



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

July 1, 2019

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

RE: Water Testing

Dear Pete:

Sandhill Environmental Services, LLC received 16 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
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: 1 SR 427 FC

Collection Date: 06/27/2019, 10:10

Lab ID #: 32997

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	> 2,419.6	MPN/100 mL	1.0		06/27/2019, 15:38
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.206	mg/L	0.022		06/27/2019, 17:15

Sample # 32997 was first analyzed on 06/27/2019 at 15:38 using a sample volume of 100 mL. The sample exceeded the maximum plate count with the volume used. The result was >2, 419.6 MPN/100 mL.

The sample was analyzed again using a sample volume of 22 mL on 06/28/2019 at 14:50. This analysis gave the result of 7,876.8 MPN/100 mL. This second analysis was performed out of hold time and therefore the result is suspect. The first analysis was reported.

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: 2 850 S FC

Collection Date: 06/27/2019, 10:25

Lab ID #: 32998

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	1,226.2	MPN/100 mL	2.0		06/27/2019, 15:38
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.223	mg/L	0.022		06/27/2019, 17:15

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: 3 450 S

Collection Date: 06/27/2019, 10:30

Lab ID #: 32999

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	476.4	MPN/100 mL	2.0		06/27/2019, 15:38
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.201	mg/L	0.022		06/27/2019, 17:15



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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: 4 400 S FC

Collection Date: 06/27/2019, 10:40

Lab ID #: 33000

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	651.0	MPN/100 mL	2.0		06/27/2019, 15:38
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.166	mg/L	0.022		06/27/2019, 17:15

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: 5 300 S FC

Collection Date: 06/27/2019, 11:00

Lab ID #: 33001

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	774.6	MPN/100 mL	2.0		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.158	mg/L	0.022		06/27/2019, 17:15

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: 6 200 S

Collection Date: 06/27/2019, 11:05

Lab ID #: 33002

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	689.6	MPN/100 mL	2.0		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.145	mg/L	0.022		06/27/2019, 17:15



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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: 7 500 BC

Collection Date: 06/27/2019, 11:10

Lab ID #: 33003

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	> 8,065.3	MPN/100 mL	3.3		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.273	mg/L	0.022		06/27/2019, 17:15

Sample # 33003 was first analyzed on 06/27/2019 at 15:50 using a sample volume of 30mL. The sample exceeded the maximum plate count. The result was >8,065.3 MPN/100 mL.

The sample was analyzed again using 10mL of sample on 06/28/2019 at 14:50. This analysis gave the result of > 24,196.0 MPN/100 mL. This second analysis was performed out of hold time and therefore the result is suspect. The first analysis was reported.



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ANALYTICAL REPORT

Client: Steuben County Lakes Council
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Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 8 600 BC

Collection Date: 06/27/2019, 11:15

Lab ID #: 33004

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	> 8,065.3	MPN/100 mL	3.3		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.307	mg/L	0.022		06/27/2019, 17:15

Sample # 33004 was first analyzed on 06/27/2019 at 15:50 using a sample volume of 30mL. The sample exceeded the maximum plate count. The result was >8,065.3 MPN/100 mL.

The sample was analyzed again using a sample volume of 10mL on 06/28/2019 at 14:50. This analysis gave the result of > 24,196.0 MPN/100 mL. This second analysis was performed out of hold time and therefore the result is suspect. The first analysis was reported.

ANALYTICAL REPORT



1975 West 100 North, Ste. C
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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: 9 600 BC

Collection Date: 06/27/2019, 11:20

Lab ID #: 33005

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	950.3	MPN/100 mL	3.3		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.221	mg/L	0.022		06/27/2019, 17:15

ANALYTICAL REPORT



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Client: Steuben County Lakes Council
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Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 10 600 BC

Collection Date: 06/27/2019, 11:25

Lab ID #: 33006

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	2.423.3	MPN/100 mL	3.3		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.183	mg/L	0.022		06/27/2019, 17:15



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ANALYTICAL REPORT

Client: Steuben County Lakes Council
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Key:
DL Detection Limit
PL Permit Limit
SUB (as analyst) work sub-contracted by Sandhill

Sample ID: 11 450 S BC

Collection Date: 06/27/2019, 11:35

Lab ID #: 33007

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	1.638.5	MPN/100 mL	2.1		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.252	mg/L	0.022		06/27/2019, 17:15

ANALYTICAL REPORT



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

Sample ID: 12 550 E BC

Collection Date: 06/27/2019, 12:30

Lab ID #: 33008

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	1,732.8	MPN/100 mL	2.0		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.317	mg/L	0.022		06/27/2019, 17:15

ANALYTICAL REPORT



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

Sample ID: 13 BC SR 1

Collection Date: 06/27/2019, 12:50

Lab ID #: 33009

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	727.0	MPN/100 mL	1.0		06/27/2019, 15:50
Total Phosphorus			Hach 10210, E365.1 & E365.3 Equivalent		Analyst: N. McGill
	0.189	mg/L	0.022		06/27/2019, 17:15

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: 14 Carp

Collection Date: 06/27/2019, 13:35

Lab ID #: 33010

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli	153.9	MPN/100 mL	SM9223B	1.0	Analyst: K. Kershner 06/27/2019, 15:50

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: 15 Beach

Collection Date: 06/27/2019, 13:38

Lab ID #: 33011

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli	18.9	MPN/100 mL	1.0		06/27/2019, 15:50

SM9223B

Analyst: K. Kershner

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: 16 Palf

Collection Date: 06/27/2019, 13:40

Lab ID #: 33012

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli	79.8	MPN/100 mL	SM9223B	1.0	Analyst: K. Kershner 06/27/2019, 15:50

CHAIN OF CUSTODY RECORD



Sandhill Environmental Services, LLC.

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

Client Information		Billing Information (if different)		PO Number:
Company Name:	SCLC			Project Name/Number:
Contact Name:	Pete H. Paastad			<i>Pete H. Paastad</i> Sampler's Signature:
Address:				Laboratory Number(s):
City, State, Zip:				32997-33002
Phone:	833-2016			Preferred Method of Correspondence:
Fax:				E-mail Fax Mail
E-mail:				

Collection Information			Container			Requested Test										Comments				
Sample ID/Location Description	Date	Time	Grab or Composite Matrix	Quantity	Type p=plastic g=glass v=vial	Pres.														
1 SR 427 FC	6-27	10:10	G	12	P	U													X TPPOS	X FCOK
2 850P FC	6-27	10:25	↓	2	↓	↓														
3 450S FC	6-27	1030	↓																	
4 400S FC	6-27	10:40	↓																	
5 305S FC	6-27	11:00	↓																	
6 205S FC	6-27	11:05	↓																	

Relinquished By	Date/Time	Received By	Date/Time	Temp. upon Receipt:	Preservation Code:
<i>Pete H. Paastad</i>	6/27/19, 1350	<i>Naomi Kern</i>	6/27/19, 1350	5.4 °C	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	

CHAIN OF CUSTODY RECORD



Sandhill Environmental Services, LLC.

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

Client Information		Billing Information (if different)	PO Number:
Company Name:	SELC		Project Name/Number:
Contact Name:	Pete H. Appensteel		<i>Pete H. Appensteel</i>
Address:			Sampler's Signature:
City, State, Zip:			Laboratory Number(s):
Phone:	833-2016		33003 - 33008
Fax:			Preferred Method of Correspondence:
E-mail:			E-mail Fax Mail

Sample ID/Location Description	Collection Information		Grab or Composite	Matrix	Quantity	Container			Requested Test						Comments	
	Date	Time				Type p=plastic g=glass v=vial	Pres.	TPHOS	ECOL							
7 500 BC	6-27	11:10	G		2	P	U	X	X							
8 600 BC	6-27	11:15	↓		↓	↓	↓	↓	↓							
9 600 BC	6-27	11:20	↓		↓	↓	↓	↓	↓							
10 600 BC	6-27	11:35	↓		↓	↓	↓	↓	↓							
11 4505 BC	6-27	11:35	↓		↓	↓	↓	↓	↓							
12 550E BC	↓	12:38	↓		↓	↓	↓	↓	↓							

Relinquished By	Date/Time	Received By	Date/Time	Temp. upon Receipt:	Preservation Code:
<i>Pete H. Appensteel</i>	6/27/19, 1350	<i>Walter H. ...</i>	6/27/19, 1350	5.1 °C	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	

CHAIN OF CUSTODY RECORD



Sandhill Environmental Services, LLC.

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

	Client Information	Billing Information (if different)	PO Number:
Company Name:	SCLC		Project Name/Number:
Contact Name:	Peta Hippens		<i>Peta Hippens</i>
Address:			Sampler's Signature:
City, State, Zip:			Laboratory Number(s):
Phone:	833-2016		33009-33012
Fax:			Preferred Method of Correspondence:
E-mail:			E-mail Fax 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.									
13 BC SRI	6-27	12:50	G 1	2	p	u	X	X							
14 Comp	6-27	1:35	G 1	1	p	↓		X							
15 Bank	6-27	1:38	G 1	1	↓	↓		X							
16 P.I.E	↓	11F	G 1	1	↓	↓		X							

Relinquished By	Date/Time	Received By	Date/Time	Temp. upon Receipt: _____ °C	Preservation Code:
<i>Peta Hippens</i>	6/27/19, 1350	<i>Wenthers</i>	6/27/19, 1350		
				Or	N = HNO ₃ / Nitric Acid
				< 2hrs old	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

CHAIN OF CUSTODY RECORD



Sandhill Environmental Services, LLC.

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

Client Information		Billing Information (if different)	PO Number:
Company Name:	SCLE		Project Name/Number:
Contact Name:	Pete H. Hester		<i>Pete H. Hester</i>
Address:			Sampler's Signature:
City, State, Zip:			Laboratory Number(s):
Phone:	833-2816		32997-33002
Fax:			Preferred Method of Correspondence:
E-mail:			E-mail Fax 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.																
1 SR 427 Fe	6-27	10:10	G	12	P	U	X	X														
2 8508 Fe	6-27	10:25	G	2	P	U																
3 4505 Fe	6-27	10:30	G		P	U																
4 4805 Fe	6-27	10:40	G		P	U																
5 3055 Fe	6-27	11:00	G		P	U																
6 2055 Fe	6-27	11:05	G		P	U																

Relinquished By	Date/Time	Received By	Date/Time	Temp. upon Receipt:	Preservation Code:
<i>Pete H. Hester</i>	6/27/19, 1350	<i>Wooten</i>	6/27/19, 1350	5.4 °C	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	

CHAIN OF CUSTODY RECORD



Sandhill Environmental Services, LLC.

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

	Client Information	Billing Information (if different)	PO Number:
Company Name:	SELC		Project Name/Number:
Contact Name:	Pete H. pp-steel		<i>Pete H. pp-steel</i>
Address:			Sampler's Signature:
City, State, Zip:			Laboratory Number(s):
Phone:	833-2016		33003-33008
Fax:			Preferred Method of Correspondence:
E-mail:			E-mail Fax 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.														
7 500 BC	6-27	11:10	G	2	P	U	X	X												
8 600 BC	6-27	11:15	↓	↓	↓	↓	↓	↓												
9 600 BC	6-27	11:20	↓	↓	↓	↓	↓	↓												
10 600 BC	6-27	11:25	↓	↓	↓	↓	↓	↓												
11 450S BC	6-27	11:35	↓	↓	↓	↓	↓	↓												
12 550E BC	↓	12:30	↓	↓	↓	↓	↓	↓												

Relinquished By	Date/Time	Received By	Date/Time	Temp. upon Receipt:	Preservation Code:
<i>Pete H. pp-steel</i>	6/27/19, 1350	<i>hate hater</i>	6/27/19, 1350	5.1 °C	N = HNO ₃ / Nitric Acid U = Unpreserved, Cooled to 4°C
				Or	S = H ₂ SO ₄ / Sulfuric Acid OH = NaOH / Sodium Hydroxide
				< 2hrs old	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

Client Information		Billing Information (if different)		PO Number:
Company Name:	SCLR			Project Name/Number:
Contact Name:	Pete Hippens			<i>[Signature]</i>
Address:				Sampler's Signature:
City, State, Zip:				Laboratory Number(s):
Phone:	833-2015			33009 - 33012
Fax:				Preferred Method of Correspondence:
E-mail:				E-mail Fax 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.										
13 BC SRI	6-27	12:50	G	1	2	P	U	X	TPH								
14 Comp	6-27	1:35	G	1	1	P	↓	X									
15 Bank	6-27	1:38	G		1	↓	↓	X									
16 P. 1/2	↓	1:4	G		1	↓	↓	X									

Relinquished By	Date/Time	Received By	Date/Time	Temp. upon Receipt:	Preservation Code:
<i>[Signature]</i>	6/27/19, 1350	<i>[Signature]</i>	6/27/19, 1350	_____ °C	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	