



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
JACKSON ENVIRONMENTAL FIELD OFFICE
1625 HOLLYWOOD DRIVE
JACKSON, TENNESSEE 38305-4316
PHONE (731) 512-1300 STATEWIDE 1-888-891-8332 FAX (731) 661-6283

June 19, 2015

The Honorable Ray Arnold
Mayor, City of Bradford
P.O. Box 87
Bradford, TN 38316

Re: Bradford Wastewater System Inspection
NPDES No. TN0062022
Gibson County

Dear Mayor Arnold:

Pursuant to the Tennessee Code Annotated, Section 68-13-103, I conducted an inspection on June 17, 2015, of the wastewater facilities serving the City of Bradford. I am pleased to report there are no major deficiencies of the wastewater system. The operation and maintenance of the wastewater collection and treatment system can be attributed to the funding and support from you, the city board of alderman and the excellent work of Mr. Dethloff and his staff. It is hoped continued funding can be provided to maintain and improve the wastewater treatment and collection system. You are commended in protecting the waters of the state.

I appreciate the courtesy shown to me during my visit and if you have any questions or comments concerning this correspondence please contact me at 731-512-1313.

Sincerely,

A handwritten signature in cursive script that reads "Roger Orgain".

Roger Orgain
Department of Environment and Conservation
Division of Water Resources

Cc: J.D. Dethloff, Public Works Director
File

CURRENT OPERATIONS:

	Permit	Actual	# of Violations
Flow, influent avg / max	Report	.244 / 1.0	
effluent avg / max	Report	.236 / .678	
(C)BOC influent average			
eff, avg	45	13	
eff, max	65	30	
NH3, eff, avg			
eff, max			
TSS, influent, average			
effluent, average	100	54	
effluent, maximum	120	122	1
E. coli, avg / max	126/941	56 / 4.0	
Chlorine, max.	2.0	1.8	
Settleable Solids, max	1.0	<.1	
D.O., minimum	1.0	5.4	
pH max / min	9.0 / 6.0	8.4 / 6.2	
Other parameters:			
Dates of Operation Reports: April 1, 2014 - March 31, 2015			

CERTIFIED OPERATOR:

	Name	Class Required	Class Holds
Plant	J.D. Dethloff	BN	BN
Collection	J.D. Dethloff	CS1	CS2

COLLECTION SYSTEM:

Number of connections:	495	Miles of line:	12
Number of lift stations:	1		
Number of bypass points:	N/A		
Signs posted?	N/A		
Number of sewer overflows during period?	1		
Reported?	YES		
Cause of overflow/bypass:	N/A		
Ongoing I/I rehab?	YES	Man hours:	29/wk
Any customers with back pressures?	N/A	Why?	

PRIMARY TREATMENT:

Bar Screen		
Comminutor		
Grit Chamber		
Disposal		
Settling tanks		
Scum removal		
Sludge removal		
Flow measurement		
Influent sampler		
Weirs level		
Submerged weirs		
Gasification		
Other		

Satisfactory Unsatisfactory Marginal

OXIDATION DITCH

Color		
Number aerators		
Spray problem		
Foam		
Other comments:		

FINAL CLARIFIER:

Scum		
Blanket depth		
Solids carryover		
Gasification		
Weirs		
Other		

FINAL FILTER:

Number in operation		
Backwash frequency		

CHLORINE CONTACT:

Type chlorinators	S	Pulse (Bleach)
Effective dosage	S	
Contact time	S	
Settled solids	N/A	
Outfall for contact?	S	
Dechlorination?	N/A	
Other		

Satisfactory Unsatisfactory Marginal

HYDROGRAPH CONTROLLED RELEASE: NA

Days of storage		
Stream flow measurement		
Flow release system		
Date last calibration		
Other		

LAGOON:

Influent distribution	S	
Number of cells	2	
Baffles?	N/A	
Weed control (banks)	S	
Aquatic weed control	S	
Odors	N/A	
Floating solids	N/A	
Dike erosion	N/A	
Water depth	4-6 ft	
Outlet baffled	YES	
Aeration equipment in use	YES	
Uniform aeration	M	Scheduled to replace present aerators with 8 new ones
Seepage	N/A	
Rodent activity	N/A	
Other		

SPRAY IRRIGATION:

Ponding		
Runoff		
Vegetation		
Other		

Satisfactory Unsatisfactory Marginal

EFFLUENT:

Color	S	Light Green
Scum/Solids	N/A	
Odor	N/A	
Foam	N/A	
Flow measurement	S	
Lift station	S	
Outfall length	1.5 Miles	
Outfall sampling	S	3/4 of a mile from lagoon
Outfall sign	S	
Stream upstream		Unable to observe
Stream downstream (')		Unable to observe
Stream downstream (')		
Other		

S Satisfactory **U** Unsatisfactory **M** Marginal

Home » [Latitude and Longitude of a Point](#)



To find the latitude and longitude of a point **Click** on the map, **Drag** the marker, or enter the...

Address: Bradford, TN

Map Center: [Wikipedia/Wikivoyage Places of Interest](#) - [Get Address](#) - [Land Plat Size](#)

Great food. Low prices.  **\$6⁹⁹.** **With Card**  **Fresh Hand-Breaded Chicken Tenders** Valid until Jun 23

Latitude and Longitude of a Point



Get the Latitude and Longitude of a Point

When you click on the map, move the marker or enter an address the latitude and longitude coordinates of the point are inserted in the boxes below.

Latitude: 36.087487
 Longitude: -88.807393

	Degrees	Minutes	Seconds
Latitude:	36	5	14.9532
Longitude:	-88	48	26.6148

Show Point from Latitude and Longitude

Use this if you know the latitude and longitude coordinates of a point and want to see where on the map the point is.

Use: + for N Lat or E Long - for S Lat or W Long.

Example: +40.689060 -74.044636

Note: Your entry should not have any embedded spaces.

Decimal Deg. Latitude:

Decimal Deg. Longitude:

Example: +34 40 50.12 for 34N 40' 50.12"

Degrees Minutes Seconds

Latitude:

Longitude:



To find the latitude and longitude of a point **Click** on the map, **Drag** the marker, or enter the...

Address: Bradford, TN

GO

Map Center: [Wikipedia/Wikivoyage Places of Interest](#) - [Get Address](#) - [Land Plat Size](#)

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Latitude and Longitude of a Point



[Clear / Reset](#) [Remove Last Blue Marker](#)
[Center Red Marker](#)

Get the Latitude and Longitude of a Point

When you click on the map, move the marker or enter an address the latitude and longitude coordinates of the point are inserted in the boxes below.

Latitude: 36.076455

Longitude: -88.810062

	Degrees	Minutes	Seconds
Latitude:	36	4	35.238
Longitude:	-88	48	36.2232

Show Point from Latitude and Longitude

Use this if you know the latitude and longitude coordinates of a point and want to see where on the map the point is.

Use: + for N Lat or E Long - for S Lat or W Long.

Example: +40.689060 -74.044636

Note: Your entry should not have any embedded spaces.

Decimal Deg. Latitude:

Decimal Deg. Longitude:

[Show Point](#)

Example: +34 40 50.12 for 34N 40' 50.12"

Degrees Minutes Seconds

Latitude:

Longitude:

[Show Point](#)

Bradford TAD062022

	JAN 15	FEB 15	MAR 15	APR 14	MAY 14	JUN 14	JUL 14	AUG 14	SEPT 14	OCT 14	NOV 14	DEC 14	
Ave In	.243	.286	.381	.375	.247	.317	.132	.161	.23	.155	.136	.276	.244
Max in	.523	.773	.771	1.00	.823	.948	.328	.478	.364	.555	.308	.73	1.0
Ave eff	.25	.295	.435	.408	.258	.363	.114	.138	.091	.111	.091	.274	.236
Max eff	.57	.646	.622	.678	.187	.581	.361	.422	.217	.42	.233	.567	.678
Inf BOD	136	51	41	111	103	100	94	89	82	67	80	46	83
eff BOD	7	5	9.5	6	13	17	23	25	23	20	11	7	13
max BOD	8	6	15	9	16	23	29	30	26	29	14	14	30
Inf TSS	4	5	5	5	5	5	5	5	5	5	5	5	5
eff TSS	41	30	36.5	28	42	51	98	108	83	64	34	40	54
max TSS	47	34	50	36	49	66	122	122	116	92	41	48	122
max Set s	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
min DO	10.3	9.9	8.4	6.5	6.7	5.6	6.3	6.7	5.4	5.7	8.3	8.2	5.4
max pH	7.8	7.9	8.4	7.3	7.4	7.8	8.4	7.6	7.3	8.1	7.9	7.6	8.4
min pH	7.1	6.9	6.7	6.4	6.7	6.3	6.2	6.4	6.7	6.6	6.8	6.6	6.2
E. Coli m	0	0	6	1	9	1	6	46	56	17	5	1	56
E. Coli mi	0	0	2.8	1	3	1	4.6	13.4	19.3	8.7	4.4	1	4.9
max Cl2	1.5	1.8	1.6	1.1	1.2	1.7	1.5	1.4	1.4	1.3	1.3	1.3	1.8
Inf NH3													
ave NH3													
max NH3													
Nitrate													
Phos.													
BOD Rem	95	91	77	88	87	73	77	72	67	76	76	45	81



TDEC - Division of Water Resources

ICIS NPDES Facilities Inspection Report

Facility Data

NPDES ID: TN0062022 Facility Site Name: Bradford POTW Address: P.O. Box 87, Bradford, TN 38316 Permit Eff. Date: Feb.29, 2011 Permit Exp Date: June 17, 2015 SIC Code:

Compliance Monitoring Information

Compliance Monitoring Activity Name: Compliance Evaluation (non-sampling) (CEI) * If Bio Monitoring is selected above, select the method used: Compliance Monitoring Activity: Reconnaissance without Sampling

Compliance Monitoring Dates/Times

Entry Date/Time (mm/dd/yyyy hh:mm): June 17, 2015 0800 Exit Date/Time (mm/dd/yyyy hh:mm): June 17, 2015 1030

Facility Representatives

JD Dethloff, Operator 731-742-3212 On-Site Representative(s) Title, Phone Number Ray Arnold, Mayor 731-742-3465 Responsible Official(s), Title, Phone Number

Statute and Section Information

Federal Statute: CWA - Clean Water Act State Statute: Tennessee Water Quality Control Act Programs: NPDES- Base Program (Limits, Reporting, & Schedule) Compliance Monitoring Reason: Core Program Compliance Monitoring Agency Type: State Agency Name: TDEC - DWR Did EPA assist/ Inspection? No Time Physically conducting activity: Days: Hours: 2.5 Inspection Type: State Compliance Monitoring Action Outcome: No Violation Lead Agency: State Compliance Monitoring Rating Code: If Joint Inspection, what was the purpose of the other party?

Areas Evaluated During Inspection (Check only those areas evaluated)

Table with 3 columns and 5 rows of checkboxes for areas evaluated: Permit, Records / Records, Facility Site Review, Effluent / Receiving Waters, Flow Measurement, Self - Compliance Program, Compliance Schedule, Laboratory, Operations & Maintenance, Sludge Handling / Disposal, Pretreatment, Pollution Prevention, Storm Water, Combined Sewer Overflow, Sanitary Sewer Overflow.

Compliance Monitoring Summary

No Violations

EPA and State Representatives

Inspector's Signature: Roger Degan Agency / Office / Phone: TDEC/DWR/JEFO Date: JUNE 20, 2015 Manager's Signature: Conner Franklin by GSR Agency / Office / Phone: TDEC/DWR/JEFO Date: 6/23/15

(Note: This form can only be printed to an XPS document, then saved for later use.)