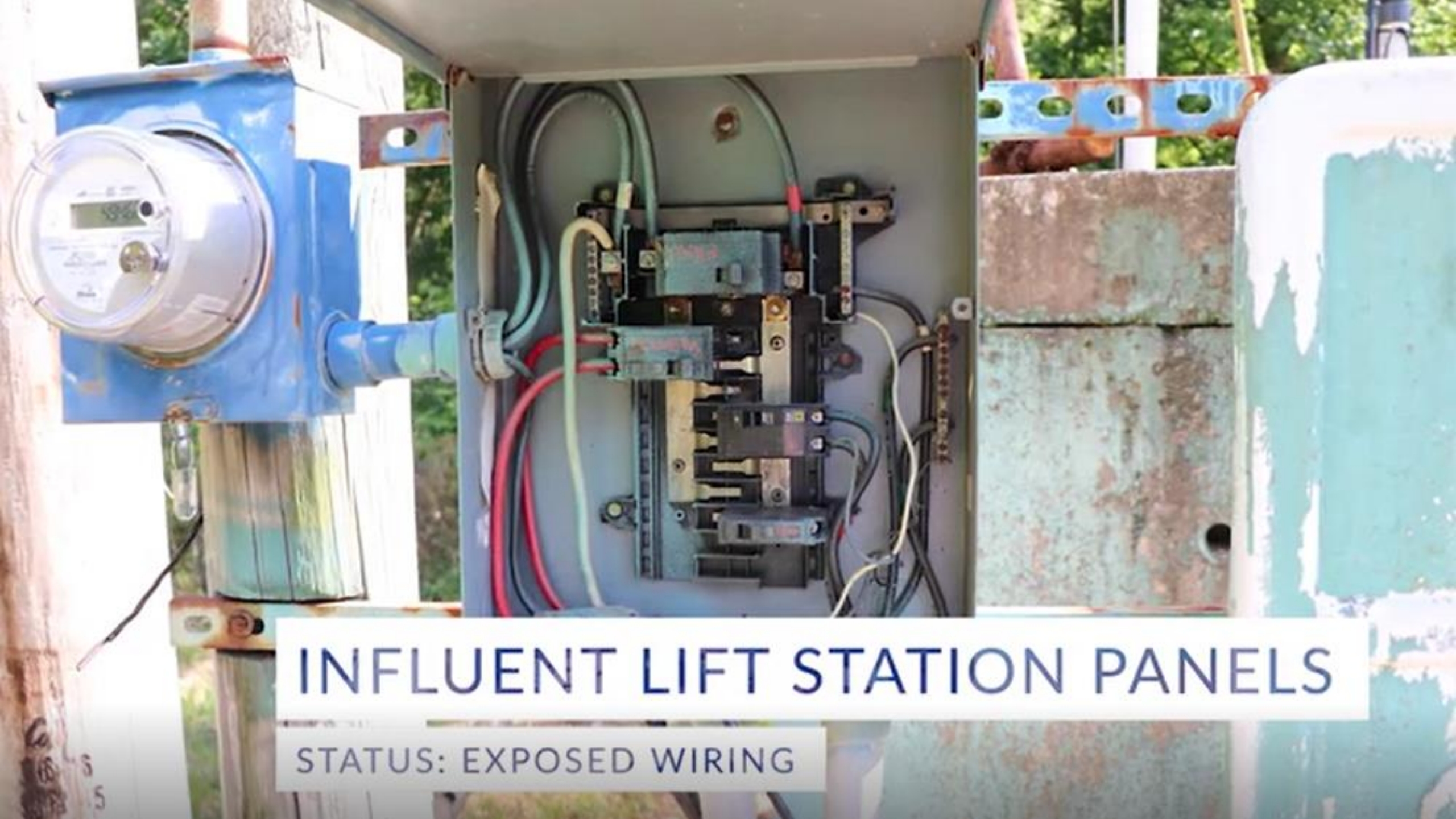
# Timberland Wastewater



## INFLUENT LIFT STATION

STATUS: EXPOSED WIRING, IMPROPER PIPING, DEBRIS PILES





# INFLUENT LIFT STATION PANELS

STATUS: EXPOSED WIRING





## AERATION PLANT

STATUS: RUSTED STEEL, VEGETATION IN PLANT, EXPOSED WIRING





## AERATION TANKAGE

STATUS: HOLES RUSTED THROUGH, LEAKING WASTEWATER



## AERATION TANKAGE

STATUS: HOLES RUSTED THROUGH, LEAKING WASTEWATER





# CONTACT CHAMBER

STATUS: DETERIORATING STRUCTURE, IMPROPER POST-AERATION, IMPROPER CHEMICAL STORAGE





LAGOON

STATUS: SLUDGE FILLED, BERM IN POOR CONDITION



# River Bluffs Wastewater



## INFLUENT LINE

STATUS: IMPROPER INSTALLATION AND MATERIALS



A photograph of an outdoor wastewater treatment facility. In the foreground, there are several circular manholes with metal grates. Some of the grates appear to be made of rusted steel. Two large white pipes run from a green metal structure towards the manholes. To the left, a long, narrow metal grate is lying on the ground, possibly a replacement or a part that has been removed. The background shows a chain-link fence and some trees. The overall scene suggests a state of disrepair or poor maintenance.

# INFLUENT LIFT STATION

STATUS: IMPROPER INFLUENT LINES, RUSTING STEEL



A photograph of an aeration plant. The image shows several vertical pipes of different colors (yellow, brown, and red) extending into a tank of dark, turbulent water. The pipes appear to be made of steel and show significant signs of rust and corrosion. A metal grate is visible on the right side of the frame. The overall scene suggests a state of disrepair and environmental degradation.

## AERATION PLANT

STATUS: RUSTED STEEL THROUGHOUT, DAMAGED EQUIPMENT





# AERATION PLANT

STATUS: STEEL LINES REPAIRED WITH DUCT TAPE



## CONTACT CHAMBER

STATUS: EXCESSIVE CORROSION, IMPROPER CHLORINE DOSING



# Fox Run Wastewater



## TREATMENT PROCESS PLANT

STATUS: FAULTY ELECTRICAL WORK & SLOPPY, INSULATED PIPING





# CHEMICAL AND MATERIAL STORAGE

IMPROPERLY STORED CHEMICALS AND MATERIALS, POOR HOUSEKEEPING, RUSTED TANKAGE



A photograph showing several large, rusted metal drums and plastic buckets scattered in a grassy area enclosed by a chain-link fence. Some drums are upright, while others are tipped over. A yellow bucket is lying on its side. The scene is overgrown with weeds and grass, suggesting a lack of maintenance. A white pipe or rod lies on the ground to the right.

# CHEMICAL AND MATERIAL STORAGE

IMPROPERLY STORED CHEMICALS AND MATERIALS, POOR HOUSEKEEPING, RUSTED TANKAGE





# INFLUENT LIFT STATION

STATUS: IMPROPER ELECTRICAL SERVICE, IMPROPER EQUIPMENT INSTALLATION

# Kingswood Wastewater





# TREATMENT PLANT

STATUS: RUSTED STRUCTURES, OVERGROWTH THROUGHOUT THE SITE





## TREATMENT PLANT

STATUS: IMPROPERLY STORED CHEMICALS, VEGETATION GROWTH IN PLANT





# FACILITY PERIMETER

STATUS: DAMAGED FENCING

# Lake Columbia Wastewater





FENCING

STATUS: EVIDENCE OF SEWAGE OVERFLOW





## BAR SCREEN/SPLITTER BOX

STATUS: SEVERE CORROSION, CLOGGED PIPING





# TREATMENT PLANT

STATUS: SEVERE CORROSION, POOR CHEMICAL STORAGE, DAMAGED PIPING





## BLOWER HOUSING & TREATMENT PLANT

STATUS: DAMAGED HOUSING, MAINTENANCE FAILURE





## SLUDGE RETURN LINE

STATUS: IMPROPER INSTALLATION AND MATERIALS





## SLUDGE RETURN & TANK

STATUS: RUSTING STEEL, ABANDONED LINES





**CSWR**  
Central States Water Resources

[CentralStatesWaterResources.com](http://CentralStatesWaterResources.com)