Compliance Inspection Report

Permit: WQ0017224	Effective: 10/03/18	Expiration: 11/30/23	Owner : Gwwt	o LLC
SOC:	Effective:	Expiration:	Facility: Gingu	ite Woods WWTP
County: Dare			N Cro	atan Hwy
Region: Washington			South	ern Shores NC 27949
Contact Person: Bob How	sare	Title:		Phone: 252-305-2696
Directions to Facility:				
Approximately 0.56 miles ea Dogwood Tr in Kitty Hawk.	ast of the Currituck Sou	nd bridge, on the NE corn	er of the intersec	tion of US 158 (N Croatan Hwy) and S
System Classifications: S	l, WW2,			
Primary ORC: David John Secondary ORC(s):	Robertson	Certification:	987714	Phone: 252-489-9711
On-Site Representative(s) Related Permits:	:			
Inspection Date: 03/14/20	23 Entry Time	e 11:00AM Exi	t Time: 12:30PN	1
Primary Inspector: Robert	B Tankard			Phone: 252-946-6481 Ext.233
Secondary Inspector(s):				
Vi	ctoria Herdt			
Reason for Inspection: Ro	outine	Inspectio	n Type: Technica	al Assistance
Permit Inspection Type: F	Reclaimed Water			
Facility Status: Con	npliant 📃 Not Com	pliant		
Question Areas:				
Treatment Flow Measur Treatment Flow Measur Use Records	rement-Water T	reatment Flow Measurem reatment		Miscellaneous Questions Treatment Barscreen
Treatment Filters Treatment Clarifiers Treatment Return pump	Т	reatment Activated Sludge reatment Disinfection ind Use-Reuse		Treatment Sludge Storage/Treatment Treatment Flow Measurement Standby Power

(See attachment summary)

Inspection Summary:

A compliance inspection was conducted on March 14, 2023 by Victoria Herdt and Robert Tankard of the NCDEQ DWR and Dsve Robertson(ORC) with Atlantic OBX and Bob Howsare.

Walking through the plant, the following issues were observed:

The EQ basin tanks, digestor, and aeration basins are new and have been replaced. The barscreen requires a splash plate to direct flows down into the screen. One of the blowers need to be replaced or repaired.

The tankarge for the clarifier, filters and disinfection is in bad shape and needs to be replaced within the next two to five years. The weirs and skimmer of the clarifier work but do not know for how long. The tertiary filters will only work in manual mode so backwashing only occurs when the ORC is on site. The disinfection system needs to be repaired because fecal results does not always meet limits.

The turbidity meter has been replaced and calibrated. The flow meter has been calibrated. The recalimed valve is questionable. Operator did not know if it worked or not. The irrigation system does not work. New pumps and controller are probably needed.

The infiltration pond has been cleaned and looks great. Vegetation needs to be established on the bank to stabilize erosion.

The generator needs to be replaced.

Groundwater violations are present in MW1 and MW2. MW2 is located offsite of wwtp.

On the day of inspection the facility was considered non-compliant in regards to Permit # WQ0017224.

Type Yes No NA NE Lagoon Spray, LR Infiltration System Single Family Spray, LR Activated Sludge Spray, HR Activated Sludge Spray, LR Activated Sludge Drip, LR Recycle/Reuse Single Family Drip Reuse (Quality) **Treatment** Yes No NA NE Are Treatment facilities consistent with those outlined in the current permit? Do all treatment units appear to be operational? (if no, note below.) Comment: Facility has replaced the front part of the wwtp. The clarifiers, filters and disinfection system are in need of repair. The spray irrigation system is not operational. **Treatment Flow Measurement-Influent** Yes No NA NE Is flowmeter calibrated annually? Is flowmeter operating properly? Does flowmeter monitor continuously? Does flowmeter record flow? Does flowmeter appear to monitor accurately? Comment: **Treatment Flow Measurement-Water Use Records** Yes No NA NE Is water use metered? Are the daily average values properly calculated? Comment: **Treatment Flow Measurement-Effluent** Yes No NA NE Is flowmeter calibrated annually? Is flowmeter operating properly? Does flowmeter monitor continuously?

Does flowmeter record flow?

Does flowmeter appear to monitor accurately?

Comment:

Standby Power

Yes No NA NE

Owner - Facility: Gwwtp LLC Inspection Type : Technical Assistance

Is automatically activated standby power available?	
Is generator tested weekly by interrupting primary power source?	
Is generator operable?	
Does generator have adequate fuel?	
Comment: Generator is old surplus army type and has not worked for some time. Generator need	s to be

replaced.

Treatment Barscreen

Is it free of excessive debris?

Is disposal of screenings in compliance?

Are the bars spaced properly?

Is the unit in good condition?

Comment: <u>Barscreen requires a splash plate</u>. The way it is designed flow goes around the barscreen. <u>Need the splash plate to direct flow downward through the screen</u>.

Treatment Activated Sludge

Is the aeration mechanism operable? Is the aeration basin thoroughly mixed? Is the aeration equipment easily accessed? Is Dissolved Oxygen adequate? Are Settleometer results acceptable? Is activated sludge an acceptable color?

Comment: <u>Aeration tank is a new system.</u>

Treatment Clarifiers

Are the weirs level? Are the weirs free of solids and algae? Is the scum removal system operational? Is the scum removal system accessible? Is the sludge blanket at an acceptable level? Is the effluent from the clarifier free of excessive solids? Comment: The clarifiers are old and should be replaced within the next two to three years.

Treatment Return pumps

Are they in place? Are they operational?

Comment:

Treatment Filters

Is the filter media present?

Is the filter media the correct size and type?

Yes	No	NA	NE

Yes No NA NE

Yes	No	NA	NE

Yes	No	NA	NE



Is the air scour operational?

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Is the scouring acceptable?

Is the clear well free of excessive solids?

Is the mud well free of excessive solids and filter media?

Does backwashing frequency appear adequate?

Comment: Filters and tankage is old and needs to be replaced. Filters have to be manually backwashed with only one pump working. Filter media needs to be replaced.

Treatment Sludge Storage/Treatment Yes No NA NE Is the aeration operational? Is the aeration pattern even? If required, are Sanitary "Ts" present in tankage? Comment: **Treatment Disinfection** Yes No NA NE Is the system working? Do the fecal coliform results indicate proper disinfection? Is there adequate detention time (>=30 minutes)? Is the system properly maintained? If gas, does the cylinder storage appear safe? Is the fan in the chlorine feed room and storage area operable? Is the chlorinator accessible? If tablets, are tablets present? Are the tablets the proper size and type? Is contact chamber free of sludge, solids, and growth? If UV, are extra UV bulbs available? If UV, is the UV intensity adequate? # Is it a dual feed system? Does the Stationary Source have more than 2500 lbs of Chlorine (CAS No. 7782-50-5)? If yes, then is there a Risk Management Plan on site? If yes, then what is the EPA twelve digit ID Number? (1000- -)

If yes, then when was the RMP last updated?

Comment: <u>The disinfection system is old and needs to be replaced. Fecal limits are not being met on a regular basis.</u>

End Use-Reuse

Is the acreage in the permit being utilized?

Does the acreage specified in the permit correspond to the measured acreage at the site?

Are all essential units provided in duplicate?

Yes	No	NA	NE

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Is an automatically activated standby power source available?		
Is the equalization capacity adequate?		
Is aerated flow equalization present?		
Has the turbidity meter been calibrated in the last 12 months?		
Does the turbidity meter have recording capabilities?		
Is all flow diverted at the appropriate times?		
Is all upset wastewater diverted from reuse storage unit?		
Is all upset wastewater treated, retreated, or disposed of acceptably?		
Is upset wastewater treated prior to discharge to irrigation storage?		
Is public access restricted from irrigation area during active site use?		
If golf course, is a sign posted in plain sight on the club house?		
Is the cover crop acceptable?		
Are buffers adequate?		
Is the site free of ponding/runoff?		
Is the acreage in the permit being utilized?		
Is the application equipment acceptable?		
Is the application area free of limiting slopes?		
How close is the closest water supply well?		
Are any supply wells within the CB?		
Are any supply wells within 250' of the CB?		
Is municipal water available in the area?		
Are GW monitoring wells required?		
Are GW monitoring wells located properly w/ respect to RB and CB?		
Are GW monitoring wells properly constructed, including screened interval?		
Comment: Reclaimed irrigatin system is not functional. New irrigation pumps and controllers are required.		

Diversion valve needs to be checked to make sure it is functional and if not, it needs to be replaced,