

Town of Wallace

316 EAST MURRAY STREET • WALLACE, NORTH CAROLINA 28466 • PHONE: 910-285-4136

MAYOR
Charles C. Farrior, Jr.

TOWN MANAGER
Laurence Bergman

TOWN COUNCIL
Francisco Rivas-Diaz
Wanetta Carlton
William Jeffrey Carter
Frank Brinkley
Jason Wells

TOWN CLERK
Jackie Nicholson

TAX COLLECTOR
Robert Taylor

FINANCE OFFICER
Robert Taylor

TOWN ATTORNEY
Anna Heath

FY 2020-2021 Annual Report for Wallace Regional Wastewater Treatment Plant NPDES Permit # NC0003450

Town Manager: Laurence Bergman
Public Works Director: Brent Dean
Contact Person: Lisa Cottle
851 Old Wilmington Rd.
Wallace, NC 28466

ORC: Lisa Cottle
Backup ORC: Dakota Marston
Phone No.: 910-285-5927

The Town of Wallace operates a 5.42 million gallon per day (MGD) waste water treatment plant at 851 Old Wilmington Rd. southeast of the town. We discharge into the Rockfish Creek in the Cape Fear river basin. The plant consists of the following equipment: a mechanical spiral screen, vortex grit removal, Influent transfer basin with four (4) variable speed pumps, three (3) 1.87 MG concrete Sequencing Batch Reactor (SBR) basins with fine bubble diffusers, floating mixer, floating decanter and two (2) sludge transfer pumps and controls, five (5) 1,443 scfm blowers, one (1) 2,300,000 gallon post aeration basin with floating aerator, two (2) tertiary disk filters, two (2) UV disinfection channels with three (3) UV modules in each channel, effluent basin with four (4) variable speed pumps and controls, one (1) 1.87 MG concrete aerobic sludge digester with three (3) floating aerators and one (1) floating decanter, two (2) 330,000 gallon concrete sludge thickening basins with three (3) 900 scfm blowers and one (1) sludge transfer pump and floating decanter in each and one (1) 2,250 kW emergency generator with automatic transfer switch for backup power.

During the fiscal year 2020-2021 we received a Notice of Violations (NOV) of our NPDES permit for the month of: July 2020 for exceeding the monthly limit for BOD and for exceeding weekly and monthly limits for ammonia. This was caused by equipment failure in one of our basins. That basin was taken offline for repairs and we were back in compliance the following month.

We have also exceeded a weekly and monthly limit for BOD for the month of June 2021. At the time of this printing, the State has not issued a NOV. These exceedances are due to the long dry period we have had followed by heavy rainfall, which scoured the lines coming into the plant. The WWTP could not effectively treat the high strength slug load that occurred.

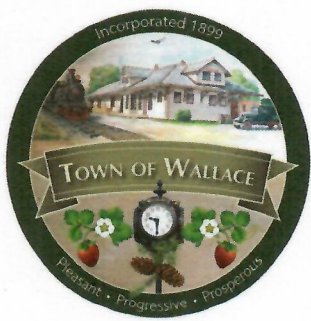
Collection system violations are reported on the Collection Annual Performance Report.

Notification:

The Town of Wallace customers were informed by a notice in the Duplin Times newspaper that this report was available at Town hall or from the website : <https://www.wallacenc.gov/public-services/>

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The Town of Wallace is an equal opportunity provider and employer.



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Town of Wallace Wastewater Treatment Plant Performance

month / year	flow MGD out	BOD in ppm	BOD out ppm	TSS in ppm	TSS out ppm	Fecal Coliform out #/100ml	NH ₃ -N out ppm
NPDES Permit limits	5.42 MGD		summer 5.0 ppm winter 10.0ppm		30 ppm	200 month 400 week	summer 1.0 ppm winter 2.0 ppm
Jul 2020	1.349	157	5.4	182	8.4	16	1.95
Aug 2020	1.529	97	4.8	133	8.3	20	0.40
Sept 2020	1.579	104	3.4	115	8.7	31	0.29
Oct 2020	1.664	91	3.7	119	9.2	26	0.29
Nov 2020	1.693	151	4.1	214	10.6	9.1	0.47
Dec 2020	1.831	142	3.1	169	6.8	6.1	<0.2
Jan 2021	2.302	135	3.1	181	4.9	3.4	<0.2
Feb 2021	2.509	152	3.7	292	6.8	2.5	0.45
Mar 2021	1.465	203	3.6	391	7.1	4.9	<0.2
Apr 2021	1.230	205	3.5	303	8.2	3.1	<0.2
May 2021	1.004	217	4.1	282	9.4	3.2	<0.2
Jun 2021	1.233	202	5.45	285	10.4	15.1	<0.2

MGD= million gallons per day

BOD= Biochemical Oxygen Demand

TSS= Total Suspended Solids

ppm= parts per million

NH₃-N= Ammonia as Nitrogen

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