



1975 W. 100 N., Suite C
Angola, IN 46703
Phone: 260 624 2401
Website: www.sandhillenviro.com

October 15, 2019

Steuben County Lakes Council
Pete Hippensteel
207 S Wyne St.
Angola, IN 46703

RE: Water Testing

Dear Pete:

Sandhill Environmental Services, LLC received 15 samples for the analyses presented in the following report.
In accordance with your instructions, Sandhill conducted the analysis shown on the following pages on the samples submitted. Unless otherwise noted, all analysis was conducted using approved methodologies from the EPA, Standard Methods, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. Any reports containing subcontracted testing will be at the end of this report.

Certifications/Accreditation: IN# C-76-01 IN# M-76-09

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Natalie McGill

Natalie McGill
Laboratory Director
1975 W. 100 N., Suite C
Angola, IN 46703



1975 West 100 North, Ste. C
Angola, IN 46703
Phone: 260-624-2401
www.sandhillenviro.com

ANALYTICAL REPORT

Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 450 S 800 E

Collection Date: 10/09/2019

Lab ID #: 35371

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	372.0	MPN/100 mL	1.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.125	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



1975 West 100 North, Ste. C
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Phone: 260-624-2401
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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 600E N

Collection Date: 10/09/2019

Lab ID #: 35372

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	321.4	MPN/100 mL	2.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.166	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



1975 West 100 North, Ste. C
Angola, IN 46703
Phone: 260-624-2401
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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 600 EM

Collection Date: 10/09/2019

Lab ID #: 35373

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	132.6	MPN/100 mL	2.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.109	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



1975 West 100 North, Ste. C
Angola, IN 46703
Phone: 260-624-2401
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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 600E S

Collection Date: 10/09/2019

Lab ID #: 35374

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	334.0	MPN/100 mL	2.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.131	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 500S

Collection Date: 10/09/2019

Lab ID #: 35375

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	428.5	MPN/100 mL	2.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.126	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 550E S

Collection Date: 10/09/2019

Lab ID #: 35376

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	279.2	MPN/100 mL	2.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.134	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



1975 West 100 North, Ste. C
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Phone: 260-624-2401
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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 450 S

Collection Date: 10/09/2019

Lab ID #: 35377

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	391.2	MPN/100 mL	3.3		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.097	mg/L	0.022		10/09/2019, 17:25



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ANALYTICAL REPORT

Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 427

Collection Date: 10/09/2019

Lab ID #: 35378

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	688.0	MPN/100 mL	3.3		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.113	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 850 E

Collection Date: 10/09/2019

Lab ID #: 35379

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	496.2	MPN/100 mL	3.3		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.103	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



1975 West 100 North, Ste. C
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Phone: 260-624-2401
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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 400 S

Collection Date: 10/09/2019

Lab ID #: 35380

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	551.0	MPN/100 mL	3.3		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.093	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



1975 West 100 North, Ste. C
Angola, IN 46703
Phone: 260-624-2401
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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 300 S

Collection Date: 10/09/2019

Lab ID #: 35381

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	727.0	MPN/100 mL	2.1		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.082	mg/L	0.022		10/09/2019, 17:25



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ANALYTICAL REPORT

Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 200 S

Collection Date: 10/09/2019

Lab ID #: 35382

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	262.8	MPN/100 mL	2.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.086	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



1975 West 100 North, Ste. C
Angola, IN 46703
Phone: 260-624-2401
www.sandhillenviro.com

Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: SR 1

Collection Date: 10/09/2019

Lab ID #: 35383

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	261.3	MPN/100 mL	1.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.113	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



1975 West 100 North, Ste. C
Angola, IN 46703
Phone: 260-624-2401
www.sandhillenviro.com

Client: Steuben County Lakes Council

Attn: Pete Hippensteel

Key:

DL

Detection Limit

PL

Permit Limit

SUB (as analyst)

work sub-contracted by
Sandhill

Sample ID: 550E N

Collection Date: 10/09/2019

Lab ID #: 35384

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	387.0	MPN/100 mL	1.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.190	mg/L	0.022		10/09/2019, 17:25

ANALYTICAL REPORT



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Angola, IN 46703
Phone: 260-624-2401
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Client: Steuben County Lakes Council
Attn: Pete Hippensteel

Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 600 EWN

Collection Date: 10/09/2019

Lab ID #: 35385

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	1632.8	MPN/100 mL	1.0		10/09/2019, 15:30
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.197	mg/L	0.022		10/09/2019, 17:25

CHAIN OF CUSTODY RECORD



Sandhill Environmental Services, LLC.

1975 West 100 North, Ste. C
Angola, IN 46703
260-624-2401

Turn Time:

Standard

Rush- Report by Date: _____

Rush turn times will incur a surcharge and must be pre-approved by the lab.

Matrix Code:

DW-Drinking Water

WW-Wastewater

STW- Stormwater

SW- Surface water

Client Information		Billing Information (if different)		PO Number:
Company Name:	Steuben County Lakes Council			Project Name/Number:
Contact Name:	Pete Hippensteel			Sampler's Signature:
Address:				
City, State, Zip:				Laboratory Number(s): 35371 - 35376
Phone:				Preferred Method of Correspondence: E-mail Fax Mail
Fax:				
E-mail:				

Sample ID/Location Description	Collection Information			Container			Requested Test										Comments			
	Date	Time	Grab or Composite	Matrix	Quantity	Type p=plastic g=glass v=vial	Pres.	T. Phos	E. Coli											
# 450 S ^{600E}	10/9	11:45	G	SW	2	P	u/so	x	X											
600 E W		11:50	G	SW	2	P	u/so	x	X											
600 E M		12:15	G	SW	2	P	u/so	x	X											
600 E S		12:20	G	SW	2	P	u/so	x	X											
500 S		12:20	G	SW	2	P	u/so	x	X											
550 E S		12:25	G	SW	2	P	u/so	x	X											

Relinquished By: 	Date/Time	Received By	Date/Time	Temp. upon Receipt: 8.1 °C Or < 2hrs old	Preservation Code: N = HNO ₃ / Nitric Acid S = H ₂ SO ₄ / Sulfuric Acid H = HCl / Hydrochloric Acid U = Unpreserved, Cooled to 4°C OH = NaOH / Sodium Hydroxide SO = Na ₂ S ₂ O ₃ / Sodium Thiosulfate
	10/9/19, 1340	Walter Hersh	10/9/19, 1340		

CHAIN OF CUSTODY RECORD



Sandhill Environmental Services, LLC.

1975 West 100 North, Ste. C
Angola, IN 46703
260-624-2401

Turn Time:
 Standard
 Rush- Report by Date: _____
 Rush turn times will incur a surcharge and must be pre-approved by the lab.

Matrix Code:
 DW-Drinking Water
 WW-Wastewater
 STW- Stormwater
 SW- Surface water

Client Information		Billing Information (if different)	PO Number:
Company Name:	Steuben County Lakes Council		Project Name/Number:
Contact Name:	Pete Hippensteel		
Address:			Sampler's Signature: <i>Pete Hippensteel</i>
City, State, Zip:			Laboratory Number(s): 35377-35382
Phone:			Preferred Method of Correspondence:
Fax:			E-mail Fax Mail
E-mail:			

Sample ID/Location Description	Collection Information			Container			Requested Test						Comments	
	Date	Time	Grab or Composite	Matrix	Quantity	Type p=plastic g=glass v=vial	Pres.	T. Phos	E. Coli					
450S	10/9	10:00	G	SW	2	P	u/so	x	X					
427	10/9	10:25	G	SW	2	P	u/so	x	X					
850R	10/9	10:50	G	SW	2	P	u/so	x	X					
400S		11:00	G	SW	2	P	u/so	x	X					
300S		11:15	G	SW	2	P	u/so	x	X					
200S		11:30	G	SW	2	P	u/so	x	X					

Relinquished By <i>Pete Hippensteel</i>	Date/Time 10/9/19, 1348	Received By <i>Walt Hersh</i>	Date/Time 10/9/19, 1348	Temp. upon Receipt: 5.1 °C	Preservation Code:
				Or	N = HNO ₃ / Nitric Acid U = Unpreserved, Cooled to 4°C
				< 2hrs old	S = H ₂ SO ₄ / Sulfuric Acid OH = NaOH / Sodium Hydroxide
					H = HCl / Hydrochloric Acid SO = Na ₂ S ₂ O ₃ / Sodium Thiosulfate

CHAIN OF CUSTODY RECORD



Sandhill Environmental Services, LLC.

1975 West 100 North, Ste. C
Angola, IN 46703
260-624-2401

Turn Time:
 Standard
 Rush- Report by Date: _____
 Rush turn times will incur a surcharge and must be pre-approved by the lab.

Matrix Code:
 DW-Drinking Water
 WW-Wastewater
 STW- Stormwater
 SW- Surface water

Client Information		Billing Information (if different)		PO Number:
Company Name:	Steuben County Lakes Council			Project Name/Number:
Contact Name:	Pete Hippensteel			
Address:				Sampler's Signature: <i>Pete Hippensteel</i>
City, State, Zip:				Laboratory Number(s): 35303 - 35305
Phone:				Preferred Method of Correspondence:
Fax:				E-mail Fax Mail
E-mail:				

Sample ID/Location Description	Collection Information		Grab or Composite	Matrix	Quantity	Type p=plastic g=glass v=vial	Pres.	Requested Test			Comments
	Date	Time						T. Phos	E. Coli		
SR1	10/9	1:00	G	SW	2	P	u/so	x	X		
SSOK N	↓	1:10	G	SW	2	P	u/so	x	X		
600 R W/N	↓	1:20	G	SW	2	P	u/so	x	X		
			G	SW	2	P	u/so	x	X		
			G	SW	2	P	u/so	x	X		

Relinquished By <i>Pete Hippensteel</i>	Date/Time 10/9/19, 1348	Received By <i>[Signature]</i>	Date/Time 10/9/19, 1348	Temp. upon Receipt: _____ °C	Preservation Code: N = HNO ₃ / Nitric Acid U = Unpreserved, Cooled to 4°C S = H ₂ SO ₄ / Sulfuric Acid OH = NaOH / Sodium Hydroxide H = HCl / Hydrochloric Acid SO = Na ₂ S ₂ O ₃ / Sodium Thiosulfate
				Or 2hrs old	