

Suspended Solids EFF. % % Removed	Ammonia		Nitrite		Nitrate		TKN		Total N		Total P		Ortho Phosphate		Alkalinity	
	INF.	EFF.	INF.	EFF.	INF.	EFF.	INF.	EFF.	INF.	EFF.	INF.	EFF.	INF.	EFF.	INF.	EFF.
Weekly	Mg/L		Mg/L		Mg/L		Mg/L		Mg/L		Mg/L		Mg/L		Mg/L	
1	99.71264368															
5	99.60691824	26.1	0.09	ND	0.03	0.15	3.05	49.6	1.03	49.8	4.11	5.71	2.15	1.87	132	21.7
6	99.46428571															
0	100															

Sludge Disposal Location:
Methuener Sewer District

Please return forms to:
DEEP - Water Bureau
ATTN: Municipal Wastewater Monitoring Coordinator
Municipal Facilities
79 Elm Street
Hartford, CT 06106-5127

Statement of Acknowledgement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Authorized Official:

Title:

Signature:

1005 BOSTON POST ROAD
MADISON, CT 06443



ENVIRONMENTAL
CONSULTING LABORATORIES, INC.

Phone 203-245-0568
Fax 203-318-0830
Connecticut Certification PH-0535
www.eclinonline.com

Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/24/2018
Sample Site: Final Effluent

Sample ID#: 119960
Sample Type: Wastewater
Sample Source: Bi-Annual Toxicity Monitoring
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Biological						
Aquatic Toxicity	See Attached	%	AQ	0	9/4/2018	KC
Chemical						
Ammonia as N	0.18	mg/L	ASTM D6919-03	0.05	9/10/2018	KC
Biological Oxygen Demand	5.38	mg/L	SM5210B	2	9/5/2018	KC
Cyanide-Amenable	ND	mg/L	EPA 335.4	0.01	9/12/2018	CET
Cyanide-Total	ND	mg/L	EPA 335.4	0.01	9/12/2018	CET
Nitrate as N	5.83	mg/L	EPA300.0	0.1	9/4/2018	JB
Nitrite as N	0.18	mg/L	EPA300.0	0.01	9/4/2018	JB
Phenols - Total	ND	mg/L	420.1	0.1	9/10/2018	CET
Phosphorous -Total as P	2.59	mg/L	EPA 200.7	0.04	9/11/2018	JM
Total Suspended Solids	8.00	mg/L	SM2540D	1	9/7/2018	JB
Alkalinity(1 - Initial)	35.0	mg/L	SM2320-B	20	9/14/2018	KC
Chlorine- Residual, Total(1 - Initial)	ND	mg/L	SM4500-Cl G	0.02	9/4/2018	JB
Hardness-Total(1 - Initial)	64.4	mg/L	EPA 200.7	1	9/10/2018	JM
Alkalinity(2 - Daph)	43.3	mg/L	SM2320-B	20	9/14/2018	KC
Chlorine- Residual, Total(2 - Daph)	ND	mg/L	SM4500-Cl G	0.02	9/6/2018	JB
Hardness-Total(2 - Daph)	61.7	mg/L	EPA 200.7	1	9/10/2018	JM
Alkalinity(3 - Fish)	38.7	mg/L	SM2320-B	20	9/14/2018	KC
Chlorine- Residual, Total(3 - Fish)	ND	mg/L	SM4500-Cl G	0.02	9/6/2018	JB
Hardness-Total(3 - Fish)	58.8	mg/L	EPA 200.7	1	9/10/2018	JM
Metals						
Aluminum	<0.05	mg/L	EPA 200.7	0.05	9/17/2018	JM
Antimony	<0.002	mg/L	EPA 200.8	0.002	9/18/2018	JM
Arsenic	ND	mg/L	EPA 200.8	0.002	9/18/2018	JM

ND = Not Detected

Report of Analysis

Name: Town of Deep River WPCF
 99 Winter Ave
 Deep River, CT 06417
 Attn: Pete Lewis
Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/24/2018
Sample Site: Final Effluent

Sample ID#: 119960
Sample Type: Wastewater
Sample Source: Bi-Annual Toxicity Monitoring
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Metals						
Beryllium	ND	mg/L	EPA 200.8	0.0002	9/18/2018	JM
Cadmium	<0.0002	mg/L	EPA 200.8	0.0002	9/18/2018	JM
Chromium	ND	mg/L	EPA 200.8	0.001	9/18/2018	JM
Chromium(Hexavalent)	ND	mg/L	SM3500-CrD	0.01	9/4/2018	KC
Copper	0.039	mg/L	EPA 200.8	0.002	9/18/2018	JM
Iron	0.04	mg/L	EPA 200.7	0.04	9/17/2018	JM
Lead	<0.001	mg/L	EPA 200.8	0.001	9/18/2018	JM
Mercury	ND	mg/L	EPA245.2	0.0002	9/20/2018	JM
Nickel	<0.002	mg/L	EPA 200.8	0.002	9/18/2018	JM
Selenium	<0.005	mg/L	EPA 200.8	0.005	9/18/2018	JM
Silver	ND	mg/L	EPA 200.8	0.002	9/18/2018	JM
Thallium	<0.005	mg/L	EPA 200.8	0.005	9/18/2018	JM
Zinc	0.04	mg/L	EPA 200.7	0.02	9/17/2018	JM
Physical						
Conductivity(1 - Initial)	485	umhos/cm	SM2510B	1	9/4/2018	JB
Conductivity(2 - Daph)	536	umhos/cm	SM2510B	1	9/6/2018	JB
Conductivity(3 - Fish)	511	umhos/cm	SM2510B	1	9/6/2018	JB


 DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

Comments CET = Complete Environmental Testing, Inc. CT PH-0116.

Environmental Consulting Laboratories, Inc.

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MADISON, CT 06443



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Connecticut Certification PH-0535
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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/18/2018
Sample Site: Sludge Press

Sample ID#: 119961
Sample Type: Solid
Sample Source: Bi-Annual Sludge Testing
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Total Fixed Solids	27.0	%	CALC	1	9/7/2018	JB
Total Solids	12.4	%	160.3	0	9/7/2018	JB
Total Volatile Solids	73.0	%	160.4	0	9/7/2018	JB
Metals						
Arsenic	ND	mg/L	SW6010A	0.002	9/13/2018	JM
Beryllium	ND	mg/L	SW6010A	0.0002	9/13/2018	JM
Cadmium	0.75	mg/L	SW6010A	0.0002	9/13/2018	JM
Chromium	10.2	mg/L	SW6010A	0.01	9/13/2018	JM
Copper	747	mg/L	SW6010A	0.02	9/13/2018	JM
Lead	24.3	mg/L	SW6010A	0.05	9/13/2018	JM
Mercury	0.54	mg/kg	SW6020B	0.2	9/13/2018	JM
Nickel	9.30	mg/L	SW6010A	0.04	9/13/2018	JM
Zinc	588	mg/L	SW6010A	0.02	9/13/2018	JM
Polychlorinatedbiphenols						
PCBs - Total	ND	mg/kg	EPA8082A	0.84	9/10/2018	CET


DAVID BARRIS, LABORATORY DIRECTOR

Comments Results reported on a dry weight basis. CET = Complete Environmental Testing, Inc. CT PH-0116.

ND = Not Detected

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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis

Sample ID#: 120248
Sample Type: Wastewater
Sample Source: Weekly Bacteria Testing
Sampler: Client

Sample Date: 9/18/2018
Receipt Date: 9/18/2018
Report Date: 9/20/2018
Sample Site: Effluent

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Biological						
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	9/18/2018	JB
Fecal Coliform Bacteria	<2	col/100ml	SM9222D	2	9/18/2018	JB


DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/11/2018
Receipt Date: 9/11/2018
Report Date: 9/18/2018
Sample Site: Influent

Sample ID#: 120122
Sample Type: Wastewater
Sample Source: Weekly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Biological Oxygen Demand	181	mg/L	SM5210B	2	9/12/2018	KC
Total Suspended Solids	348	mg/L	SM2540D	1	9/14/2018	JB

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ND = Not Detected

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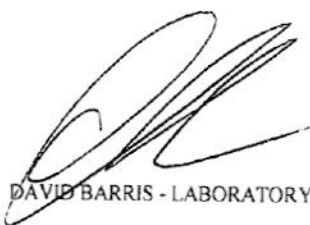
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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/11/2018
Receipt Date: 9/11/2018
Report Date: 9/18/2018
Sample Site: Effluent

Sample ID#: 120123
Sample Type: Wastewater
Sample Source: Weekly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Biological Oxygen Demand	3.92	mg/L	SM5210B	2	9/12/2018	KC
Total Suspended Solids	1.00	mg/L	SM2540D	1	9/14/2018	JB



DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

**1005 Boston Post Road
Madison, CT 06443**

'hone: 860-526-6044

John Elly

Influent/Effluent Testing

inquired by:	Date	Time	Received by:	Were Samples received within holding time? ☒ Y ☐ N Were Samples chilled upon receipt? ☒ Y ☐ N <i>9:00</i> Were Samples in appropriate containers? ☒ Y ☐ N If No Explain _____ Are containers broken/leaking? ☒ Y ☐ N Did Samples need to be split upon receipt? ☐ Y ☒ N Were Samples presented properly? ☒ Y ☐ N
inquired by:	Date	Time	Received by:	

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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/17/2018
Sample Site: Effluent

Sample ID#: 119956
Sample Type: Wastewater
Sample Source: Monthly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical Alkalinity(Grab)	21.7	mg/L	SM2320-B	20	9/14/2018	KC

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis

Sample ID#: 119955
Sample Type: Wastewater
Sample Source: Monthly
Sampler: Client

Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/17/2018
Sample Site: Influent

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical Alkalinity(Grab)	132	mg/L	SM2320-B	20	9/14/2018	KC

A handwritten signature in black ink, appearing to read 'David Barris', is written over the printed name.

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis

Sample ID#: 119954
Sample Type: Wastewater
Sample Source: Monthly
Sampler: Client

Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/13/2018
Sample Site: Effluent

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Ammonia as N	0.09	mg/L	ASTM D6919-03	0.05	9/10/2018	KC
Nitrate as N	3.05	mg/L	EPA300.0	0.1	9/4/2018	JB
Nitrite as N	0.03	mg/L	EPA300.0	0.01	9/4/2018	JB
Orthophosphate as P	1.87	mg/L	EPA300.0	0.02	9/4/2018	JB
Phosphorous -Total as P	2.15	mg/L	EPA 200.7	0.04	9/11/2018	JM
TKN as N	1.03	mg/L	4500NorgC	0.5	9/12/2018	KC
Total Nitrogen as N	4.11	mg/L	CALC	1	9/13/2018	KC


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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/13/2018
Sample Site: Influent

Sample ID#: 119953
Sample Type: Wastewater
Sample Source: Monthly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Ammonia as N	26.1	mg/L	ASTM D6919-03	0.05	9/10/2018	KC
Nitrate as N	0.15	mg/L	EPA300.0	0.1	9/4/2018	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	9/4/2018	JB
Orthophosphate as P	2.44	mg/L	EPA300.0	0.02	9/4/2018	JB
Phosphorous -Total as P	9.85	mg/L	EPA 200.7	0.04	9/11/2018	JM
TKN as N	49.6	mg/L	4500NorgC	0.5	9/12/2018	KC
Total Nitrogen as N	49.8	mg/L	CALC	1	9/13/2018	KC


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ND = Not Detected

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John Ely

7

Sample

52

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Received by: _____

Received by:	
If No Explain	
Are containers broken? Rejected?	

Were Samples received within holding time? Y/N
 Were Samples chilled upon receipt? Y/N
 Were Samples in appropriate containers? Y/N
 If No Explain _____

Are containers broken/leaking? **YN**
 Did Samples need to be split upon receipt? **Y** **N**
 Were Samples preserved properly? **Y** **N**

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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/11/2018
Receipt Date: 9/11/2018
Report Date: 9/13/2018
Sample Site: Effluent

Sample ID#: 120124
Sample Type: Wastewater
Sample Source: Weekly Bacteria Testing
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Biological						
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	9/11/2018	JB
Fecal Coliform Bacteria	<2	col/100ml	SM9222D	2	9/11/2018	JB


DAVID HARRIS - LABORATORY DIRECTOR

ND = Not Detected

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(203) 245-0568 Phone
(203) 318-0830 Fax

hone: 860-526-6044 Fax:

John Elly

El 5

acquired by:	Date	Time	Received by:	Were Samples received within holding time? Y N Were Samples chilled upon receipt? Y N Were Samples in appropriate containers? Y N If No Explain
[Signature]	9/11/18	9:46 AM	[Signature]	
acquired by:	Date	Time	Received by:	Are containers broken/leaking? Y N Did Samples need to be split upon receipt? Y N Were Samples presented properly? Y N
[Signature]				

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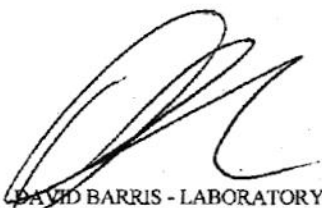
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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/11/2018
Sample Site: Influent

Sample ID#: 119957
Sample Type: Wastewater
Sample Source: Weekly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Biological Oxygen Demand	736	mg/L	SM5210B	2	9/5/2018	KC
Total Suspended Solids	1272	mg/L	SM2540D	1	9/7/2018	JA


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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/11/2018
Sample Site: Effluent

Sample ID#: 119958
Sample Type: Wastewater
Sample Source: Weekly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Biological Oxygen Demand	2.38	mg/L	SM5210B	2	9/5/2018	KC
Total Suspended Solids	5.00	mg/L	SM2540D	1	9/7/2018	JB


DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

John Elly

sample

Effluent

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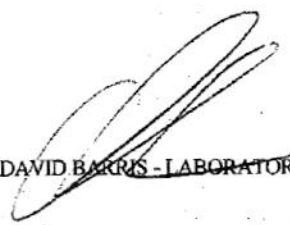
Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis

Sample ID#: 119959
Sample Type: Wastewater
Sample Source: Weekly Bacteria Testing
Sampler: Client

Sample Date: 9/4/2018
Receipt Date: 9/4/2018
Report Date: 9/7/2018
Sample Site: Effluent

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Biological						
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	9/4/2018	JB
Fecal Coliform Bacteria	<2	col/100ml	SM9222D	2	9/4/2018	JB


DAVID HARRIS - LABORATORY DIRECTOR

ND = Not Detected

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99 WINTER AVENUE
MADISON, CT 06443
Deep River, CT 06417

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P 860-526-6044
F 860-526-6049

Report of Analysis

Name:

Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
9/25/2018
9/25/2018
10/2/2018
Influent

Sample Date:

Receipt Date:

Report Date:

Sample Site:

Sample ID#:

120386

Sample Type:

Wastewater

Sample Source:

Weekly

Sampler:

Client

Parameter

Chemical

Biological Oxygen Demand
Total Suspended Solids

Sample Result	Units	Method	MDL	Analysis Date	Analyst
750	mg/L	SM5210B	2	9/26/2018	KC
1453	mg/L	SM2540D	1	9/28/2018	JB

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ND = Not Detected

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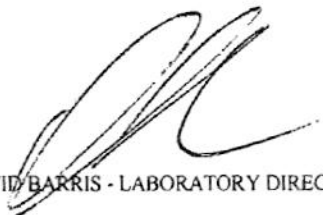
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Fax 203-318-0830
Connecticut Certification PH-0535
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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/25/2018
Receipt Date: 9/25/2018
Report Date: 10/2/2018
Sample Site: Effluent

Sample ID#: 120387
Sample Type: Wastewater
Sample Source: Weekly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Biological Oxygen Demand	2.63	mg/L	SM5210B	2	9/26/2018	KC
Total Suspended Solids	ND	mg/L	SM2540D	1	9/28/2018	JB


DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

(203) 245-0568 Phone
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Samplers Name: (Print)

Influent/Effluent Testing

Required Analysis

ECL Sample	I.D.#
1	1
2	2
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4	4
5	5
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78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

1111

Received by:

Were Samples received within holding time? ☒ Y ☐ N
Were Samples chilled upon receipt? ☒ Y ☐ N
Were Samples in appropriate containers? ☒ Y ☐ N
If No Explain _____

Are containers broken/leaking? Y/N

Were Samples presented properly? Y / N

© 1977 Y

1005 BOSTON POST ROAD
MADISON, CT 06443

ECL ENVIRONMENTAL
CONSULTING LABORATORIES, INC.

Phone 203-245-0568
Fax 203-318-0830
Connecticut Certification PH-0535
www.eclinconline.com

Report of Analysis

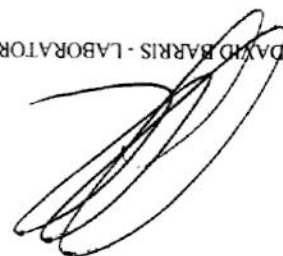
Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/18/2018
Receipt Date: 9/18/2018
Report Date: 9/25/2018
Sample Site: Effluent

Sample ID#: 120247
Sample Type: Wastewater
Sample Source: Weekly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Biological Oxygen Demand	3.18	mg/L	SM5210B	2	9/19/2018	KC
Total Suspended Solids	6.00	mg/L	SM2540D	1	9/21/2018	JB

ND = Not Detected

DAVID BARRIS - LABORATORY DIRECTOR



(203) 245-0568 Phone
(203) 348-0830 Fax

Required Analysis

John
Ellis

[illegible]

1005 BOSTON POST ROAD
MADISON, CT 06443

ENVIRONMENTAL
CONSULTING LABORATORIES, INC.



Phone 203-245-0568
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Connecticut Certification PH-0535
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Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/18/2018
Receipt Date: 9/18/2018
Report Date: 9/25/2018
Sample Site: Influent

Sample ID#: 120246
Sample Type: Wastewater
Sample Source: Weekly
Sampler: Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Chemical						
Biological Oxygen Demand	900	mg/L	SM5210B	2	9/19/2018	KC
Total Suspended Solids	1120	mg/L	SM2540D	1	9/21/2018	JB

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected



Report of Analysis

Name: Town of Deep River WPCF
99 Winter Ave
Deep River, CT 06417
Attn: Pete Lewis
Sample Date: 9/25/2018
Receipt Date: 9/25/2018
Report Date: 9/27/2018
Sample Site: Effluent

Biological

Enterococcus Bacteria
Fecal Coliform Bacteria

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	9/25/2018	JB
Fecal Coliform Bacteria	<2	col/100mL	SM9222D	2	9/25/2018	JB

Sample ID#: 120388
Sample Type: Wastewater
Sample Source: Weekly Bacteria Testing
Sampler: Client

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

(203) 245-0568 Phone
(203) 318-0830 Fax

Were Samples presented properly? Y ☒ N

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report - PART 1

Facility Name:	<u>Deep River WPCF</u>	NPDES ID:	<u>CT0101745</u>
Receiving Water:	<u>Connecticut River</u>	Waterbody ID:	<u>4000</u>
Sample Collection Date(s):	<u>9/4 9/3</u>		
Sample Collection Time:	FROM: <u>855</u> (AM/PM) TO: (AM/PM) <u>9 Am</u>		

TOXICITY TEST SUMMARY (PASS/FAIL)

CONTROL SAMPLE RESULTS (% Survival)

TEST SPECIES	REPLICATE 1	REPLICATE 2	REPLICATE 3
<i>Daphnia pulex</i>	100 %	100 %	100 %
<i>Pimephales promelas</i>	100 %	100 %	100 %

If less than 90% survival is recorded for one or more replicate controls, the test is invalid and an additional effluent sample must be collected and the test procedure repeated. The results for all samples must be submitted to the DEP.

EFFLUENT SAMPLE RESULTS

TEST SPECIES	MEAN % SURVIVAL
<i>Daphnia pulex</i>	100 %
<i>Pimephales promelas</i>	100 %

If the mean percent survival for either or both species is less than 90%, the effluent is determined toxic and an additional effluent sample must be collected and the test procedure repeated. The results for all samples must be submitted to the DEP.

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: John Elv Title: Operator

Signature: [Signature] Date: 9/25/18

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Deep River WPCF</u>		NPDES ID: <u>CT0101745</u>
Dilution Water: <u>Synthetic Lab</u>		Hardness: <u>45.2 mg/L</u>
Sample Collected On: <u>9/4/18</u> (date)	Received On: <u>9/4/2018</u> (date)	
Test Species: <u>Daphnia pulex</u>	Source: <u>ECL</u>	Age: <u>< 24 hr</u>
Test Duration: <u>48 hours</u> , Beginning: <u>3:55</u> (am/pm) On: <u>9/4/2018</u> (date)		

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
(%)	Hour	00	24	48	00	24	48	00	24	48	00	24	48
100 A		10	10	10	8.2	8.2	8.1	21	21	21	6.4	7.5	7.8
100 B		10	10	10	8.2	8.2	8.2	21	21	21	6.4	7.5	7.8
100 C		10	10	10	8.2	8.2	8.2	21	21	21	6.4	7.5	7.8
100 D		10	10	10	8.2	8.2	8.1	21	21	21	6.4	7.5	7.8
100 E		10	10	10	8.2	8.2	8.0	21	21	21	6.4	7.5	7.8
CONTROL 1		10	10	10	8.3	8.3	8.1	21	21	21	7.2	7.4	7.5
CONTROL 2		10	10	10	8.3	8.3	8.0	21	21	21	7.2	7.4	7.5
CONTROL 3		10	10	10	8.3	8.0	8.0	21	21	21	7.2	7.4	7.5
MEAN SAMPLE SURVIVAL (%)											1	2	3
[(A+B+C+D+E) / 5] X 10 = 100											100	100	100
								CONTROL SURVIVAL (%)					

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	<u>7/9/18</u>	<u>CuNCB</u>	<u>ECL</u>	<u>1.42 ppb</u>

COMMENTS

STATEMENT OF ACKNOWLEDGEMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the testing protocol described in EPA 600/4-90/027F and Sections 22a-430-3 and 22a-430-4 of the Regulations of Connecticut State Agencies except as noted above. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Laboratory Official: Kevin M. [Signature] Title: Supervisor
 Signature: Th. M. [Signature] Date: 9/4/2018

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Deep River WPCF</u>	NPDES ID: <u>CT0101745</u>
Dilution Water: <u>Synthetic lab</u>	Hardness: <u>145.2 mg/L</u>
Sample Collected On: <u>9/4/18</u> (date)	Received On: <u>9/4/2018</u> (date)
Test Species: <u>Pimephales promelas</u> Source: <u>ECL</u> Age: <u>10 days</u>	
Test Duration: <u>48</u> hours, Beginning: <u>3:55</u> (am/pm) On: <u>9/4/2018</u> (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
(%)	Hour	00	24	48	00	24	48	00	24	48	00	24	48
100 A		10	10	10	8.2	8.0	7.7	21	21	21	6.4	7.2	7.7
100 B		10	10	10	8.2	8.0	7.7	21	21	21	6.4	7.3	7.7
100 C		10	10	10	8.2	8.1	7.7	21	21	21	6.4	7.3	7.7
100 D		10	10	10	8.2	8.0	7.8	21	21	21	6.4	7.3	7.7
100 E		10	10	10	8.2	8.1	7.8	21	21	21	6.4	7.3	7.3
CONTROL 1		10	10	10	8.3	7.9	7.9	21	21	21	7.2	7.0	7.3
CONTROL 2		10	10	10	8.3	7.9	7.8	21	21	21	7.2	7.0	7.3
CONTROL 3		10	10	10	8.3	7.9	7.8	21	21	21	7.2	7.0	7.1
MEAN SAMPLE SURVIVAL (%)											1	2	3
[(A+B+C+D+E) / 5] X 10 = 100											100	100	100
								CONTROL SURVIVAL (%)					

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Pimephales promelas</i>	<u>7/1/18</u>	<u>CONU3</u>	<u>ECL</u>	<u>12.8 ppb</u>

COMMENTS

STATEMENT OF ACKNOWLEDGEMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the testing protocol described in EPA 600/4-90/027F and Sections 22a-430-3 and 22a-430-4 of the Regulations of Connecticut State Agencies except as noted above. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Laboratory Official: Kevin M. Doherty Title: Supervisor
 Signature: [Signature] Date: 9/4/2018

Supplemental Chemistry (part 2s)

Facility Name: <u>Deep River WPCF</u>	NPDES ID: <u>CT0101745</u>
Receiving Water: <u>Connecticut River</u>	Waterbody ID: <u>4000</u>
Sample Collection Date(s): <u>9/11/18</u>	
Sample Collection Time: FROM: <u>850</u> (AM/PM) TO: <u>855</u> (AM/PM)	

Effluent Sample

Parameter	Effluent Sample
	Initial (00)
pH	6.4
Conductivity	485
Alkalinity	35.0
Hardness	64.4
TRC	<0.02

100% Test Sample

Parameter	<i>Daphnia pulex</i>		<i>Pimephales promelas</i>	
	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity	485	536	485	511
Alkalinity	35.0	43.3	35.0	38.7
Hardness	64.4	61.7	64.4	58.8
TRC	<0.02		<0.02	

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>		<i>Pimephales promelas</i>	
	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity	164	217	164	176
Alkalinity	34.1	38.2	34.1	38.2
Hardness	45.2	46.2	45.2	44.7
TRC	<0.02		<0.02	

Laboratory Official:

Kevin M. Clark
2h m.

Title:

Supervisor

Signature:

Date:

9/11/2018

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Water Management: Aquatic Toxicity Monitoring Report - PART 3

NPDES Permit: CT0101745	Exp: 9/13/06	Phone ¹ : (860) 526-6044
Facility: Deep River WPCF	Contact: Peter Lewis	Phone ² :
Address: 99 Winter Ave.	Town: Deep River	Zip: 06417

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: John Ely Title: Operator

Signature: [Signature] Date: 9/24/18

Sample Date: 9/4/18 Sample Day's Flow: .165 MAR SEP (Circle one)

REPEAT MONTH:

FREQUENCY	MON/LOC	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Test	001 T	mg/L	BOD, 5 DAY		<u>3.38</u>
Each Test	001 T	mg/L	SUSPENDED SOLIDS, TOTAL		<u>8.00</u>
Each Test	001 T	mg/L	AMMONIA, Total		<u>0.18</u>
Each Test	001 T	mg/L	NITRITE, as N		<u>0.18</u>
Each Test	001 T	mg/L	NITRATE, as N		<u>3.83</u>
Each Test	001 T	mg/L	CYANIDE, Total		<u>ND<0.01</u>
Each Test	001 T	mg/L	CYANIDE, Amenable		<u>ND<0.01</u>
Each Test	001 T	mg/L	BERYLLIUM, Total		<u>ND<0.0002</u>
Each Test	001 T	mg/L	ARSENIC, Total	0.005 mg/L	<u>ND<0.002</u>
Each Test	001 T	mg/L	CADMIUM, Total		<u><0.0002</u>
Each Test	001 T	mg/L	CHROMIUM, Hexavalent		<u>ND<0.01</u>

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MON/LOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Test	001 T	mg/L	CHROMIUM, Total		ND<0.001
Each Test	001 T	mg/L	COPPER, Total		0.039
Each Test	001 T	mg/L	LEAD, Total		<0.001
Each Test	001 T	mg/L	THALLIUM, Total		<0.005
Each Test	001 T	mg/L	NICKEL, Total		<0.002
Each Test	001 T	mg/L	SILVER, Total		ND<0.002
Each Test	001 T	mg/L	ZINC, Total		0.04
Each Test	001 T	mg/L	ANTIMONY, Total		<0.002
Each Test	001 T	mg/L	SELENIUM, Total		<0.005
Each Test	001 T	mg/L	PHENOLS		ND<0.10
Each Test	001 T	mg/L	MERCURY, Total	0.0002 mg/L	ND<0.0002

CT PH-0535

Testing Laboratory:

Environmental Consulting Labs

Signature:



Date:

September 24, 2018

FOR OFFICIAL USE ONLY:

AQUATIC TOXICITY: *Daphnia pulex*

TGA3D

AQUATIC TOXICITY: *Pimephales promelas*

TGA6C

AQUATIC TOXICITY MONITORING REPORT : PART 2

Facility Name : Deep River NPDES ID: _____
 Dilution Water Source: _____ Hardness: 50 mg/L
 Sample Collected On: _____ (date) Sample Received On: _____ (date)

Test Species: Daphnia pulex Source: ECL Hatchery Age: <24 hrs.
 Test Duration: 48 Hours, Beginning: 3:55 AM/PM On: 9/4/18 (date)

EFFLUENT DILUTION %	Hour	Number of Organisms Surviving					Dissolved Oxygen (mg/L)					Temperature (°C)					pH				
		00	24	48	72	96	00	24	48	72	96	00	24	48	72	96	00	24	48	72	96
100% A		10	10	5			8.2	8.2	8.1			21	21	21			7.4	7.5	7.8		
100% B			10	10					8.2										7.8		
100% C			10	10					8.2										7.8		
100% D			10	10					8.1										7.8		
100% E		✓	10	10			✓		8.0			✓	↓	↓	↓		↓		7.8		
CONTROL 1 (0%)																					
CONTROL 2 (0%)																					
CONTROL 3 (0%)																					

MEAN SAMPLE SURVIVAL (%)	CONTROL SURVIVAL (%)	1	2	3
$[(A+B+C+D+E) / 5] * 10 =$ %		%	%	%

Test Species: Pimephales promelas Source: ECL Hatchery Age: 10 days
 Test Duration: 48 Hours, Beginning: 3:55 AM/PM On: 9/4/18 (date)

EFFLUENT DILUTION %	Hour	Number of Organisms Surviving					Dissolved Oxygen (mg/L)					Temperature (°C)					pH				
		00	24	48	72	96	00	24	48	72	96	00	24	48	72	96	00	24	48	72	96
100% A		10	10	10			8.2	8.0	7.7			21	21	21			7.4	7.2	7.7		
100% B			10	10				8.0	7.7									7.3	7.7		
100% C			10	10				8.1	7.7									7.3	7.7		
100% D			10	10				8.0	7.8									7.3	7.7		
100% E		✓	10	10			✓	8.1	7.8			✓	↓	↓	↓		✓	7.3	7.7		
CONTROL 1 (0%)																					
CONTROL 2 (0%)																					
CONTROL 3 (0%)																					

MEAN SAMPLE SURVIVAL (%)	CONTROL SURVIVAL (%)	1	2	3
$[(A+B+C+D+E) / 5] * 10 =$ %		%	%	%

Supplemental Chemistry (part 2s)

Facility Name: Deep River WPCF NPDES ID: CT0101745
 Receiving Water: CT River Waterbody ID: _____
 Sample Collection Date(s): 9/4 9/3
 Sample Collection Time: FROM: 855 (AM/PM) TO: 9:00 (AM/PM)

Effluent Sample

Parameter	Effluent Sample	
	Hours	Initial (00)
pH		
Conductivity		
Alkalinity		
Hardness		
TRC		

100% Test Sample

Parameter	Hours	<i>Daphnia pulex</i>		<i>Pimephales promelas</i>	
		Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity		485	536	485	511
Alkalinity					
Hardness					
TRC		nd		nd	

0% Test Sample (Control)

Parameter	Hours	<i>Daphnia pulex</i>		<i>Pimephales promelas</i>	
		Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness					
TRC					

Laboratory
Official: _____

Signature: _____

Title: _____

Date: _____



Connecticut DEP

- Manage Access Requests
- Search All DMRs & CORs Permits Users
- Unscheduled DMRs Unscheduled DMRs
- Import DMRs Perform Import Check Results
- Update NODI Check Results
- View Permits Users DMR Signing Status
- Download Blank DMR Form

Signing Process Confirmation - CDX Activity ID: _aa542584-e82a-429b-b0ee-eb820eca1f9c

Your DMRs are undergoing the Signing Process

Permit ID	Facility	Permitted Feature	Discharge #	Discharge Description	Monitoring Period End Date	DMR Due Date	View Copy of Submission
CT0101745	DEEP RIVER WPCF	001	001-1	SAINTJAY SEWAGE	09/30/18	10/15/18	

©2008 NetDMR

Date 9 / 30 / 18 Day Sunday Time 8 Temp 52°
Precipitation 0 Weather nice

LAB

Thickened Sludge — / 6.7 W.A.S 6.2 / 4.4

Ops Building

Heating Fuel _____ Gallons Generator Hours _____ Block Heater _____
Oil and Coolant _____ Battery Condition _____ Run For Hour _____
Run Trailer Mounted Generators _____ Boiler Temp _____ Boiler Pressure _____

Lower Pump Station

Pumped Flow 8809490 Parshall Flume ~~427~~ 22657740
Lead 3 Lag 2 2nd Lag 1 Wet Well Level 2.8 Temp 68°
Heat no Grinder ✓ Hydraulic Level ✓

Gallons 194360 Max 273 Min 39 Avg 134

SBR Building

UV Operation 95 % Pump Number 1 Clean Water Screens fed
Air Valves ✓ Slide Gates ✓ SBR Blowers 1 + 2 Speed High low
Standby 3 W.A.S Blowers 5 Speed High
Waste Cycle 301 0 min Waster Cycle 302 0 min

Lab Work

Sampler Initials _____ Analyst Initials _____
Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent								XXXX	
301								XXXX	
302								XXXX	
Effluent									

Sample	ML.	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.	0.			
302	25	0.	0.			
Effluent	1000	0.	0.			

Date 9/29/18 Day Saturday Time 8 Temp 60
Precipitation 0 Weather nice

LAB

Thickened Sludge — / 6.7 W.A.S 5.2 / 4.3

Ops Building

Heating Fuel _____ Gallons Generator Hours _____ Block Heater _____
Oil and Coolant _____ Battery Condition _____ Run For Hour _____
Run Trailer Mounted Generators _____ Boiler Temp _____ Boiler Pressure _____

Lower Pump Station

Pumped Flow 8782096 Parshall Flume 22310440
Lead 3 Lag 2 2nd Lag 1 Wet Well Level 2.6 Temp 70°
Heat no Grinder ✓ Hydraulic Level ✓

Gallons 199630 Max 291 Min 46 Avg 138

SBR Building

UV Operation 96 % Pump Number 1 Clean Water Screens Ted
Air Valves ✓ Slide Gates ✓ SBR Blowers 1+2 Speed High low
Standby 3 W.A.S Blowers 5 Speed high
Waste Cycle 301 0 min Waster Cycle 302 0 min

Lab Work

Sampler Initials _____ Analyst Initials _____
Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent								XXXX	
301								XXXX	
302								XXXX	
Effluent									

Sample	ML	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.	0.			
302	25	0.	0.			
Effluent	1000	0.	0.			

Date 9 / 28 / 18 Day Friday Time 6AM Temp 62°
Precipitation .25 Weather Rain

LAB

Thickened Sludge — / 8 W.A.S. 7 / 7

Ops Building

Heating Fuel 2840 Gallons Generator Hours 940 Block Heater ✓

Oil and Coolant ✓ Battery Condition ✓ Run For Hour 10

Run Trailer Mounted Generators 10 Boiler Temp 164 Boiler Pressure 10

Lower Pump Station

Pumped Flow 8745884 Parshall Flume 2191423

Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.1 Temp 68°

Heat 10 Grinder ✓ Hydraulic Level ✓

Gallons 197250 Max 274 Min 61 Avg 167

SBR Building

UV Operation 94 % Pump Number 1 Clean Water Screens fed

Air Valves ✓ Slide Gates ✓ SBR Blowers 1 to 2 Speed High + Low

Standby 3 W.A.S Blowers 5 Speed High

Waste Cycle 301 0 min Waster Cycle 302 0 min

Lab Work

Sampler Initials JE Analyst Initials JE

Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	6:50	6:55	66°	6.9	2.4	1.9	80	XXXX	220
301	8	8:05	68°	6.9	4.1	4.5	230	XXXX	190
302	6	6:05	68°	6.7	3.1	3.4	300	XXXX	170
Effluent	6:40	6:45	68°	6.8	7.0	7.2	0	1.4	160

Sample	ML	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.3819	0.4517	2792		
302	25	0.3914	0.4471	2228		
Effluent	1000	0.	0.			

Date 9/27/18 Day Thursday Time 6AM Temp 64°
Precipitation .75 Weather nice

LAB

Thickened Sludge — / 8 W.A.S 6 / 6

Ops Building

Heating Fuel 2890 Gallons Generator Hours 940 Block Heater ✓
Oil and Coolant ✓ Battery Condition ✓ Run For Hour no
Run Trailer Mounted Generators no Boiler Temp 160 Boiler Pressure 10

Lower Pump Station

Pumped Flow 8711613 Parshall Flume 21563010
Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.7 Temp 68°
Heat no Grinder ✓ Hydraulic Level ✓

Gallons 209470 Max 241 Min 68 Avg 145

SBR Building

UV Operation 96 % Pump Number 1 Clean Water Screens Ted
Air Valves ✓ Slide Gates ✓ SBR Blowers 1 Speed High 2 is being serviced
Standby 3 W.A.S Blowers 5 Speed High
Waste Cycle 301 0 min Waster Cycle 302 0 min

Lab Work

Sampler Initials JE Analyst Initials JE
Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	7:10	7:15	67°	6.6	1.5	1.6	10	XXXX	210
301	7:30	7:35	69°	6.7	1.2	1.7	200	XXXX	180
302	220	225	68°	6.8	1.3	1.7	2160	XXXX	190
Effluent	7	7:05	70	7.1	6.9	7.2	0	1.0	180

Sample	ML.	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0. 3897	0. 4508	2444		
302	25	0. 3912	0. 4567	2620		
Effluent	1000	0.	0.			

Date 9/26/18 Day Wednesday Time 6AM Temp 60
 Precipitation 6.5" Weather Rain

LAB

Thickened Sludge — / — W.A.S 14 / 14

Ops Building

Heating Fuel 2890 Gallons Generator Hours 940 Block Heater ✓
 Oil and Coolant ✓ Battery Condition ✓ Run For Hour no
 Run Trailer Mounted Generators ✓ no Boiler Temp 170 Boiler Pressure 16

Lower Pump Station

Pumped Flow 8511273 Parshall Flume 21371420
 Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.9 Temp 69°
 Heat ✓ Grinder ✓ Hydraulic Level ✓

Gallons 208460 Max 314 Min 71 Avg 144

SBR Building

UV Operation 96 % Pump Number 1 Clean Water Screens ted
 Air Valves ✓ Slide Gates ✓ SBR Blowers 1+2 Speed 3 High low
 Standby 3 W.A.S Blowers 5 Speed to High
 Waste Cycle 301 0 min Waster Cycle 302 0 min

Lab Work

Sampler Initials JE Analyst Initials JE
 Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	6	6:10	64°	6.7	.1	.4	36	XXXX	270
301	7:30	7:35	70°	6.8	3.6	3.8	210	XXXX	180
302	9:30	9:35	70°	6.7	2.2	3.7	200	XXXX	170
Effluent	6:05	6:15	70°	7.0	7.0	7.1	0	1.6	150

Sample	ML.	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0. 3842	0. 4462	2480		
302	25	0. 3937	0. 4519	2328		
Effluent	1000	0.	0.			

Date 9/25/18 Day Tuesday Time 6AM Temp 57°
Precipitation 0 Weather Rain on way

LAB

Thickened Sludge — / 3.8 W.A.S 4 / 4

Ops Building

Heating Fuel 2890 Gallons Generator Hours 940 Block Heater ✓
Oil and Coolant ✓ Battery Condition ✓ Run For Hour no
Run Trailer Mounted Generators no Boiler Temp 164 Boiler Pressure 10

Lower Pump Station

Pumped Flow 8633166 Parshall Flume 20709710
Lead 3 Lag 2 2nd Lag 1 Wet Well Level 2.9 Temp 70°
Heat ✓ Grinder ✓ Hydraulic Level ✓

Gallons 199090 Max 223 Min 61 Avg 108

SBR Building

UV Operation 95 % Pump Number 1 Clean Water Screens red
Air Valves ✓ Slide Gates ✓ SBR Blowers 1 + 2 Speed High low
Standby 3 W.A.S Blowers 5 Speed High
Waste Cycle 301 5 min Waster Cycle 302 5 min

Lab Work

Sampler Initials SC Analyst Initials JE
Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	6:40	6:45	67°	6.8	0.5	0.9	50	XXXX	270
301	7:30	7:35	70°	6.8	4.9	5.7	200	XXXX	200
302	555	6	70°	6.7	3.7	4.1	200	XXXX	220
Effluent	6:30	6:35	70°	7.0	6.6	7.1	0	1.6	180

Sample	ML	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.3909	0.4552	2572		
302	25	0.3919	0.4655	2944		
Effluent	1000	0.	0.			

Date 9/24/18 Day monday Time 6AM Temp 64°
Precipitation 0 Weather nice

LAB

Thickened Sludge — / 3.6 W.A.S 8 / 0

Ops Building

Heating Fuel 2890 Gallons Generator Hours 940 Block Heater ✓
Oil and Coolant ✓ Battery Condition ✓ Run For Hour no
Run Trailer Mounted Generators no Boiler Temp 164 Boiler Pressure 10

Lower Pump Station

Pumped Flow 8614379 Parshall Flume 20520560
Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.3 Temp 74°
Heat ✓ Grinder ✓ Hydraulic Level ✓

Gallons 189800 Max 271 Min 54 Avg 132

SBR Building

UV Operation 94 % Pump Number 1 Clean Water Screens fed
Air Valves ✓ Slide Gates ✓ SBR Blowers 1' + 2 Speed High + low
Standby 3 W.A.S Blowers 4 Speed low
Waste Cycle 301 0 min Waster Cycle 302 0 min

Lab Work

Sampler Initials JE Analyst Initials JE
Compositor Date and Time On 9/24/18 9AM Compositor Date and Time Off 9/25/18 9:05

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	<u>8</u>	<u>8:05</u>	<u>66°</u>	<u>6.7</u>	<u>1.4</u>	<u>1.7</u>	<u>50</u>	<u>XXXX</u>	<u>260</u>
301	<u>730</u>	<u>7:35</u>	<u>72°</u>	<u>6.8</u>	<u>3.9</u>	<u>5.4</u>	<u>260</u>	<u>XXXX</u>	<u>200</u>
302	<u>6</u>	<u>6:05</u>	<u>71°</u>	<u>6.7</u>	<u>4.7</u>	<u>5.6</u>	<u>220</u>	<u>XXXX</u>	<u>200</u>
Effluent	<u>7:50</u>	<u>7:55</u>	<u>70°</u>	<u>7.0</u>	<u>7.7</u>	<u>7.8</u>	<u>0</u>	<u>1.2</u>	<u>190</u>

Sample	ML.	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	<u>200</u>	<u>0.</u>	<u>0.</u>			
301	<u>25</u>	<u>0.3946</u>	<u>0.4874</u>	<u>3712</u>		
302	<u>25</u>	<u>0.3918</u>	<u>0.4741</u>	<u>3292</u>		
Effluent	<u>1000</u>	<u>0.</u>	<u>0.</u>			

Date 9/23/18 Day Sunday Time 730 Temp _____
Precipitation _____ Weather _____

LAB

Thickened Sludge _____/_____ W.A.S. _____/_____

Ops Building

Heating Fuel _____ Gallons Generator Hours _____ Block Heater _____

Oil and Coolant _____ Battery Condition _____ Run For Hour _____

Run Trailer Mounted Generators _____ Boiler Temp _____ Boiler Pressure _____

Lower Pump Station

Pumped Flow _____ Parshall Flume _____

Lead _____ Lag _____ 2nd Lag _____ Wet Well Level _____ Temp _____

Heat _____ Grinder _____ Hydraulic Level _____

Gallons 187070 Max 271 Min 59 Avg 129

SBR Building

UV Operation 96 % Pump Number 1 Clean Water Screens ✓

Air Valves ✓ Slide Gates ✓ SBR Blowers 1+2 Speed High + low

Standby 3 W.A.S. Blowers 4 Speed low

Waste Cycle 301 — min Waster Cycle 302 — min off

Lab Work

Sampler Initials _____ Analyst Initials _____

Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent								XXXX	
301								XXXX	
302								XXXX	
Effluent									

Sample	ML.	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.	0.			
302	25	0.	0.			
Effluent	1000	0.	0.			

Date 9/22/18 Day Saturday Time _____ Temp _____
Precipitation _____ Weather _____

LAB

Thickened Sludge _____/_____
W.A.S. _____/_____

Ops Building

Heating Fuel _____ Gallons Generator Hours _____ Block Heater _____

Oil and Coolant _____ Battery Condition _____ Run For Hour _____

Run Trailer Mounted Generators _____ Boiler Temp _____ Boiler Pressure _____

Lower Pump Station

Pumped Flow _____ Parshall Flume _____

Lead _____ Lag _____ 2nd Lag _____ Wet Well Level _____ Temp _____

Heat _____ Grinder _____ Hydraulic Level _____

Gallons 189900 Max 262 Min 49 Avg 130

SBR Building

UV Operation 94 % Pump Number 1 Clean Water Screens ✓

Air Valves ✓ Slide Gates ✓ SBR Blowers 1+2 Speed High + low

Standby 3 W.A.S Blowers 4 Speed low

Waste Cycle 301 5 min Waster/Cycle 302 5 min

Lab Work

Sampler Initials _____ Analyst Initials _____

Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent								XXXX	
301								XXXX	
302								XXXX	
Effluent									

Sample	ML	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.	0.			
302	25	0.	0.			
Effluent	1000	0.	0.			

Date 9/21/18 Day Friday Time 6AM Temp 64°
 Precipitation 0 Weather Nice

LAB

Thickened Sludge — / 4.6 W.A.S. 6 / —

Ops Building

Heating Fuel 2920 Gallons Generator Hours 940 Block Heater ✓
 Oil and Coolant ✓ Battery Condition ✓ Run For Hour no
 Run Trailer Mounted Generators ✓ Boiler Temp 164 Boiler Pressure 12

Lower Pump Station

Pumped Flow 8561928 Parshall Flume 19887030
 Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.2 Temp 71°
 Heat no Grinder ✓ Hydraulic Level ✓

Gallons 197070 Max 278 Min 46 Avg 136

SBR Building

UV Operation 95 % Pump Number 1 Clean Water Screens red
 Air Valves ✓ Slide Gates ✓ SBR Blowers 112 Speed High 100
 Standby 3 W.A.S Blowers 4 Speed low
 Waste Cycle 301 5 min Waster Cycle 302 5 min

Lab Work

Sampler Initials JE Analyst Initials JE
 Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	8:20	8:35	67°	6.7	1.1	1.4	50	XXXX	310
301	7:30	7:35	72°	6.8	4.6	5.0	220	XXXX	250
302	6:55	6:00	72°	6.7	4.9	5.7	200	XXXX	240
Effluent	8:25	8:30	73°	7.1	6.8	7.4	0	1.9	190

Sample	ML	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.3907	0.4738	3324		
302	25	0.3865	0.4680	3260		
Effluent	1000	0.	0.			

Date 9/20/18 Day Thursday Time 6AM Temp 66°
 Precipitation 0 Weather nice

LAB

Thickened Sludge — / 4.1 W.A.S. 10 / —

Ops Building

Heating Fuel 2940 Gallons Generator Hours 940 Block Heater ✓
 Oil and Coolant ✓ Battery Condition ✓ Run For Hour no
 Run Trailer Mounted Generators no Boiler Temp 170 Boiler Pressure 12

Lower Pump Station

Pumped Flow 8540201 Parshall Flume 19665630
 Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.0 Temp 74°
 Heat ✓ Grinder ✓ Hydraulic Level ✓

Gallons 191900 Max 276 Min 66 Avg 131

SBR Building

UV Operation 94 % Pump Number 1 Clean Water Screens fed
 Air Valves ✓ Slide Gates ✓ SBR Blowers 1 + 2 Speed High - low
 Standby 3 W.A.S Blowers 4 Speed low
 Waste Cycle 301 5 min Waster Cycle 302 5 min

Lab Work

Sampler Initials JE Analyst Initials JE
 Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	7:15	7:30	67°	6.7	1.2	1.5	40	XXXX	260
301	7:30	7:35	73°	6.9	4.4	5.8	280	XXXX	250
302	555	6	73°	6.8	4.1	4.3	260	XXXX	240
Effluent	7:20	7:25	73°	7.1	6.8	7.1	0	1.4	190

Sample	ML	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.3894	0.4676	3128		
302	25	0.3925	0.4626	2804		
Effluent	1000	0.	0.			

Date 9/19/18 Day Wednesday Time 6 AM Temp 68°
Precipitation 3.5 Weather Humid

LAB

Thickened Sludge — / 4 W.A.S. 6 / 0

Ops Building

Heating Fuel 2960 Gallons Generator Hours 940 Block Heater ✓
Oil and Coolant ✓ Battery Condition ✓ Run For Hour 10
Run Trailer Mounted Generators no Boiler Temp 164 Boiler Pressure 10

Lower Pump Station

Pumped Flow 8520625 Parshall Flume 19459800
Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.4 Temp 74°
Heat ✓ Grinder ✓ Hydraulic Level ✓

Gallons 190120 Max 349 Min 41 Avg 132

SBR Building

UV Operation 96 % Pump Number 1 Clean Water Screens fed
Air Valves ✓ Slide Gates ✓ SBR Blowers 1+2 Speed High-low
Standby 3 W.A.S Blowers 4 Speed low
Waste Cycle 301 0 min Waster Cycle 302 0 min

Lab Work

Sampler Initials JE Analyst Initials JE

Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	7:05	7:20	66°	6.7	1.4	1.7	44	XXXX	290
301	730	735	72°	6.7	3.7	4.1	260	XXXX	260
302	6	605	73°	7.0	3.9	4.2	260	XXXX	240
Effluent	7:10	7:15	73	7.1	5.8	6.4	0	1.9	210

Sample	ML.	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.3884	0.4701	3268		
302	25	0.3914	0.4638	2896		
Effluent	1000	0.	0.			

Date 9/18/18 Day Tuesday Time 6 AM Temp 70
Precipitation 0 Weather Rainy

LAB

Thickened Sludge — / 5 W.A.S. 7 / 4

Ops Building

Heating Fuel 2960 Gallons Generator Hours 940 Block Heater ✓
Oil and Coolant ✓ Battery Condition ✓ Run For Hour no
Run Trailer Mounted Generators no Boiler Temp 164 Boiler Pressure 10

Lower Pump Station

Pumped Flow 8498731 Parshall Flume 19239940
Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.4 Temp 74°
Heat no Grinder ✓ Hydraulic Level ✓

Gallons 177000 Max 257 Min 44 Avg 123

SBR Building

UV Operation 96 % Pump Number 1 Clean Water Screens fed
Air Valves ✓ Slide Gates ✓ SBR Blowers 142 Speed High - low
Standby 2 W.A.S Blowers 4 Speed low
Waste Cycle 301 — min Waster Cycle 302 — min

Lab Work

Sampler Initials JC Analyst Initials JE
Compositor Date and Time On — Compositor Date and Time Off —

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	7:55	8	68°	6.9	1.7	2.9	140	XXXX	380
301	7:40	7:45	72°	6.8	3.7	4.0	250	XXXX	240
302	555	6 AM	73°	6.7	4.9	5.4	240	XXXX	230
Effluent	7:50	8:05	73°	7.1	6.9	7	0	2.4	240

Sample	ML	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.3918	0.4750	3328		
302	25	0.3944	0.4617	2692		
Effluent	1000	0.	0.			

Date 9/17/18 Day Monday Time 5:30 Temp 67°
Precipitation 0 Weather nice

LAB

Thickened Sludge — / 2 W.A.S. 9 / 4 MUSE COMING

Ops Building

Heating Fuel 2940 Gallons Generator Hours 940 Block Heater ✓

Oil and Coolant ✓ Battery Condition ✓ Run For Hour 70

Run Trailer Mounted Generators no Boiler Temp 164 Boiler Pressure 12

Lower Pump Station

Pumped Flow 8481782 Parshall Flume 19056520

Lead 3 Lag 2 2nd Lag 1 Wet Well Level 3.4 Temp 71°

Heat no Grinder ✓ Hydraulic Level ✓

Gallons 181540 Max 275 Min 46 Avg 126

SBR Building

UV Operation 94 % Pump Number 1 Clean Water Screens fed

Air Valves ✓ Slide Gates L SBR Blowers 1+2 Speed High - low

Standby 3 W.A.S Blowers 4 Speed Low

Waste Cycle 301 — min Waster Cycle 302 — min

Lab Work

Sampler Initials JE Analyst Initials JE

Compositor Date and Time On 9/17 @ 9AM Compositor Date and Time Off 9/18 @ 9:10

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent	655	705	66°	6.7	0.1	1.7	60	XXXX	290
301	745	750	73°	6.9	3.8	4.6	260	XXXX	210
302	6	605	73°	6.7	4.9	5.6	240	XXXX	220
Effluent	650	7	73°	6.8	7.1	7.6	0	1.6	220

Sample	ML	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.3917	0.4539	2448		
302	25	0.3897	0.4474	2308		
Effluent	1000	0.	0.			

chart no changed over weekend

Date 09/16/18 Day Sunday Time 8:00 Temp 76°
Precipitation 0.1 Weather Sunny day

LAB

Thickened Sludge 0.1 / 7.3 W.A.S. 9.1 / 4.9

Ops Building

Heating Fuel _____ Gallons Generator Hours _____ Block Heater _____
Oil and Coolant _____ Battery Condition _____ Run For Hour _____
Run Trailer Mounted Generators _____ Boiler Temp _____ Boiler Pressure _____

Lower Pump Station

Pumped Flow 8467974 Parshall Flume 18881620
Lead 3 Lag 2 2nd Lag 1 Wet Well Level 2.8 Temp 80°
Heat no Grinder OK Hydraulic Level OK

Gallons 84186030 Max 251 Min 48 Avg 128

SBR Building

UV Operation 95 % Pump Number 1 Clean Water Screens cleaned
Air Valves OK Slide Gates OK SBR Blowers 1+2 Speed low
Standby 3 W.A.S Blowers 4 Speed high
Waste Cycle 301 _____ min Waster Cycle 302 _____ min

Lab Work

Sampler Initials TF.2 Analyst Initials TF.2
Compositor Date and Time On _____ Compositor Date and Time Off _____

Sample	Collected	Analyzed	Temp	pH	DO L	DO H	Settle	Turb	TDS
Influent								XXXX	
301								XXXX	
302								XXXX	
Effluent									

Sample	ML.	Tare Wt.	Gross Wt.	Sus. Sol MG/L	Ash Wt.	% Volatile S.S
Influent	200	0.	0.			
301	25	0.	0.			
302	25	0.	0.			
Effluent	1000	0.	0.			