

2009
Annual Report for Wastewater Treatment Works/Wastewater Collection System
For Town of Wallace Wastewater Treatment Plant

NPDES Permit # NC0020702

NPDES Permit # NC0003450

Town Manager: Kenneth Comatzer

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The Town of Wallace operates a 1.0 MGD (million gallons a day) waste water treatment plant near NC Highway 11, southeast of the Town which discharges into Rockfish Creek of the Cape Fear River Basin. The plant consists of a mechanical bar screen and grit remover, a 0.275 MG equalization tank, a 1.0 MG oxidation ditch with dual brush rotors, two primary clarifiers, a tertiary filter, two aerobic digestion, a sludge holding tank, a cascade type post-aeration tank, a polishing clarifier, a gaseous chlorine contact basin and six sludge drying beds.

During 2009 there were reportable NPDES violations at the wastewater plant. Collection system violations are reported on the Collection Annual Performance Report page.

Violations: July 08: exceeded weekly fecal limits on the 3rd week.

August 08: exceeded weekly fecal limit on the 3rd week.

October 08: Failed to pull monthly low level mercury sample.

November 08: Exceeded monthly low level mercury limit.

April 09: Exceeded monthly BOD and Ammonia limits, exceeded weekly limit on BOD for the first three week, exceeded weekly Ammonia limits for first four weeks, was below daily DO limit on the 15th.

May 09: Exceeded daily chlorine limit, exceeded low level Mercury limit.

June 09: Exceeded daily chlorine limit.

Notification: The Town of Wallace customers were informed by a notice in the Wallace Enterprise newspaper that this report was available at Town hall.

Plant Performance Form for the Town of Wallace

YEAR;	FLOW (MOD) OUT	BOD IN (ppm)	BOD OUT (ppm)	ss IN (ppm)	SS OUT (Ppm)	Fecal Coliform OUT (100 ml)
NPDES PERMIT LIMITS	1.000		Summer 5.0 Winter 10.0		30	200
July 08	.5561	210.5	2.4	263.9	<5	59
AUG 08	.5655	166.5	0.7	123.4	<5	17
Sept 08	.6781	100.2	0.6	128.5	7.0	368
OCT 08	.5606	331.4	0.8	517.8	<5	2
NOV 08	.6407	190.9	1.4	249.4	5.0	3
DEC 08	.7507	131.8	1.7	103	<5	3
JAN 09	.7943	103.2	2.9	116.2	7.3	4
FEB 09	.7201	167.5	3.7	187	8	4
MAR 09	.8628	135.9	7.7	155.5	19.5	12
APR 09	.7899	168.5	14.2	228.2	19	23
MAY 09	.8144	275.8	5.0	507.5	9.7	104
June 09	.8027	191.2	3.1	231.5	6.0	24
YEARLY AVH.	.7113	181.1	3.7	234.3	6.8	12.7
YEARLY MAX.	.8628	331.4	14.2	263.9	19.5	368
YEARLY MIN.	.5561	100.2	0.6	103	<5	2

YEAR;	NH3-N Out (ppm)	PO4-P Out (ppm)					
NPDES PERMIT LIMITS	Summer 1.0 Winter 2.0						
July 08	0.02	1.65					
AUG 08	0.02	2.20					
Sept 08	0.1	1.44					
OCT 08	0.02	1.13					
NOV 08	0.02	1.5					
DEC 08	0.19	0.6					
JAN 09	0.2	0.58					
FEB 09	0.95	2.74					
MAR 09	3.49	0.3					
APR 09	5.19	0.77					
MAY 09	0.5	0.83					
June 09	0.28	1.49					
YEARLY AVE.	0.62	1.3					
YEARLY MAX.	5.19	2.74					
YEARLY MIN.	0.02	0.3					

Plant Performance Form (cont'd.) Plant Name Town of Wallace

* Attach additional pages, if necessary, for other parameters. (1 ppm is equivalent to 1 mg/L)

