



6/9/2014

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Received: 6/7/2014
CAS File No.: 8339
CAS Order No.: 119188
Your P.O./Project No.:

Purchase Auth: BP240122

Re: Laboratory Receipt of Samples

Dear Mr. Hardesty:

Continental Analytical Services, Inc., received your sample(s) on the date referenced above. The enclosed Test Assignment Review Sheet(s) detail the test(s) and regulatory program that have been assigned to each sample. Also enclosed is the Billing Review Sheet itemizing the anticipated charges for the samples under this order. Please contact me directly at (800)535-3076 if corrections are necessary or fax (785)823-7830/email this letter to deny authorization to proceed with analysis. All samples on the order have been scheduled for Standard Turnaround.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

Please review the Test Assignment Review Sheet(s) and the Cooler/Sample Receipt Form(s), if enclosed, for discrepancies. Continental will proceed with analysis unless you inform us otherwise. If you DO NOT want the analysis performed please sign, date and return this form to Continental.

Name _____ Date _____

Our Terms and Conditions of Sale are located on our website: www.cas-lab.com. These Terms and Conditions will be in effect unless a separate contractual agreement has been made. Samples will be retained by the laboratory for 30 days following issuance of the final report unless an alternate arrangement is agreed to in writing.

Thank you for choosing Continental Analytical Services, Inc. If you have any questions, or require assistance, please contact me directly at (800)535-3076.

CONTINENTAL ANALYTICAL SERVICES, INC.

Gregory J. Groene
Project Manager
Email: gjgroene@cas-lab.com



CONTINENTAL ANALYTICAL SERVICES, INC.
525 N. Eighth St. - SALINA, KANSAS 67401
(800)535-3076 - (785)827-1273
FED ID #48-1062249

BILLING REVIEW SHEET

This is not an invoice.

The invoice will be issued following the final laboratory report.

Page: 1

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: Date Sample(s) Recd: 6/7/2014 CAS File No: 8339 CAS Order No: 119188 PO/Proj. No: Stormwater Purchase Auth.: BP240122
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Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
Nitrogen (TKN + NO3/NO2), as N	1	0.00	0.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Accreditation Summary Report

Client: City of Wichita
CAS Order Number: 119188

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. The table below summarizes Continental's NELAP accreditation status for each requested test for the matrix and regulatory program indicated. If an analyte is listed as Other Reg. Program, NELAP accreditation is not offered under the listed EPA regulatory program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA regulatory program. If an analyte is listed as None then Continental is not accredited for that analyte (normally NELAC accreditation is not available). Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix- Regulatory Program</u>	<u>Method</u>	<u>Certification</u>
GL176	Orthophosphate, as P	L-NPDES	4500-P(E)-1999	KS
GL192	Nitrate/Nitrite, as N (FIA)	L-NPDES	4500-NO3(F)-2000	KS
GL218	Phosphorus, Total, as P	L-NPDES	4500-P(B&G)-1999	KS
GL243	Solids, Total Suspended	L-NPDES	SM 2540 (D)-1997	KS
GL275	Turbidity	L-NPDES	SM 2130 (B)-2001	KS
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	None
GL347	E. Coli	L-NPDES	SM 9223B Colilert	KS
GL595	Kjeldahl Nitrogen, as N (TKN)	L-NPDES	EPA 351.2	KS

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119158

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

Coastal @ MacArthur
Ark @ 83rd St S
Gypsum @ Eastern
Gypsum @ Hillside
S. Slough @ Meridian
Christholm @ Preece
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: None

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/9/14

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date:	6/23/2014
		Date Sample(s) Recd:	6/7/2014
		CAS File No:	8339
		CAS Order No:	119188
		PO/Proj. No:	Stormwater
		Purchase Auth.:	BP240122

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75

TERMS: Net 30 days from the date of invoice. Interest will be charged on past due accounts at the rate of 1.5% per month on unpaid account balance (annual percentage rate of 18%).

VISA, MasterCard and American Express Accepted. For your protection, our company does not accept credit card numbers via email.



525 N. Eighth St. - Salina, KS 67401
 785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119158

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

Coastal @ MacArthur
Ark @ 83rd St S
Gypsum @ Eastern
Gypsum @ Hillside
S. Slough @ Meridian
Christholm @ Preece
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: None

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

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Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/9/14

06/20/2014

Page: 1

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date and Time Received: 06/07/2014 1330
Continental File No.: 8339
Continental Order No.: 119188
Project ID: Stormwater
Purchase Auth: BP240122

Dear Mr. Hardesty:

This laboratory report, containing the samples indicated below, includes 7 pages for the analytical report, 1 page(s) for the chain of custody and/or analysis request, and 1 page(s) for the sample receipt form.

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>SAMPLE TYPE</u>	<u>DATE SAMPLED</u>
14060663	Gypsum@Eastern	Liquid	6/7/2014

The Appendix and Quality Control sections are integral parts of this laboratory report and may contain important data qualifiers.

All results are reported on a wet weight basis unless otherwise stated.

Samples will be retained for thirty days unless Continental is otherwise notified.

Continental is accredited by the State of Kansas through the National Environmental Laboratory Accreditation Program (NELAP). The results contained in this report were obtained using Continental's Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standards published by NELAP unless otherwise noted in the Appendix and Quality Control sections of this report.

This report may not be reproduced, except in full, without written approval from Continental Analytical Services, Inc.

Thank you for choosing Continental for this project.

CONTINENTAL ANALYTICAL SERVICES, INC.



Clifford J. Baker
Technical Manager



Gregory J. Groene
Project Manager



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830
KDHE Environmental Laboratory Accreditation No. E-10146



Sample Results

Client: City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 06/20/2014
 Date Received: 06/07/2014
 Continental File No: 8339
 Continental Order No: 119188

Lab Number: 14060663
 Sample Description: Gypsum@Eastern

Date Sampled: 06/07/2014
 Time Sampled: 1057

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420 II	MPN/100 mL	7336/846
Kjeldahl Nitrogen, as N (TKN)	1.01	mg/L	7321/543
Nitrate/Nitrite, as N (FIA)	0.58	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	1.59	mg/L	9996/339
Orthophosphate, as P	0.2	mg/L	7182/290
Phosphorus, Total, as P	0.27	mg/L	7321/540
Solids, Total Suspended	33	mg/L	7320/968
Turbidity	36.1	NTU	7013/50

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/07/14 1510	140607-1	140607-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/17/14 1045	06/18/14 1520	140617-1	140618-8	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1119	140619-1	140619-1	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/20/14 0833	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/07/14 1553	140607-1	140607-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/18/14 834	140618-1	140618-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/12/14 1513	140612-2	140612-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/08/14 2320	140608-1	140608-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060663

Appendix

Page: 3

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119188

ND(), where reported, indicates the analyte was not detected above the Limit of Quantitation (LOQ). The concentration of the LOQ is inside the parentheses.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14060663	E. Coli	06/07/2014 1057	06/07/2014 1510	4:13
14060663	Orthophosphate, as P	06/07/2014 1057	06/07/2014 1553	4:56
14060663	Turbidity	06/07/2014 1057	06/08/2014 2320	36:23

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

Accreditation Summary

Client: City of Wichita
Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119188

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. Continental is NELAP accredited for each matrix/analyte/method and EPA program cited in this Laboratory Report, except for those listed in the table below and for analyses performed in the field. For most of the analyses listed in the table, NELAP accreditation is not offered under the listed EPA program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA program. Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>CAS NELAP Accredited in Other Reg. Program</u>
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	No

Quality Control Report Batch Summary

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Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119188

Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL347	E. Coli	140607-1	140607BLK1 06/07/14 1510	N/A	14060661MS 06/07/14 1510
Lab numbers associated with this batch: 14060663					
GL595	Kjeldahl Nitrogen, as N (TKN)	140617-1	140617BLK1 06/18/14 1456	140617LCS1 06/18/14 1458	14060663MS 06/18/14 1522
Lab numbers associated with this batch: 14060663					
GL192	Nitrate/Nitrite, as N (FIA)	140619-1	140619BLK1 06/19/14 1109	140619LCS1 06/19/14 1110	14060823MS 06/19/14 1140
Lab numbers associated with this batch: 14060663					
GL343	Nitrogen (TKN + NO3/NO2), as N		N/A	N/A	
Lab numbers associated with this batch: 14060663					
GL176	Orthophosphate, as P	140607-1	140607BLK1 06/07/14 1550	140607LCS1 06/07/14 1551	14060667MS 06/07/14 1552
Lab numbers associated with this batch: 14060663					
GL218	Phosphorus, Total, as P	140618-1	140618BLK1 06/18/14 0831	140618LCS1 06/18/14 0832	14060753MS 06/18/14 0844
Lab numbers associated with this batch: 14060663					
GL243	Solids, Total Suspended	140612-2	140612BLK2 06/12/14 1513	N/A	14060663MS 06/12/14 1513
Lab numbers associated with this batch: 14060663					
GL275	Turbidity	140608-1	140608BLK1 06/08/14 2308	140608LCS1 06/08/14 2309	14060661MS 06/08/14 2309
Lab numbers associated with this batch: 14060663					

Quality Control Report
Method Blank, LCS, MS/MSD Data

Page: 6

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119188

Analysis	Blank Data	% Rec		Spike Level	Units	Spiked Sample (% Recovery)		Limits	Spike Level	Units	Spiked Sample Precision Data	
		LCS	Limits			MS	MSD				RPD	Limit
QC Batch: 140607-1 E. Coli	For sample analyzed on: 06/07/2014 ND(1) II					Spiked sample: 14060661		#	N/A	MPN/10	**	127
	N/A	#	N/A	MPN/10	MN	MN						
QC Batch: 140607-1 Orthophosphate, as P	For sample analyzed on: 06/07/2014 ND(0.1)					Spiked sample: 14060667		87.6-109	0.50	mg/L	**	5.9
	98.0	90.0-110	0.50	mg/L	MN	MN						
QC Batch: 140608-1 Turbidity	For sample analyzed on: 06/08/2014 ND(0.50)					Spiked sample: 14060661		#	N/A	NTU	**	6.0
	99.8	90.0-110	48.1	NTU	MN	MN						
QC Batch: 140612-2 Solids, Total Suspended	For sample analyzed on: 06/12/2014 ND(5)					Spiked sample: 14060663		#	N/A	mg/L	3.00	23.7
	N/A	#	N/A	mg/L	33 T	34 T						
QC Batch: 140617-1 Kjeldahl Nitrogen, as N (TKN)	For samples prepared on: 06/17/2014 1045 ND(0.50)					Spiked sample: 14060663		52.9-133	4.0	mg/L	0.40	17.2
	95.8	90.0-110	4.0	mg/L	98.5	98.0						
QC Batch: 140618-1 Phosphorus, Total, as P	For sample analyzed on: 06/18/2014 ND(0.04) J					Spiked sample: 14060753		66.4-125	2.0	mg/L	**	14.1
	102	90.0-110	2.0	mg/L	MN	MN						
QC Batch: 140619-1 Nitrate/Nitrite, as N (FIA)	For sample analyzed on: 06/19/2014 ND(0.10)					Spiked sample: 14060823		88.9-111	40.0	mg/L	**	3.5
	101	90.0-110	2.0	mg/L	MN	MN						

Data Qualifiers:

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

MN - The MS/MSD sample analyses were not performed on a sample from this Continental order number.

T - A MS/MSD cannot be performed for this analysis and a duplicate analysis is performed. The MS and MSD results are from two separate analyses.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

- Limits not applicable/not available for this analysis.

** - RPD calculation not applicable/not available for this analysis.

Quality Control Report
Continuing Calibration Report

Page: 7

Client: City of Wichita
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455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119188

<u>Analysis</u>	<u>Date of</u> <u>Analysis</u>	<u>Instrument</u> <u>Batch ID</u>	<u>Amount in</u> <u>Standard</u>	<u>Amount</u> <u>Detected</u>	<u>Units</u>	<u>Percent</u> <u>Recovery</u>
Orthophosphate, as P	06/07/2014	140607-2	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P	06/07/2014	140607-3	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-1	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-2	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-1	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-3	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-8	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-9	CCV recovery acceptable for this			Instrument Batch.

- Laboratory Report Conclusion -

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119158

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

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Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: None

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9
Temperature By: Temperature Blank Surface Temperature
Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

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 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
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Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/9/14



6/9/2014

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Received: 6/7/2014
CAS File No.: 8339
CAS Order No.: 119189
Your P.O./Project No.:

Purchase Auth: BP240122

Re: Laboratory Receipt of Samples

Dear Mr. Hardesty:

Continental Analytical Services, Inc., received your sample(s) on the date referenced above. The enclosed Test Assignment Review Sheet(s) detail the test(s) and regulatory program that have been assigned to each sample. Also enclosed is the Billing Review Sheet itemizing the anticipated charges for the samples under this order. Please contact me directly at (800)535-3076 if corrections are necessary or fax (785)823-7830/email this letter to deny authorization to proceed with analysis. All samples on the order have been scheduled for Standard Turnaround.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

Please review the Test Assignment Review Sheet(s) and the Cooler/Sample Receipt Form(s), if enclosed, for discrepancies. Continental will proceed with analysis unless you inform us otherwise. If you DO NOT want the analysis performed please sign, date and return this form to Continental.

Name _____ Date _____

Our Terms and Conditions of Sale are located on our website: www.cas-lab.com. These Terms and Conditions will be in effect unless a separate contractual agreement has been made. Samples will be retained by the laboratory for 30 days following issuance of the final report unless an alternate arrangement is agreed to in writing.

Thank you for choosing Continental Analytical Services, Inc. If you have any questions, or require assistance, please contact me directly at (800)535-3076.

CONTINENTAL ANALYTICAL SERVICES, INC.

Gregory J. Groene
Project Manager
Email: gjgroene@cas-lab.com

CONTINENTAL ANALYTICAL SERVICES, INC.
 525 N. Eighth St. - SALINA, KANSAS 67401
 (800)535-3076 - (785)827-1273
 FED ID #48-1062249

BILLING REVIEW SHEET

This is not an invoice.

The invoice will be issued following the final laboratory report.

Page: 1

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: Date Sample(s) Recd: 6/7/2014 CAS File No: 8339 CAS Order No: 119189 PO/Proj. No: Stormwater Purchase Auth.: BP240122
---------	---	---

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Discounted Price Per Sample	Total
Orthophosphate, as P	1	18.00	0.00	0.00
Nitrate/Nitrite, as N (FIA)	1	18.00	11.25	11.25
Phosphorus, Total, as P	1	32.00	24.00	24.00
Solids, Total Suspended	1	15.00	11.25	11.25
Turbidity	1	15.00	11.25	11.25
Nitrogen (TKN + NO3/NO2), as N	1	0.00	0.00	0.00
E. Coli	1	40.00	0.00	0.00
Kjeldahl Nitrogen, as N (TKN)	1	35.00	26.25	26.25

Amount Due: 84.00



525 N. Eighth St. - Salina, KS 67401
 785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Accreditation Summary Report

Client: City of Wichita
CAS Order Number: 119189

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. The table below summarizes Continental's NELAP accreditation status for each requested test for the matrix and regulatory program indicated. If an analyte is listed as Other Reg. Program, NELAP accreditation is not offered under the listed EPA regulatory program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA regulatory program. If an analyte is listed as None then Continental is not accredited for that analyte (normally NELAC accreditation is not available). Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>Certification</u>
GL176	Orthophosphate, as P	L-NPDES	4500-P(E)-1999	KS
GL192	Nitrate/Nitrite, as N (FIA)	L-NPDES	4500-NO3(F)-2000	KS
GL218	Phosphorus, Total, as P	L-NPDES	4500-P(B&G)-1999	KS
GL243	Solids, Total Suspended	L-NPDES	SM 2540 (D)-1997	KS
GL275	Turbidity	L-NPDES	SM 2130 (B)-2001	KS
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	None
GL347	E. Coli	L-NPDES	SM 9223B Colilert	KS
GL595	Kjeldahl Nitrogen, as N (TKN)	L-NPDES	EPA 351.2	KS

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119189

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

Copson @ MacArthur
Ark @ 83rd St 5
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christholm @ Preece
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: Delivered

Custody Seal: Present Intact / Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: SBS Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6-9-14

CONTINENTAL ANALYTICAL SERVICES, INC.
525 N. Eighth St. - SALINA, KANSAS 67401
(800)535-3076 - (785)827-1273
FED ID #48-1062249

BILLING REVIEW SHEET

This is not an invoice.

The invoice will be issued following the final laboratory report.

Page: 1

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: Date Sample(s) Recd: 6/7/2014 CAS File No: 8339 CAS Order No: 119189 PO/Proj. No: Stormwater Purchase Auth.: BP240122
---------	---	---

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
Nitrogen (TKN + NO3/NO2), as N	1	0.00	0.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830



Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date:	6/23/2014
		Date Sample(s) Recd:	6/7/2014
		CAS File No:	8339
		CAS Order No:	119189
		PO/Proj. No:	Stormwater
		Purchase Auth.:	BP240122

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75

TERMS: Net 30 days from the date of invoice. Interest will be charged on past due accounts at the rate of 1.5% per month on unpaid account balance (annual percentage rate of 18%).

VISA, MasterCard and American Express Accepted. For your protection, our company does not accept credit card numbers via email.



525 N. Eighth St. - Salina, KS 67401
 785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119189

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

Copson @ MacArthur
Ark @ 83rd St 5
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christholm @ Preece
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: Delivered

Custody Seal: Present Intact / Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9
Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6-9-14

06/20/2014

Page: 1

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date and Time Received: 06/07/2014 1330
Continental File No.: 8339
Continental Order No.: 119189
Project ID: Stormwater
Purchase Auth: BP240122

Dear Mr. Hardesty:

This laboratory report, containing the samples indicated below, includes 7 pages for the analytical report, 1 page(s) for the chain of custody and/or analysis request, and 1 page(s) for the sample receipt form.

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>SAMPLE TYPE</u>	<u>DATE SAMPLED</u>
14060664	Gypsum@Hillside	Liquid	6/7/2014

The Appendix and Quality Control sections are integral parts of this laboratory report and may contain important data qualifiers.

All results are reported on a wet weight basis unless otherwise stated.

Samples will be retained for thirty days unless Continental is otherwise notified.

Continental is accredited by the State of Kansas through the National Environmental Laboratory Accreditation Program (NELAP). The results contained in this report were obtained using Continental's Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standards published by NELAP unless otherwise noted in the Appendix and Quality Control sections of this report.

This report may not be reproduced, except in full, without written approval from Continental Analytical Services, Inc.

Thank you for choosing Continental for this project.

CONTINENTAL ANALYTICAL SERVICES, INC.



Clifford J. Baker
Technical Manager



Gregory J. Groene
Project Manager



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830
KDHE Environmental Laboratory Accreditation No. E-10146



Sample Results

Page: 2

Client: City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 06/20/2014
 Date Received: 06/07/2014
 Continental File No: 8339
 Continental Order No: 119189

Lab Number: 14060664
 Sample Description: Gypsum@Hillside

Date Sampled: 06/07/2014
 Time Sampled: 1003

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420 II	MPN/100 mL	7336/846
Kjeldahl Nitrogen, as N (TKN)	1.48	mg/L	7321/543
Nitrate/Nitrite, as N (FIA)	0.48	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	1.96	mg/L	9996/339
Orthophosphate, as P	0.1	mg/L	7182/290
Phosphorus, Total, as P	0.24	mg/L	7321/540
Solids, Total Suspended	308	mg/L	7320/968
Turbidity	224	NTU	7013/50

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/07/14 1510	140607-1	140607-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/17/14 1045	06/18/14 1524	140617-1	140618-8	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1120	140619-1	140619-1	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/20/14 0833	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/07/14 1552	140607-1	140607-1	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/18/14 835	140618-1	140618-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/12/14 1513	140612-2	140612-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/08/14 2314	140608-1	140608-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060664

Appendix

Page: 3

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119189

ND(), where reported, indicates the analyte was not detected above the Limit of Quantitation (LOQ). The concentration of the LOQ is inside the parentheses.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14060664	E. Coli	06/07/2014 1003	06/07/2014 1510	5:07
14060664	Orthophosphate, as P	06/07/2014 1003	06/07/2014 1552	5:49
14060664	Turbidity	06/07/2014 1003	06/08/2014 2314	37:11

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

Accreditation Summary

Page: 4

Client: City of Wichita
Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119189

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. Continental is NELAP accredited for each matrix/analyte/method and EPA program cited in this Laboratory Report, except for those listed in the table below and for analyses performed in the field. For most of the analyses listed in the table, NELAP accreditation is not offered under the listed EPA program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA program. Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>CAS NELAP Accredited in Other Reg. Program</u>
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	No

Quality Control Report Batch Summary

Page: 5

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119189

Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL347	E. Coli	140607-1	140607BLK1 06/07/14 1510	N/A	14060661MS 06/07/14 1510
Lab numbers associated with this batch: 14060664					
GL595	Kjeldahl Nitrogen, as N (TKN)	140617-1	140617BLK1 06/18/14 1456	140617LCS1 06/18/14 1458	14060663MS 06/18/14 1522
Lab numbers associated with this batch: 14060664					
GL192	Nitrate/Nitrite, as N (FIA)	140619-1	140619BLK1 06/19/14 1109	140619LCS1 06/19/14 1110	14060823MS 06/19/14 1140
Lab numbers associated with this batch: 14060664					
GL343	Nitrogen (TKN + NO3/NO2), as N		N/A	N/A	
Lab numbers associated with this batch: 14060664					
GL176	Orthophosphate, as P	140607-1	140607BLK1 06/07/14 1550	140607LCS1 06/07/14 1551	14060667MS 06/07/14 1552
Lab numbers associated with this batch: 14060664					
GL218	Phosphorus, Total, as P	140618-1	140618BLK1 06/18/14 0831	140618LCS1 06/18/14 0832	14060753MS 06/18/14 0844
Lab numbers associated with this batch: 14060664					
GL243	Solids, Total Suspended	140612-2	140612BLK2 06/12/14 1513	N/A	14060663MS 06/12/14 1513
Lab numbers associated with this batch: 14060664					
GL275	Turbidity	140608-1	140608BLK1 06/08/14 2308	140608LCS1 06/08/14 2309	14060661MS 06/08/14 2309
Lab numbers associated with this batch: 14060664					

Quality Control Report
Method Blank, LCS, MS/MSD Data

Page: 6

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119189

Analysis	Blank Data	% Rec		Spike Level	Units	Spiked Sample (% Recovery)		Limits	Spike Level	Units	Spiked Sample Precision Data	
		LCS	Limits			MS	MSD				RPD	Limit
QC Batch: 140607-1 E. Coli	For sample analyzed on: 06/07/2014					Spiked sample: 14060661						
	ND(1) II	N/A	#	N/A	MPN/10	MN	MN	#	N/A	MPN/10	**	127
QC Batch: 140607-1 Orthophosphate, as P	For sample analyzed on: 06/07/2014					Spiked sample: 14060667						
	ND(0.1)	98.0	90.0-110	0.50	mg/L	MN	MN	87.6-109	0.50	mg/L	**	5.9
QC Batch: 140608-1 Turbidity	For sample analyzed on: 06/08/2014					Spiked sample: 14060661						
	ND(0.50)	99.8	90.0-110	48.1	NTU	MN	MN	#	N/A	NTU	**	6.0
QC Batch: 140612-2 Solids, Total Suspended	For sample analyzed on: 06/12/2014					Spiked sample: 14060663						
	ND(5)	N/A	#	N/A	mg/L	MN	MN	#	N/A	mg/L	**	23.7
QC Batch: 140617-1 Kjeldahl Nitrogen, as N (TKN)	For samples prepared on: 06/17/2014 1045					Spiked sample: 14060663						
	ND(0.50)	95.8	90.0-110	4.0	mg/L	MN	MN	52.9-133	4.0	mg/L	**	17.2
QC Batch: 140618-1 Phosphorus, Total, as P	For sample analyzed on: 06/18/2014					Spiked sample: 14060753						
	ND(0.04) J	102	90.0-110	2.0	mg/L	MN	MN	66.4-125	2.0	mg/L	**	14.1
QC Batch: 140619-1 Nitrate/Nitrite, as N (FIA)	For sample analyzed on: 06/19/2014					Spiked sample: 14060823						
	ND(0.10)	101	90.0-110	2.0	mg/L	MN	MN	88.9-111	40.0	mg/L	**	3.5

Data Qualifiers:

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

MN - The MS/MSD sample analyses were not performed on a sample from this Continental order number.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

- Limits not applicable/not available for this analysis.

** - RPD calculation not applicable/not available for this analysis.

Quality Control Report Continuing Calibration Report

Page: 7

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119189

<u>Analysis</u>	<u>Date of</u> <u>Analysis</u>	<u>Instrument</u> <u>Batch ID</u>	<u>Amount in</u> <u>Standard</u>	<u>Amount</u> <u>Detected</u>	<u>Units</u>	<u>Percent</u> <u>Recovery</u>
Orthophosphate, as P	06/07/2014	140607-1	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P	06/07/2014	140607-2	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-1	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-2	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-1	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-1	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-2	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-8	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-9	CCV recovery acceptable for this			Instrument Batch.

- Laboratory Report Conclusion -

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119189

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

Copson @ MacArthur
Ark @ 83rd St 5
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christholm @ Preece
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: Delivered

Custody Seal: Present Intact / Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: SBS Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6-9-14

6/10/2014

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Received: 6/7/2014
CAS File No.: 8339
CAS Order No.: 119190
Your P.O./Project No.:

Purchase Auth: BP240122

Re: Laboratory Receipt of Samples

Dear Mr. Hardesty:

Continental Analytical Services, Inc., received your sample(s) on the date referenced above. The enclosed Test Assignment Review Sheet(s) detail the test(s) and regulatory program that have been assigned to each sample. Also enclosed is the Billing Review Sheet itemizing the anticipated charges for the samples under this order. Please contact me directly at (800)535-3076 if corrections are necessary or fax (785)823-7830/email this letter to deny authorization to proceed with analysis. All samples on the order have been scheduled for Standard Turnaround.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

Please review the Test Assignment Review Sheet(s) and the Cooler/Sample Receipt Form(s), if enclosed, for discrepancies. Continental will proceed with analysis unless you inform us otherwise. If you DO NOT want the analysis performed please sign, date and return this form to Continental.

Name _____ Date _____

Our Terms and Conditions of Sale are located on our website: www.cas-lab.com. These Terms and Conditions will be in effect unless a separate contractual agreement has been made. Samples will be retained by the laboratory for 30 days following issuance of the final report unless an alternate arrangement is agreed to in writing.

Thank you for choosing Continental Analytical Services, Inc. If you have any questions, or require assistance, please contact me directly at (800)535-3076.

CONTINENTAL ANALYTICAL SERVICES, INC.

Gregory J. Groene
Project Manager
Email: gjgroene@cas-lab.com

CONTINENTAL ANALYTICAL SERVICES, INC.
525 N. Eighth St. - SALINA, KANSAS 67401
(800)535-3076 - (785)827-1273
FED ID #48-1062249

BILLING REVIEW SHEET

This is not an invoice.

The invoice will be issued following the final laboratory report.

Page: 1

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: Date Sample(s) Recd: 6/7/2014 CAS File No: 8339 CAS Order No: 119190 PO/Proj. No: Stormwater Purchase Auth.: BP240122
---------	---	---

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
Nitrogen (TKN + NO3/NO2), as N	1	0.00	0.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Accreditation Summary Report

Client: City of Wichita
CAS Order Number: 119190

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. The table below summarizes Continental's NELAP accreditation status for each requested test for the matrix and regulatory program indicated. If an analyte is listed as Other Reg. Program, NELAP accreditation is not offered under the listed EPA regulatory program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA regulatory program. If an analyte is listed as None then Continental is not accredited for that analyte (normally NELAC accreditation is not available). Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>Certification</u>
GL176	Orthophosphate, as P	L-NPDES	4500-P(E)-1999	KS
GL192	Nitrate/Nitrite, as N (FIA)	L-NPDES	4500-NO3(F)-2000	KS
GL218	Phosphorus, Total, as P	L-NPDES	4500-P(B&G)-1999	KS
GL243	Solids, Total Suspended	L-NPDES	SM 2540 (D)-1997	KS
GL275	Turbidity	L-NPDES	SM 2130 (B)-2001	KS
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	None
GL347	E. Coli	L-NPDES	SM 9223B Colilert	KS
GL595	Kjeldahl Nitrogen, as N (TKN)	L-NPDES	EPA 351.2	KS

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119190

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

CA @ N. Meridian
Ark @ 53rd St N.
E. dishdu @ N. Hillside

CA @ Central
Laustrin @ 1354th St W

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 2 / Client's Cooler / Box / Letter / Hand-delivered
Other:

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other GSJ

Custody Seal: Present Intact Broken Absent: Seal No: 2
Seal Name: Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other:

Cooler Temperature (°C): Original Reading (°C) 1.1 Corrected Reading (°C) 1.7

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: SBS Thermo. Correction Factor (°C): 70.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/9/14

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date:	6/23/2014
		Date Sample(s) Recd:	6/7/2014
		CAS File No:	8339
		CAS Order No:	119190
		PO/Proj. No:	Stormwater
		Purchase Auth.:	BP240122

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75

TERMS: Net 30 days from the date of invoice. Interest will be charged on past due accounts at the rate of 1.5% per month on unpaid account balance (annual percentage rate of 18%).

VISA, MasterCard and American Express Accepted. For your protection, our company does not accept credit card numbers via email.



525 N. Eighth St. - Salina, KS 67401
 785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119190

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

CA @ N. Meridian
Ark @ 53rd St N.
E. dishdu @ N. Hillside

CA @ Central
Cavster @ 1354h St W

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 2 / Client's Cooler / Box / Letter / Hand-delivered
Other:

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other GSJ

Custody Seal: Present Intact Broken Absent: Seal No: 2
Seal Name: Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other:

Cooler Temperature (°C): Original Reading (°C) 1.1 Corrected Reading (°C) 1.7

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: SBS Thermo. Correction Factor (°C): 70.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/9/14

06/20/2014

Page: 1

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date and Time Received: 06/07/2014 1330
Continental File No.: 8339
Continental Order No.: 119190
Project ID: Stormwater
Purchase Auth: BP240122

Dear Mr. Hardesty:

This laboratory report, containing the samples indicated below, includes 7 pages for the analytical report, 1 page(s) for the chain of custody and/or analysis request, and 1 page(s) for the sample receipt form.

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>SAMPLE TYPE</u>	<u>DATE SAMPLED</u>
14060665	LA@Central	Liquid	6/7/2014

The Appendix and Quality Control sections are integral parts of this laboratory report and may contain important data qualifiers.

All results are reported on a wet weight basis unless otherwise stated.

Samples will be retained for thirty days unless Continental is otherwise notified.

Continental is accredited by the State of Kansas through the National Environmental Laboratory Accreditation Program (NELAP). The results contained in this report were obtained using Continental's Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standards published by NELAP unless otherwise noted in the Appendix and Quality Control sections of this report.

This report may not be reproduced, except in full, without written approval from Continental Analytical Services, Inc.

Thank you for choosing Continental for this project.

CONTINENTAL ANALYTICAL SERVICES, INC.



Clifford J. Baker
Technical Manager



Gregory J. Groene
Project Manager



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830
KDHE Environmental Laboratory Accreditation No. E-10146



Sample Results

Page: 2

Client: City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 06/20/2014
 Date Received: 06/07/2014
 Continental File No: 8339
 Continental Order No: 119190

Lab Number: 14060665
 Sample Description: LA@Central

Date Sampled: 06/07/2014
 Time Sampled: 0810

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420 II	MPN/100 mL	7336/846
Kjeldahl Nitrogen, as N (TKN)	3.22	mg/L	7321/543
Nitrate/Nitrite, as N (FIA)	0.85	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	4.07	mg/L	9996/339
Orthophosphate, as P	0.3	mg/L	7182/290
Phosphorus, Total, as P	0.12 J	mg/L	7321/540
Solids, Total Suspended	506	mg/L	7320/968
Turbidity	399	NTU	7013/50

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/07/14 1510	140607-1	140607-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/17/14 1045	06/18/14 1525	140617-1	140618-8	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1123	140619-1	140619-2	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/20/14 0833	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/07/14 1554	140607-1	140607-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/18/14 836	140618-1	140618-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/12/14 1513	140612-2	140612-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/08/14 2324	140608-1	140608-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060665

Appendix

Page: 3

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119190

ND(), where reported, indicates the analyte was not detected above the Limit of Quantitation (LOQ). The concentration of the LOQ is inside the parentheses.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14060665	E. Coli	06/07/2014 0810	06/07/2014 1510	7:00
14060665	Orthophosphate, as P	06/07/2014 0810	06/07/2014 1554	7:44
14060665	Turbidity	06/07/2014 0810	06/08/2014 2324	39:14

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

Accreditation Summary

Page: 4

Client: City of Wichita
Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119190

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. Continental is NELAP accredited for each matrix/analyte/method and EPA program cited in this Laboratory Report, except for those listed in the table below and for analyses performed in the field. For most of the analyses listed in the table, NELAP accreditation is not offered under the listed EPA program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA program. Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>CAS NELAP Accredited in Other Reg. Program</u>
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	No

Quality Control Report Batch Summary

Page: 5

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119190

Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL347	E. Coli	140607-1	140607BLK1 06/07/14 1510	N/A	14060661MS 06/07/14 1510
Lab numbers associated with this batch: 14060665					
GL595	Kjeldahl Nitrogen, as N (TKN)	140617-1	140617BLK1 06/18/14 1456	140617LCS1 06/18/14 1458	14060663MS 06/18/14 1522
Lab numbers associated with this batch: 14060665					
GL192	Nitrate/Nitrite, as N (FIA)	140619-1	140619BLK1 06/19/14 1109	140619LCS1 06/19/14 1110	14060823MS 06/19/14 1140
Lab numbers associated with this batch: 14060665					
GL343	Nitrogen (TKN + NO3/NO2), as N		N/A	N/A	
Lab numbers associated with this batch: 14060665					
GL176	Orthophosphate, as P	140607-1	140607BLK1 06/07/14 1550	140607LCS1 06/07/14 1551	14060667MS 06/07/14 1552
Lab numbers associated with this batch: 14060665					
GL218	Phosphorus, Total, as P	140618-1	140618BLK1 06/18/14 0831	140618LCS1 06/18/14 0832	14060753MS 06/18/14 0844
Lab numbers associated with this batch: 14060665					
GL243	Solids, Total Suspended	140612-2	140612BLK2 06/12/14 1513	N/A	14060663MS 06/12/14 1513
Lab numbers associated with this batch: 14060665					
GL275	Turbidity	140608-1	140608BLK1 06/08/14 2308	140608LCS1 06/08/14 2309	14060661MS 06/08/14 2309
Lab numbers associated with this batch: 14060665					

Quality Control Report
Method Blank, LCS, MS/MSD Data

Page: 6

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119190

Analysis	Blank Data	% Rec		Spike Level	Units	Spiked Sample (% Recovery)		Limits	Spike Level	Units	Spiked Sample Precision Data	
		LCS	Limits			MS	MSD				RPD	Limit
QC Batch: 140607-1 E. Coli	For sample analyzed on: 06/07/2014 ND(1) II					Spiked sample: 14060661		#	N/A	MPN/10	**	127
	N/A	#	N/A	MPN/10	MN	MN						
QC Batch: 140607-1 Orthophosphate, as P	For sample analyzed on: 06/07/2014 ND(0.1)					Spiked sample: 14060667		87.6-109	0.50	mg/L	**	5.9
	98.0	90.0-110	0.50	mg/L	MN	MN						
QC Batch: 140608-1 Turbidity	For sample analyzed on: 06/08/2014 ND(0.50)					Spiked sample: 14060661		#	N/A	NTU	**	6.0
	99.8	90.0-110	48.1	NTU	MN	MN						
QC Batch: 140612-2 Solids, Total Suspended	For sample analyzed on: 06/12/2014 ND(5)					Spiked sample: 14060663		#	N/A	mg/L	**	23.7
	N/A	#	N/A	mg/L	MN	MN						
QC Batch: 140617-1 Kjeldahl Nitrogen, as N (TKN)	For samples prepared on: 06/17/2014 1045 ND(0.50)					Spiked sample: 14060663		52.9-133	4.0	mg/L	**	17.2
	95.8	90.0-110	4.0	mg/L	MN	MN						
QC Batch: 140618-1 Phosphorus, Total, as P	For sample analyzed on: 06/18/2014 ND(0.04) J					Spiked sample: 14060753		66.4-125	2.0	mg/L	**	14.1
	102	90.0-110	2.0	mg/L	MN	MN						
QC Batch: 140619-1 Nitrate/Nitrite, as N (FIA)	For sample analyzed on: 06/19/2014 ND(0.10)					Spiked sample: 14060823		88.9-111	40.0	mg/L	**	3.5
	101	90.0-110	2.0	mg/L	MN	MN						

Data Qualifiers:

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

MN - The MS/MSD sample analyses were not performed on a sample from this Continental order number.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

- Limits not applicable/not available for this analysis.

** - RPD calculation not applicable/not available for this analysis.

Quality Control Report Continuing Calibration Report

Page: 7

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119190

<u>Analysis</u>	<u>Date of</u> <u>Analysis</u>	<u>Instrument</u> <u>Batch ID</u>	<u>Amount in</u> <u>Standard</u>	<u>Amount</u> <u>Detected</u>	<u>Units</u>	<u>Percent</u> <u>Recovery</u>
Orthophosphate, as P	06/07/2014	140607-2	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P	06/07/2014	140607-3	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-2	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-3	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-1	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-3	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-8	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-9	CCV recovery acceptable for this			Instrument Batch.

- Laboratory Report Conclusion -

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119190

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

CA @ N. Meridian
Ark @ 53rd St N.
E. dishdu @ N. Hillside

CA @ Central
Cavster @ 135th St W

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 2 / Client's Cooler / Box / Letter / Hand-delivered
Other:

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other GSJ

Custody Seal: Present Intact Broken Absent: Seal No: 2
Seal Name: Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other:

Cooler Temperature (°C): Original Reading (°C) 1.1 Corrected Reading (°C) 1.7

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: SBS Thermo. Correction Factor (°C): 10.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/9/14

6/9/2014

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Received: 6/7/2014
CAS File No.: 8339
CAS Order No.: 119191
Your P.O./Project No.:

Purchase Auth: BP240122

Re: Laboratory Receipt of Samples

Dear Mr. Hardesty:

Continental Analytical Services, Inc., received your sample(s) on the date referenced above. The enclosed Test Assignment Review Sheet(s) detail the test(s) and regulatory program that have been assigned to each sample. Also enclosed is the Billing Review Sheet itemizing the anticipated charges for the samples under this order. Please contact me directly at (800)535-3076 if corrections are necessary or fax (785)823-7830/email this letter to deny authorization to proceed with analysis. All samples on the order have been scheduled for Standard Turnaround.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

Please review the Test Assignment Review Sheet(s) and the Cooler/Sample Receipt Form(s), if enclosed, for discrepancies. Continental will proceed with analysis unless you inform us otherwise. If you DO NOT want the analysis performed please sign, date and return this form to Continental.

Name _____ Date _____

Our Terms and Conditions of Sale are located on our website: www.cas-lab.com. These Terms and Conditions will be in effect unless a separate contractual agreement has been made. Samples will be retained by the laboratory for 30 days following issuance of the final report unless an alternate arrangement is agreed to in writing.

Thank you for choosing Continental Analytical Services, Inc. If you have any questions, or require assistance, please contact me directly at (800)535-3076.

CONTINENTAL ANALYTICAL SERVICES, INC.

Gregory J. Groene
Project Manager
Email: gjgroene@cas-lab.com

CONTINENTAL ANALYTICAL SERVICES, INC.
525 N. Eighth St. - SALINA, KANSAS 67401
(800)535-3076 - (785)827-1273
FED ID #48-1062249

BILLING REVIEW SHEET

This is not an invoice.

The invoice will be issued following the final laboratory report.

Page: 1

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: Date Sample(s) Recd: 6/7/2014 CAS File No: 8339 CAS Order No: 119191 PO/Proj. No: Stormwater Purchase Auth.: BP240122
---------	---	---

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
Nitrogen (TKN + NO3/NO2), as N	1	0.00	0.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Accreditation Summary Report

Client: City of Wichita
CAS Order Number: 119191

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. The table below summarizes Continental's NELAP accreditation status for each requested test for the matrix and regulatory program indicated. If an analyte is listed as Other Reg. Program, NELAP accreditation is not offered under the listed EPA regulatory program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA regulatory program. If an analyte is listed as None then Continental is not accredited for that analyte (normally NELAC accreditation is not available). Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>Certification</u>
GL176	Orthophosphate, as P	L-NPDES	4500-P(E)-1999	KS
GL192	Nitrate/Nitrite, as N (FIA)	L-NPDES	4500-NO3(F)-2000	KS
GL218	Phosphorus, Total, as P	L-NPDES	4500-P(B&G)-1999	KS
GL243	Solids, Total Suspended	L-NPDES	SM 2540 (D)-1997	KS
GL275	Turbidity	L-NPDES	SM 2130 (B)-2001	KS
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	None
GL347	E. Coli	L-NPDES	SM 9223B Colilert	KS
GL595	Kjeldahl Nitrogen, as N (TKN)	L-NPDES	EPA 351.2	KS

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 11919

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

CA @ N. Meridian
Ark @ 53rd St N.
E. Dishon @ N. Hillside

CA @ Central
Casskin @ 1354th St W

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 2 / Client's Cooler / Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedEx / AB Express / Field Svcs / Mail / Walk-In / Other: GSJ

Custody Seal: Present: Intact Broken Absent: Seal No: 2 Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.1 Corrected Reading (°C) 1.7

Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: SBS Thermo. Correction Factor (°C): 10.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input type="checkbox"/> Missing relinquished information: signature date time | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/7/14

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date:	6/23/2014
		Date Sample(s) Recd:	6/7/2014
		CAS File No:	8339
		CAS Order No:	119191
		PO/Proj. No:	Stormwater
		Purchase Auth.:	BP240122

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75

TERMS: Net 30 days from the date of invoice. Interest will be charged on past due accounts at the rate of 1.5% per month on unpaid account balance (annual percentage rate of 18%).

VISA, MasterCard and American Express Accepted. For your protection, our company does not accept credit card numbers via email.



525 N. Eighth St. - Salina, KS 67401
 785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 11919

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

CA @ N. Meridian
Ark @ 53rd St N.
E. Dishon @ N. Hillside

CA @ Central
Casskin @ 1354th St W

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 2 / Client's Cooler / Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedEx / AB Express / Field Svcs / Mail / Walk-In / Other: GSJ

Custody Seal: Present: Intact Broken Absent: Seal No: 2 Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.1 Corrected Reading (°C) 1.7

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: SBS Thermo. Correction Factor (°C): 10.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter
 - Container
 - PO
 - CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/7/14

06/20/2014

Page: 1

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date and Time Received: 06/07/2014 1330
Continental File No.: 8339
Continental Order No.: 119191
Project ID: Stormwater
Purchase Auth: BP240122

Dear Mr. Hardesty:

This laboratory report, containing the samples indicated below, includes 7 pages for the analytical report, 1 page(s) for the chain of custody and/or analysis request, and 1 page(s) for the sample receipt form.

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>SAMPLE TYPE</u>	<u>DATE SAMPLED</u>
14060666	LA@N. Meridian	Liquid	6/7/2014

The Appendix and Quality Control sections are integral parts of this laboratory report and may contain important data qualifiers.

All results are reported on a wet weight basis unless otherwise stated.

Samples will be retained for thirty days unless Continental is otherwise notified.

Continental is accredited by the State of Kansas through the National Environmental Laboratory Accreditation Program (NELAP). The results contained in this report were obtained using Continental's Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standards published by NELAP unless otherwise noted in the Appendix and Quality Control sections of this report.

This report may not be reproduced, except in full, without written approval from Continental Analytical Services, Inc.

Thank you for choosing Continental for this project.

CONTINENTAL ANALYTICAL SERVICES, INC.



Clifford J. Baker
Technical Manager



Gregory J. Groene
Project Manager



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830
KDHE Environmental Laboratory Accreditation No. E-10146



Sample Results

Client: City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 06/20/2014
 Date Received: 06/07/2014
 Continental File No: 8339
 Continental Order No: 119191

Lab Number: 14060666
 Sample Description: LA@N. Meridian

Date Sampled: 06/07/2014
 Time Sampled: 0900

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420 II	MPN/100 mL	7336/846
Kjeldahl Nitrogen, as N (TKN)	3.22	mg/L	7321/543
Nitrate/Nitrite, as N (FIA)	1.64	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	4.86	mg/L	9996/339
Orthophosphate, as P	0.3	mg/L	7182/290
Phosphorus, Total, as P	ND(0.04) J	mg/L	7321/540
Solids, Total Suspended	860.	mg/L	7320/968
Turbidity	>1000	NTU	7013/50

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/07/14 1510	140607-1	140607-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/17/14 1045	06/18/14 1527	140617-1	140618-8	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1124	140619-1	140619-2	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/20/14 0833	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/07/14 1554	140607-1	140607-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/18/14 836	140618-1	140618-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/12/14 1514	140612-2	140612-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/08/14 2320	140608-1	140608-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060666

Appendix

Page: 3

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119191

ND(), where reported, indicates the analyte was not detected above the Limit of Quantitation (LOQ). The concentration of the LOQ is inside the parentheses.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14060666	E. Coli	06/07/2014 0900	06/07/2014 1510	6:10
14060666	Orthophosphate, as P	06/07/2014 0900	06/07/2014 1554	6:54
14060666	Turbidity	06/07/2014 0900	06/08/2014 2320	38:20

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

Accreditation Summary

Page: 4

Client: City of Wichita
Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119191

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. Continental is NELAP accredited for each matrix/analyte/method and EPA program cited in this Laboratory Report, except for those listed in the table below and for analyses performed in the field. For most of the analyses listed in the table, NELAP accreditation is not offered under the listed EPA program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA program. Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>CAS NELAP Accredited in Other Reg. Program</u>
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	No

Quality Control Report Batch Summary

Page: 5

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119191

Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL347	E. Coli	140607-1	140607BLK1 06/07/14 1510	N/A	14060661MS 06/07/14 1510
Lab numbers associated with this batch: 14060666					
GL595	Kjeldahl Nitrogen, as N (TKN)	140617-1	140617BLK1 06/18/14 1456	140617LCS1 06/18/14 1458	14060663MS 06/18/14 1522
Lab numbers associated with this batch: 14060666					
GL192	Nitrate/Nitrite, as N (FIA)	140619-1	140619BLK1 06/19/14 1109	140619LCS1 06/19/14 1110	14060823MS 06/19/14 1140
Lab numbers associated with this batch: 14060666					
GL343	Nitrogen (TKN + NO3/NO2), as N		N/A	N/A	
Lab numbers associated with this batch: 14060666					
GL176	Orthophosphate, as P	140607-1	140607BLK1 06/07/14 1550	140607LCS1 06/07/14 1551	14060667MS 06/07/14 1552
Lab numbers associated with this batch: 14060666					
GL218	Phosphorus, Total, as P	140618-1	140618BLK1 06/18/14 0831	140618LCS1 06/18/14 0832	14060753MS 06/18/14 0844
Lab numbers associated with this batch: 14060666					
GL243	Solids, Total Suspended	140612-2	140612BLK2 06/12/14 1513	N/A	14060663MS 06/12/14 1513
Lab numbers associated with this batch: 14060666					
GL275	Turbidity	140608-1	140608BLK1 06/08/14 2308	140608LCS1 06/08/14 2309	14060661MS 06/08/14 2309
Lab numbers associated with this batch: 14060666					

Quality Control Report
Method Blank, LCS, MS/MSD Data

Page: 6

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119191

Analysis	Blank Data	% Rec		Spike Level	Units	Spiked Sample (% Recovery)		Limits	Spike Level	Units	Spiked Sample Precision Data	
		LCS	Limits			MS	MSD				RPD	Limit
QC Batch: 140607-1 E. Coli	For sample analyzed on: 06/07/2014 ND(1) II					Spiked sample: 14060661		#	N/A	MPN/10	**	127
	N/A	#	N/A	MPN/10	MN	MN						
QC Batch: 140607-1 Orthophosphate, as P	For sample analyzed on: 06/07/2014 ND(0.1)					Spiked sample: 14060667		87.6-109	0.50	mg/L	**	5.9
	98.0	90.0-110	0.50	mg/L	MN	MN						
QC Batch: 140608-1 Turbidity	For sample analyzed on: 06/08/2014 ND(0.50)					Spiked sample: 14060661		#	N/A	NTU	**	6.0
	99.8	90.0-110	48.1	NTU	MN	MN						
QC Batch: 140612-2 Solids, Total Suspended	For sample analyzed on: 06/12/2014 ND(5)					Spiked sample: 14060663		#	N/A	mg/L	**	23.7
	N/A	#	N/A	mg/L	MN	MN						
QC Batch: 140617-1 Kjeldahl Nitrogen, as N (TKN)	For samples prepared on: 06/17/2014 1045 ND(0.50)					Spiked sample: 14060663		52.9-133	4.0	mg/L	**	17.2
	95.8	90.0-110	4.0	mg/L	MN	MN						
QC Batch: 140618-1 Phosphorus, Total, as P	For sample analyzed on: 06/18/2014 ND(0.04) J					Spiked sample: 14060753		66.4-125	2.0	mg/L	**	14.1
	102	90.0-110	2.0	mg/L	MN	MN						
QC Batch: 140619-1 Nitrate/Nitrite, as N (FIA)	For sample analyzed on: 06/19/2014 ND(0.10)					Spiked sample: 14060823		88.9-111	40.0	mg/L	**	3.5
	101	90.0-110	2.0	mg/L	MN	MN						

Data Qualifiers:

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

MN - The MS/MSD sample analyses were not performed on a sample from this Continental order number.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

- Limits not applicable/not available for this analysis.

** - RPD calculation not applicable/not available for this analysis.

Quality Control Report
Continuing Calibration Report

Page: 7

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119191

<u>Analysis</u>	<u>Date of</u> <u>Analysis</u>	<u>Instrument</u> <u>Batch ID</u>	<u>Amount in</u> <u>Standard</u>	<u>Amount</u> <u>Detected</u>	<u>Units</u>	<u>Percent</u> <u>Recovery</u>
Orthophosphate, as P	06/07/2014	140607-2	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P	06/07/2014	140607-3	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-2	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-3	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-1	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-3	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-8	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-9	CCV recovery acceptable for this			Instrument Batch.

- Laboratory Report Conclusion -

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 11919

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

CA @ N. Meridian
Ark @ 53rd St N.
E. Dishon @ N. Hillside

CA @ Central
Casskin @ 1354th St W

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 2 / Client's Cooler / Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedEx / AB Express / Field Svcs / Mail / Walk-In / Other: GSJ

Custody Seal: Present: Intact Broken Absent: Seal No: 2 Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.1 Corrected Reading (°C) 1.7

Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: SBS Thermo. Correction Factor (°C): 10.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input type="checkbox"/> Missing relinquished information: signature date time | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 6/7/14



6/9/2014

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Received: 6/7/2014
CAS File No.: 8339
CAS Order No.: 119192
Your P.O./Project No.:

Purchase Auth: BP240122

Re: Laboratory Receipt of Samples

Dear Mr. Hardesty:

Continental Analytical Services, Inc., received your sample(s) on the date referenced above. The enclosed Test Assignment Review Sheet(s) detail the test(s) and regulatory program that have been assigned to each sample. Also enclosed is the Billing Review Sheet itemizing the anticipated charges for the samples under this order. Please contact me directly at (800)535-3076 if corrections are necessary or fax (785)823-7830/email this letter to deny authorization to proceed with analysis. All samples on the order have been scheduled for Standard Turnaround.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

Please review the Test Assignment Review Sheet(s) and the Cooler/Sample Receipt Form(s), if enclosed, for discrepancies. Continental will proceed with analysis unless you inform us otherwise. If you DO NOT want the analysis performed please sign, date and return this form to Continental.

Name _____ Date _____

Our Terms and Conditions of Sale are located on our website: www.cas-lab.com. These Terms and Conditions will be in effect unless a separate contractual agreement has been made. Samples will be retained by the laboratory for 30 days following issuance of the final report unless an alternate arrangement is agreed to in writing.

Thank you for choosing Continental Analytical Services, Inc. If you have any questions, or require assistance, please contact me directly at (800)535-3076.

CONTINENTAL ANALYTICAL SERVICES, INC.

Gregory J. Groene
Project Manager
Email: gjgroene@cas-lab.com

CONTINENTAL ANALYTICAL SERVICES, INC.
525 N. Eighth St. - SALINA, KANSAS 67401
(800)535-3076 - (785)827-1273
FED ID #48-1062249

BILLING REVIEW SHEET

This is not an invoice.

The invoice will be issued following the final laboratory report.

Page: 1

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: Date Sample(s) Recd: 6/7/2014 CAS File No: 8339 CAS Order No: 119192 PO/Proj. No: Stormwater Purchase Auth.: BP240122
---------	---	---

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
Nitrogen (TKN + NO3/NO2), as N	1	0.00	0.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Accreditation Summary Report

Client: City of Wichita
CAS Order Number: 119192

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. The table below summarizes Continental's NELAP accreditation status for each requested test for the matrix and regulatory program indicated. If an analyte is listed as Other Reg. Program, NELAP accreditation is not offered under the listed EPA regulatory program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA regulatory program. If an analyte is listed as None then Continental is not accredited for that analyte (normally NELAC accreditation is not available). Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>Certification</u>
GL176	Orthophosphate, as P	L-NPDES	4500-P(E)-1999	KS
GL192	Nitrate/Nitrite, as N (FIA)	L-NPDES	4500-NO3(F)-2000	KS
GL218	Phosphorus, Total, as P	L-NPDES	4500-P(B&G)-1999	KS
GL243	Solids, Total Suspended	L-NPDES	SM 2540 (D)-1997	KS
GL275	Turbidity	L-NPDES	SM 2130 (B)-2001	KS
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	None
GL347	E. Coli	L-NPDES	SM 9223B Colilert	KS
GL595	Kjeldahl Nitrogen, as N (TKN)	L-NPDES	EPA 351.2	KS

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119192

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

Coastal @ MacArthur
Ark @ 83rd St S
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christholm @ Paines
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: None

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9
Temperature By: Temperature Blank Surface Temperature
Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input checked="" type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input checked="" type="checkbox"/> Missing relinquished information: signature date time | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments: year missing on date sampled

Completed by: ALP Date Completed: 6/7/14

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date:	6/23/2014
		Date Sample(s) Recd:	6/7/2014
		CAS File No:	8339
		CAS Order No:	119192
		PO/Proj. No:	Stormwater
		Purchase Auth.:	BP240122

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75

TERMS: Net 30 days from the date of invoice. Interest will be charged on past due accounts at the rate of 1.5% per month on unpaid account balance (annual percentage rate of 18%).

VISA, MasterCard and American Express Accepted. For your protection, our company does not accept credit card numbers via email.



525 N. Eighth St. - Salina, KS 67401
 785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119192

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

Coastal @ MacArthur
Ark @ 83rd St S
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christholm @ Paines
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: Signature

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9
Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter
 - Container
 - PO
 - CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments: year missing on date sampled

Completed by: APL Date Completed: 6/7/14

06/20/2014

Page: 1

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date and Time Received: 06/07/2014 1330
Continental File No.: 8339
Continental Order No.: 119192
Project ID: Stormwater
Purchase Auth: BP240122

Dear Mr. Hardesty:

This laboratory report, containing the samples indicated below, includes 7 pages for the analytical report, 1 page(s) for the chain of custody and/or analysis request, and 1 page(s) for the sample receipt form.

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>SAMPLE TYPE</u>	<u>DATE SAMPLED</u>
14060667	S. Slough@Hydraulic	Liquid	6/7/2014

The Appendix and Quality Control sections are integral parts of this laboratory report and may contain important data qualifiers.

All results are reported on a wet weight basis unless otherwise stated.

Samples will be retained for thirty days unless Continental is otherwise notified.

Continental is accredited by the State of Kansas through the National Environmental Laboratory Accreditation Program (NELAP). The results contained in this report were obtained using Continental's Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standards published by NELAP unless otherwise noted in the Appendix and Quality Control sections of this report.

This report may not be reproduced, except in full, without written approval from Continental Analytical Services, Inc.

Thank you for choosing Continental for this project.

CONTINENTAL ANALYTICAL SERVICES, INC.



Clifford J. Baker
Technical Manager



Gregory J. Groene
Project Manager



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830
KDHE Environmental Laboratory Accreditation No. E-10146



Sample Results

Page: 2

Client: City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 06/20/2014
 Date Received: 06/07/2014
 Continental File No: 8339
 Continental Order No: 119192

Lab Number: 14060667
 Sample Description: S. Slough@Hydraulic

Date Sampled: 06/07/2014
 Time Sampled: 0919

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420 II	MPN/100 mL	7336/846
Kjeldahl Nitrogen, as N (TKN)	0.64	mg/L	7321/543
Nitrate/Nitrite, as N (FIA)	0.30	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	0.94	mg/L	9996/339
Orthophosphate, as P	0.09 J	mg/L	7182/290
Phosphorus, Total, as P	0.16 J	mg/L	7321/540
Solids, Total Suspended	51	mg/L	7320/968
Turbidity	35.1	NTU	7013/50

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/07/14 1510	140607-1	140607-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/17/14 1045	06/18/14 1528	140617-1	140618-8	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1126	140619-1	140619-2	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/20/14 0833	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/07/14 1551	140607-1	140607-1	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/18/14 837	140618-1	140618-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/12/14 1514	140612-2	140612-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/08/14 2313	140608-1	140608-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060667

Appendix

Page: 3

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119192

ND(), where reported, indicates the analyte was not detected above the Limit of Quantitation (LOQ). The concentration of the LOQ is inside the parentheses.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14060667	E. Coli	06/07/2014 0919	06/07/2014 1510	5:51
14060667	Orthophosphate, as P	06/07/2014 0919	06/07/2014 1551	6:32
14060667	Turbidity	06/07/2014 0919	06/08/2014 2313	37:54

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

Accreditation Summary

Page: 4

Client: City of Wichita
Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119192

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. Continental is NELAP accredited for each matrix/analyte/method and EPA program cited in this Laboratory Report, except for those listed in the table below and for analyses performed in the field. For most of the analyses listed in the table, NELAP accreditation is not offered under the listed EPA program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA program. Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>CAS NELAP Accredited in Other Reg. Program</u>
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	No

Quality Control Report Batch Summary

Page: 5

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119192

Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL347	E. Coli	140607-1	140607BLK1 06/07/14 1510	N/A	14060661MS 06/07/14 1510
Lab numbers associated with this batch: 14060667					
GL595	Kjeldahl Nitrogen, as N (TKN)	140617-1	140617BLK1 06/18/14 1456	140617LCS1 06/18/14 1458	14060663MS 06/18/14 1522
Lab numbers associated with this batch: 14060667					
GL192	Nitrate/Nitrite, as N (FIA)	140619-1	140619BLK1 06/19/14 1109	140619LCS1 06/19/14 1110	14060823MS 06/19/14 1140
Lab numbers associated with this batch: 14060667					
GL343	Nitrogen (TKN + NO3/NO2), as N		N/A	N/A	
Lab numbers associated with this batch: 14060667					
GL176	Orthophosphate, as P	140607-1	140607BLK1 06/07/14 1550	140607LCS1 06/07/14 1551	14060667MS 06/07/14 1552
Lab numbers associated with this batch: 14060667					
GL218	Phosphorus, Total, as P	140618-1	140618BLK1 06/18/14 0831	140618LCS1 06/18/14 0832	14060753MS 06/18/14 0844
Lab numbers associated with this batch: 14060667					
GL243	Solids, Total Suspended	140612-2	140612BLK2 06/12/14 1513	N/A	14060663MS 06/12/14 1513
Lab numbers associated with this batch: 14060667					
GL275	Turbidity	140608-1	140608BLK1 06/08/14 2308	140608LCS1 06/08/14 2309	14060661MS 06/08/14 2309
Lab numbers associated with this batch: 14060667					

Quality Control Report
Method Blank, LCS, MS/MSD Data

Page: 6

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119192

Analysis	Blank Data	% Rec		Spike Level	Units	Spiked Sample (% Recovery)		Limits	Spike Level	Units	Spiked Sample Precision Data	
		LCS	Limits			MS	MSD				RPD	Limit
QC Batch: 140607-1 E. Coli	For sample analyzed on: 06/07/2014 ND(1) II					Spiked sample: 14060661		#	N/A	MPN/10	**	127
	N/A	#	N/A	MPN/10	MN	MN						
QC Batch: 140607-1 Orthophosphate, as P	For sample analyzed on: 06/07/2014 ND(0.1)					Spiked sample: 14060667		87.6-109	0.50	mg/L	0.10	5.9
	98.0	90.0-110	0.50	mg/L	96.6	96.6						
QC Batch: 140608-1 Turbidity	For sample analyzed on: 06/08/2014 ND(0.50)					Spiked sample: 14060661		#	N/A	NTU	**	6.0
	99.8	90.0-110	48.1	NTU	MN	MN						
QC Batch: 140612-2 Solids, Total Suspended	For sample analyzed on: 06/12/2014 ND(5)					Spiked sample: 14060663		#	N/A	mg/L	**	23.7
	N/A	#	N/A	mg/L	MN	MN						
QC Batch: 140617-1 Kjeldahl Nitrogen, as N (TKN)	For samples prepared on: 06/17/2014 1045 ND(0.50)					Spiked sample: 14060663		52.9-133	4.0	mg/L	**	17.2
	95.8	90.0-110	4.0	mg/L	MN	MN						
QC Batch: 140618-1 Phosphorus, Total, as P	For sample analyzed on: 06/18/2014 ND(0.04) J					Spiked sample: 14060753		66.4-125	2.0	mg/L	**	14.1
	102	90.0-110	2.0	mg/L	MN	MN						
QC Batch: 140619-1 Nitrate/Nitrite, as N (FIA)	For sample analyzed on: 06/19/2014 ND(0.10)					Spiked sample: 14060823		88.9-111	40.0	mg/L	**	3.5
	101	90.0-110	2.0	mg/L	MN	MN						

Data Qualifiers:

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

MN - The MS/MSD sample analyses were not performed on a sample from this Continental order number.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

- Limits not applicable/not available for this analysis.

** - RPD calculation not applicable/not available for this analysis.

Quality Control Report
Continuing Calibration Report

Page: 7

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119192

<u>Analysis</u>	<u>Date of</u> <u>Analysis</u>	<u>Instrument</u> <u>Batch ID</u>	<u>Amount in</u> <u>Standard</u>	<u>Amount</u> <u>Detected</u>	<u>Units</u>	<u>Percent</u> <u>Recovery</u>
Orthophosphate, as P	06/07/2014	140607-1	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P	06/07/2014	140607-2	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-2	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-3	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-1	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-1	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-2	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-8	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-9	CCV recovery acceptable for this			Instrument Batch.

- Laboratory Report Conclusion -

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119192

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler:

Coastal @ MacArthur
Ark @ 83rd St S
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christholm @ Paines
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: Delivered

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9

Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: SBS Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter
 - Container
 - PO
 - CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time _____
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments: year missing on date sampled

Completed by: APL Date Completed: 6/7/14

6/10/2014

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Received: 6/7/2014
CAS File No.: 8339
CAS Order No.: 119193
Your P.O./Project No.:

Purchase Auth: BP240122

Re: Laboratory Receipt of Samples

Dear Mr. Hardesty:

Continental Analytical Services, Inc., received your sample(s) on the date referenced above. The enclosed Test Assignment Review Sheet(s) detail the test(s) and regulatory program that have been assigned to each sample. Also enclosed is the Billing Review Sheet itemizing the anticipated charges for the samples under this order. Please contact me directly at (800)535-3076 if corrections are necessary or fax (785)823-7830/email this letter to deny authorization to proceed with analysis. All samples on the order have been scheduled for Standard Turnaround.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

Please review the Test Assignment Review Sheet(s) and the Cooler/Sample Receipt Form(s), if enclosed, for discrepancies. Continental will proceed with analysis unless you inform us otherwise. If you DO NOT want the analysis performed please sign, date and return this form to Continental.

Name _____ Date _____

Our Terms and Conditions of Sale are located on our website: www.cas-lab.com. These Terms and Conditions will be in effect unless a separate contractual agreement has been made. Samples will be retained by the laboratory for 30 days following issuance of the final report unless an alternate arrangement is agreed to in writing.

Thank you for choosing Continental Analytical Services, Inc. If you have any questions, or require assistance, please contact me directly at (800)535-3076.

CONTINENTAL ANALYTICAL SERVICES, INC.

Gregory J. Groene
Project Manager
Email: gjgroene@cas-lab.com

CONTINENTAL ANALYTICAL SERVICES, INC.
525 N. Eighth St. - SALINA, KANSAS 67401
(800)535-3076 - (785)827-1273
FED ID #48-1062249

BILLING REVIEW SHEET

This is not an invoice.

The invoice will be issued following the final laboratory report.

Page: 1

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: Date Sample(s) Recd: 6/7/2014 CAS File No: 8339 CAS Order No: 119193 PO/Proj. No: Stormwater Purchase Auth.: BP240122
---------	---	---

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
Nitrogen (TKN + NO3/NO2), as N	1	0.00	0.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Accreditation Summary Report

Client: City of Wichita
CAS Order Number: 119193

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. The table below summarizes Continental's NELAP accreditation status for each requested test for the matrix and regulatory program indicated. If an analyte is listed as Other Reg. Program, NELAP accreditation is not offered under the listed EPA regulatory program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA regulatory program. If an analyte is listed as None then Continental is not accredited for that analyte (normally NELAC accreditation is not available). Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix- Regulatory Program</u>	<u>Method</u>	<u>Certification</u>
GL176	Orthophosphate, as P	L-NPDES	4500-P(E)-1999	KS
GL192	Nitrate/Nitrite, as N (FIA)	L-NPDES	4500-NO3(F)-2000	KS
GL218	Phosphorus, Total, as P	L-NPDES	4500-P(B&G)-1999	KS
GL243	Solids, Total Suspended	L-NPDES	SM 2540 (D)-1997	KS
GL275	Turbidity	L-NPDES	SM 2130 (B)-2001	KS
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	None
GL347	E. Coli	L-NPDES	SM 9223B Colilert	KS
GL595	Kjeldahl Nitrogen, as N (TKN)	L-NPDES	EPA 351.2	KS

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.:

119193

Client Name: Wichita

CAS File No.:

8339

Sample ID's in cooler:

Casskn @ MacArthur
Ark @ 83rd St. S
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christopher @ Preece
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedEx / AB Express / Field Svcs / Mail / Walk-In / Other: None

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input checked="" type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input checked="" type="checkbox"/> Missing relinquished information: <u>signature</u> date time _____ | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments: year missing off date sampled

Completed by: [Signature] Date Completed: 10-9-14

Client:	City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date:	6/23/2014
		Date Sample(s) Recd:	6/7/2014
		CAS File No:	8339
		CAS Order No:	119193
		PO/Proj. No:	Stormwater
		Purchase Auth.:	BP240122

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	1	15.00	15.00
Nitrate/Nitrite, as N (FIA)	1	11.25	11.25
Phosphorus, Total, as P	1	24.00	24.00
Solids, Total Suspended	1	11.25	11.25
Turbidity	1	15.00	15.00
E. Coli	1	30.00	30.00
Kjeldahl Nitrogen, as N (TKN)	1	26.25	26.25

Amount Due: 132.75

TERMS: Net 30 days from the date of invoice. Interest will be charged on past due accounts at the rate of 1.5% per month on unpaid account balance (annual percentage rate of 18%).

VISA, MasterCard and American Express Accepted. For your protection, our company does not accept credit card numbers via email.



525 N. Eighth St. - Salina, KS 67401
 785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.:

119193

Client Name: Wichita

CAS File No.:

8339

Sample ID's in cooler:

Casskn @ MacArthur
Ark @ 83rd St. S
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christopher @ Pounce
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedEx / AB Express / Field Svcs / Mail / Walk-In / Other: None

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input checked="" type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input checked="" type="checkbox"/> Missing relinquished information: <u>signature</u> date time _____ | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments: year missing off date sampled

Completed by: [Signature] Date Completed: 10-9-14

06/20/2014

Page: 1

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date and Time Received: 06/07/2014 1330
Continental File No.: 8339
Continental Order No.: 119193
Project ID: Stormwater
Purchase Auth: BP240122

Dear Mr. Hardesty:

This laboratory report, containing the samples indicated below, includes 7 pages for the analytical report, 1 page(s) for the chain of custody and/or analysis request, and 1 page(s) for the sample receipt form.

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>SAMPLE TYPE</u>	<u>DATE SAMPLED</u>
14060668	S. Slough@Meridian	Liquid	6/7/2014

The Appendix and Quality Control sections are integral parts of this laboratory report and may contain important data qualifiers.

All results are reported on a wet weight basis unless otherwise stated.

Samples will be retained for thirty days unless Continental is otherwise notified.

Continental is accredited by the State of Kansas through the National Environmental Laboratory Accreditation Program (NELAP). The results contained in this report were obtained using Continental's Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standards published by NELAP unless otherwise noted in the Appendix and Quality Control sections of this report.

This report may not be reproduced, except in full, without written approval from Continental Analytical Services, Inc.

Thank you for choosing Continental for this project.

CONTINENTAL ANALYTICAL SERVICES, INC.



Clifford J. Baker
Technical Manager



Gregory J. Groene
Project Manager



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830
KDHE Environmental Laboratory Accreditation No. E-10146



Sample Results

Page: 2

Client: City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 06/20/2014
 Date Received: 06/07/2014
 Continental File No: 8339
 Continental Order No: 119193

Lab Number: 14060668
 Sample Description: S. Slough@Meridian

Date Sampled: 06/07/2014
 Time Sampled: 0840

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420 II	MPN/100 mL	7336/846
Kjeldahl Nitrogen, as N (TKN)	0.70	mg/L	7321/543
Nitrate/Nitrite, as N (FIA)	0.34	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	1.04	mg/L	9996/339
Orthophosphate, as P	0.1	mg/L	7182/290
Phosphorus, Total, as P	0.05 J	mg/L	7321/540
Solids, Total Suspended	26	mg/L	7320/968
Turbidity	30.7	NTU	7013/50

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/07/14 1510	140607-1	140607-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/17/14 1045	06/18/14 1532	140617-1	140618-9	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1127	140619-1	140619-2	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/20/14 0833	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/07/14 1552	140607-1	140607-1	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/18/14 838	140618-1	140618-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/12/14 1514	140612-2	140612-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/08/14 2316	140608-1	140608-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060668

Appendix

Page: 3

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119193

ND(), where reported, indicates the analyte was not detected above the Limit of Quantitation (LOQ). The concentration of the LOQ is inside the parentheses.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14060668	E. Coli	06/07/2014 0840	06/07/2014 1510	6:30
14060668	Orthophosphate, as P	06/07/2014 0840	06/07/2014 1552	7:12
14060668	Turbidity	06/07/2014 0840	06/08/2014 2316	38:36

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

Accreditation Summary

Client: City of Wichita
Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119193

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. Continental is NELAP accredited for each matrix/analyte/method and EPA program cited in this Laboratory Report, except for those listed in the table below and for analyses performed in the field. For most of the analyses listed in the table, NELAP accreditation is not offered under the listed EPA program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA program. Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>CAS NELAP Accredited in Other Reg. Program</u>
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	No

Quality Control Report Batch Summary

Page: 5

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119193

Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL347	E. Coli	140607-1	140607BLK1 06/07/14 1510	N/A	14060661MS 06/07/14 1510
Lab numbers associated with this batch: 14060668					
GL595	Kjeldahl Nitrogen, as N (TKN)	140617-1	140617BLK1 06/18/14 1456	140617LCS1 06/18/14 1458	14060663MS 06/18/14 1522
Lab numbers associated with this batch: 14060668					
GL192	Nitrate/Nitrite, as N (FIA)	140619-1	140619BLK1 06/19/14 1109	140619LCS1 06/19/14 1110	14060823MS 06/19/14 1140
Lab numbers associated with this batch: 14060668					
GL343	Nitrogen (TKN + NO3/NO2), as N		N/A	N/A	
Lab numbers associated with this batch: 14060668					
GL176	Orthophosphate, as P	140607-1	140607BLK1 06/07/14 1550	140607LCS1 06/07/14 1551	14060667MS 06/07/14 1552
Lab numbers associated with this batch: 14060668					
GL218	Phosphorus, Total, as P	140618-1	140618BLK1 06/18/14 0831	140618LCS1 06/18/14 0832	14060753MS 06/18/14 0844
Lab numbers associated with this batch: 14060668					
GL243	Solids, Total Suspended	140612-2	140612BLK2 06/12/14 1513	N/A	14060663MS 06/12/14 1513
Lab numbers associated with this batch: 14060668					
GL275	Turbidity	140608-1	140608BLK1 06/08/14 2308	140608LCS1 06/08/14 2309	14060661MS 06/08/14 2309
Lab numbers associated with this batch: 14060668					

Quality Control Report
Method Blank, LCS, MS/MSD Data

Page: 6

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119193

Analysis	Blank Data	% Rec		Spike Level	Units	Spiked Sample (% Recovery)		Limits	Spike Level	Units	Spiked Sample Precision Data	
		LCS	Limits			MS	MSD				RPD	Limit
QC Batch: 140607-1 E. Coli	For sample analyzed on: 06/07/2014 ND(1) II					Spiked sample: 14060661		#	N/A	MPN/10	**	127
	N/A	#	N/A	MPN/10	MN	MN						
QC Batch: 140607-1 Orthophosphate, as P	For sample analyzed on: 06/07/2014 ND(0.1)					Spiked sample: 14060667		87.6-109	0.50	mg/L	**	5.9
	98.0	90.0-110	0.50	mg/L	MN	MN						
QC Batch: 140608-1 Turbidity	For sample analyzed on: 06/08/2014 ND(0.50)					Spiked sample: 14060661		#	N/A	NTU	**	6.0
	99.8	90.0-110	48.1	NTU	MN	MN						
QC Batch: 140612-2 Solids, Total Suspended	For sample analyzed on: 06/12/2014 ND(5)					Spiked sample: 14060663		#	N/A	mg/L	**	23.7
	N/A	#	N/A	mg/L	MN	MN						
QC Batch: 140617-1 Kjeldahl Nitrogen, as N (TKN)	For samples prepared on: 06/17/2014 1045 ND(0.50)					Spiked sample: 14060663		52.9-133	4.0	mg/L	**	17.2
	95.8	90.0-110	4.0	mg/L	MN	MN						
QC Batch: 140618-1 Phosphorus, Total, as P	For sample analyzed on: 06/18/2014 ND(0.04) J					Spiked sample: 14060753		66.4-125	2.0	mg/L	**	14.1
	102	90.0-110	2.0	mg/L	MN	MN						
QC Batch: 140619-1 Nitrate/Nitrite, as N (FIA)	For sample analyzed on: 06/19/2014 ND(0.10)					Spiked sample: 14060823		88.9-111	40.0	mg/L	**	3.5
	101	90.0-110	2.0	mg/L	MN	MN						

Data Qualifiers:

II - The incubation period for this analysis did not meet method requirements. The result is estimated.

MN - The MS/MSD sample analyses were not performed on a sample from this Continental order number.

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

- Limits not applicable/not available for this analysis.

** - RPD calculation not applicable/not available for this analysis.

Quality Control Report
Continuing Calibration Report

Page: 7

Client: City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Reported: 06/20/2014
Date Received: 06/07/2014
Continental File No: 8339
Continental Order No: 119193

<u>Analysis</u>	<u>Date of</u> <u>Analysis</u>	<u>Instrument</u> <u>Batch ID</u>	<u>Amount in</u> <u>Standard</u>	<u>Amount</u> <u>Detected</u>	<u>Units</u>	<u>Percent</u> <u>Recovery</u>
Orthophosphate, as P	06/07/2014	140607-1	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P	06/07/2014	140607-2	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-2	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-3	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-1	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/18/2014	140618-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/08/2014	140608-3	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-10	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/18/2014	140618-9	CCV recovery acceptable for this			Instrument Batch.

- Laboratory Report Conclusion -

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.:

119193

Client Name: Wichita

CAS File No.:

8339

Sample ID's in cooler:

Casskn @ MacArthur
Ark @ 83rd St. S
Gypsum @ Eastern
Gypsum @ Hillside

S. Slough @ Meridian
Christopher @ Preece
S. Slough @ Hydraulic

Cooler 1 of 1 for this CAS Order No.

Cooler Identification: CAS Cooler #: 1 Client's Cooler Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6/7/14 13:30

Delivered By: UPS / FedEx / AB Express / Field Svcs / Mail / Walk-In / Other: None

Custody Seal: Present Intact Broken Absent: _____ Seal No: 1
Seal Name: _____ Seal Date: 6/7/14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.9
Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: 585 Thermo. Correction Factor (°C): +0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input checked="" type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input checked="" type="checkbox"/> Missing relinquished information: <u>signature</u> date time _____ | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments: year missing off date sampled

Completed by: [Signature] Date Completed: 10-9-14

City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date and Time Received: 06/12/2014 1425
 Continental File No.: 8339
 Continental Order No.: 119304
 Purchase Auth: BP240122

Dear Mr. Hardesty:

This laboratory report, containing the samples indicated below, includes 17 pages for the analytical report, 12 page(s) for the chain of custody and/or analysis request, and 2 page(s) for the sample receipt form.

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>SAMPLE TYPE</u>	<u>DATE SAMPLED</u>
14060982	Ark@53rd St N.	Liquid	6/12/2014
14060983	Ark@83rd St S.	Liquid	6/12/2014
14060984	E. Chisholm@N. Hillside	Liquid	6/12/2014
14060985	Chisholm@Pawnee	Liquid	6/12/2014
14060986	Cowskin@135th St W.	Liquid	6/12/2014
14060987	Cowskin@MacArthur	Liquid	6/12/2014
14060988	Gypsum@Eastern	Liquid	6/12/2014
14060989	Gypsum@Hillside	Liquid	6/12/2014
14060990	LA@N. Meridian	Liquid	6/12/2014
14060991	LA@Central	Liquid	6/12/2014
14060992	S. Slough@Meridian	Liquid	6/12/2014
14060993	S. Slough@Hydraulic	Liquid	6/12/2014

The Appendix and Quality Control sections are integral parts of this laboratory report and may contain important data qualifiers.

All results are reported on a wet weight basis unless otherwise stated.

Samples will be retained for thirty days unless Continental is otherwise notified.

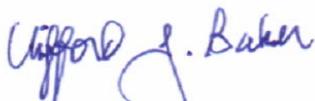
Continental is accredited by the State of Kansas through the National Environmental Laboratory Accreditation Program (NELAP). The results contained in this report were obtained using Continental's Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standards published by NELAP unless otherwise noted in the Appendix and Quality Control sections of this report.

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Thank you for choosing Continental for this project.



CONTINENTAL ANALYTICAL SERVICES, INC.



Clifford J. Baker
Technical Manager



Gregory J. Groene
Project Manager



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KDHE Environmental Laboratory Accreditation No. E-10146



Sample Results

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Date Reported: 06/27/2014
 Date Received: 06/12/2014
 Continental File No: 8339
 Continental Order No: 119304

Lab Number: 14060982
 Sample Description: Ark@53rd St N.

Date Sampled: 06/12/2014
 Time Sampled: 0843

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	579	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.94	mg/L	7321/550
Nitrate/Nitrite, as N (FIA)	0.57	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	2.51	mg/L	9996/351
Orthophosphate, as P	0.3	mg/L	7182/299
Phosphorus, Total, as P	0.14 J	mg/L	7321/553
Solids, Total Suspended	280.	mg/L	7320/980
Turbidity	297	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/23/14 1100	06/24/14 1241	140623-2	140624-5	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1239	140619-3	140619-7	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	06/24/14 1454	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1032	140613-1	140613-1	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1415	140626-1	140626-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1500	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1632	140613-1	140613-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060982

Lab Number: 14060983
 Sample Description: Ark@83rd St S.

Date Sampled: 06/12/2014
 Time Sampled: 0827

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	2420	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.77	mg/L	7321/554
Nitrate/Nitrite, as N (FIA)	1.18	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	2.95	mg/L	9996/359
Orthophosphate, as P	0.3	mg/L	7182/299
Phosphorus, Total, as P	0.62	mg/L	7321/553
Solids, Total Suspended	269	mg/L	7320/980
Turbidity	277	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert

-Continued-

Sample Results

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 Continental File No: 8339
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<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1141	140625-1	140627-1	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1240	140619-3	140619-7	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1033	140613-1	140613-1	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1416	140626-1	140626-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1501	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1633	140613-1	140613-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060983

Lab Number: 14060984
 Sample Description: E. Chisholm@N. Hillside

Date Sampled: 06/12/2014
 Time Sampled: 0817

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.07	mg/L	7321/554
Nitrate/Nitrite, as N (FIA)	0.40	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	1.47	mg/L	9996/359
Orthophosphate, as P	0.1	mg/L	7182/299
Phosphorus, Total, as P	0.28	mg/L	7321/553
Solids, Total Suspended	138	mg/L	7320/980
Turbidity	115	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1143	140625-1	140627-1	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1241	140619-3	140619-7	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1033	140613-1	140613-1	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1417	140626-1	140626-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1501	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1635	140613-1	140613-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060984

Sample Results

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Date Reported: 06/27/2014
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 Continental Order No: 119304

Lab Number: 14060985
 Sample Description: Chisholm@Pawnee

Date Sampled: 06/12/2014
 Time Sampled: 0905

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.60	mg/L	7321/554
Nitrate/Nitrite, as N (FIA)	0.44	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	2.04	mg/L	9996/359
Orthophosphate, as P	0.06J	mg/L	7182/299
Phosphorus, Total, as P	0.19 J	mg/L	7321/553
Solids, Total Suspended	450.	mg/L	7320/980
Turbidity	457	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1144	140625-1	140627-1	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1242	140619-3	140619-7	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1034	140613-1	140613-1	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1418	140626-1	140626-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1501	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1636	140613-1	140613-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060985

Lab Number: 14060986
 Sample Description: Cowskin@135th St W.

Date Sampled: 06/12/2014
 Time Sampled: 0902

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	2.44	mg/L	7321/554
Nitrate/Nitrite, as N (FIA)	0.38	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	2.82	mg/L	9996/359
Orthophosphate, as P	0.4	mg/L	7182/299
Phosphorus, Total, as P	0.85	mg/L	7321/553
Solids, Total Suspended	235	mg/L	7320/980
Turbidity	355	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert

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Sample Results

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Date Reported: 06/27/2014
 Date Received: 06/12/2014
 Continental File No: 8339
 Continental Order No: 119304

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1145	140625-1	140627-1	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1243	140619-3	140619-7	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1034	140613-1	140613-1	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1418	140626-1	140626-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1501	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1639	140613-1	140613-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060986

Lab Number: 14060987
 Sample Description: Cowskin@MacArthur

Date Sampled: 06/12/2014
 Time Sampled: 0750

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	1550	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.72	mg/L	7321/554
Nitrate/Nitrite, as N (FIA)	0.86	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	2.58	mg/L	9996/359
Orthophosphate, as P	0.3	mg/L	7182/299
Phosphorus, Total, as P	0.06 J	mg/L	7321/553
Solids, Total Suspended	124	mg/L	7320/980
Turbidity	139	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1146	140625-1	140627-1	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1245	140619-3	140619-7	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1036	140613-1	140613-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1419	140626-1	140626-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1502	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1641	140613-1	140613-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060987

Sample Results

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Date Reported: 06/27/2014
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 Continental Order No: 119304

Lab Number: 14060988
 Sample Description: Gypsum@Eastern

Date Sampled: 06/12/2014
 Time Sampled: 0757

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.52	mg/L	7321/554
Nitrate/Nitrite, as N (FIA)	0.52	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	2.04	mg/L	9996/359
Orthophosphate, as P	0.2	mg/L	7182/299
Phosphorus, Total, as P	0.36	mg/L	7321/553
Solids, Total Suspended	77	mg/L	7320/980
Turbidity	65.7	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1148	140625-1	140627-1	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1248	140619-3	140619-8	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1037	140613-1	140613-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1421	140626-1	140626-3	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1502	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1642	140613-1	140613-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060988

Lab Number: 14060989
 Sample Description: Gypsum@Hillside

Date Sampled: 06/12/2014
 Time Sampled: 0853

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.44	mg/L	7321/554
Nitrate/Nitrite, as N (FIA)	0.48	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	1.92	mg/L	9996/359
Orthophosphate, as P	0.2	mg/L	7182/299
Phosphorus, Total, as P	0.33	mg/L	7321/553
Solids, Total Suspended	146	mg/L	7320/980
Turbidity	113	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert

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Sample Results

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Date Reported: 06/27/2014
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<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1149	140625-1	140627-1	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1249	140619-3	140619-8	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1037	140613-1	140613-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1422	140626-1	140626-3	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1502	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1643	140613-1	140613-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060989

Lab Number: 14060990
 Sample Description: LA@N. Meridian

Date Sampled: 06/12/2014
 Time Sampled: 0833

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	613	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.70	mg/L	7321/554
Nitrate/Nitrite, as N (FIA)	0.38	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	2.08	mg/L	9996/359
Orthophosphate, as P	0.4	mg/L	7182/299
Phosphorus, Total, as P	0.10 J	mg/L	7321/553
Solids, Total Suspended	332	mg/L	7320/980
Turbidity	356	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1150	140625-1	140627-1	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1253	140619-4	140619-8	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1038	140613-1	140613-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1423	140626-1	140626-3	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1502	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1645	140613-1	140613-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060990

Sample Results

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 Wichita, KS 67202

Date Reported: 06/27/2014
 Date Received: 06/12/2014
 Continental File No: 8339
 Continental Order No: 119304

Lab Number: 14060991
 Sample Description: LA@Central

Date Sampled: 06/12/2014
 Time Sampled: 0738

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	1120	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	1.81	mg/L	7321/555
Nitrate/Nitrite, as N (FIA)	0.72	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	2.53	mg/L	9996/359
Orthophosphate, as P	0.4	mg/L	7182/299
Phosphorus, Total, as P	0.60	mg/L	7321/553
Solids, Total Suspended	243	mg/L	7320/980
Turbidity	296	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1225	140625-1	140627-2	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1254	140619-4	140619-8	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1038	140613-1	140613-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1424	140626-1	140626-3	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1503	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1646	140613-1	140613-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060991

Lab Number: 14060992
 Sample Description: S. Slough@Meridian

Date Sampled: 06/12/2014
 Time Sampled: 0736

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	0.68	mg/L	7321/555
Nitrate/Nitrite, as N (FIA)	0.47	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	1.15	mg/L	9996/359
Orthophosphate, as P	0.1 J	mg/L	7182/299
Phosphorus, Total, as P	0.10 J	mg/L	7321/553
Solids, Total Suspended	64	mg/L	7320/980
Turbidity	46.6	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert

-Continued-

Sample Results

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<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1226	140625-1	140627-2	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1255	140619-4	140619-8	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1039	140613-1	140613-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1426	140626-2	140626-3	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1504	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1647	140613-1	140613-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060992

Lab Number: 14060993
 Sample Description: S. Slough@Hydraulic

Date Sampled: 06/12/2014
 Time Sampled: 0811

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7336/858
Kjeldahl Nitrogen, as N (TKN)	0.59	mg/L	7321/555
Nitrate/Nitrite, as N (FIA)	0.36	mg/L	7321/545
Nitrogen (TKN + NO3/NO2), as N	0.95	mg/L	9996/359
Orthophosphate, as P	0.06 J	mg/L	7182/299
Phosphorus, Total, as P	0.17 J	mg/L	7321/553
Solids, Total Suspended	28	mg/L	7320/980
Turbidity	35.9	NTU	7013/53

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	06/12/14 1505	140612-2	140612-2	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	06/25/14 1200	06/27/14 1228	140625-1	140627-2	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	06/19/14 1256	140619-4	140619-8	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	06/27/14 1455	N/A	N/A	CJB	Calculation
Orthophosphate, as P	N/A	06/13/14 1041	140613-1	140613-2	MLL	4500-P(E)-1999
Phosphorus, Total, as P	N/A	06/26/14 1427	140626-2	140626-3	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	06/19/14 1504	140619-1	140619-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	06/13/14 1648	140613-1	140613-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14060993

Appendix

Client: City of Wichita
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ND(), where reported, indicates the analyte was not detected above the Limit of Quantitation (LOQ). The concentration of the LOQ is inside the parentheses.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14060982	E. Coli	06/12/2014 0843	06/12/2014 1505	6:22
14060982	Orthophosphate, as P	06/12/2014 0843	06/13/2014 1032	25:49
14060982	Turbidity	06/12/2014 0843	06/13/2014 1632	31:49
14060983	E. Coli	06/12/2014 0827	06/12/2014 1505	6:38
14060983	Orthophosphate, as P	06/12/2014 0827	06/13/2014 1033	26:06
14060983	Turbidity	06/12/2014 0827	06/13/2014 1633	32:06
14060984	E. Coli	06/12/2014 0817	06/12/2014 1505	6:48
14060984	Orthophosphate, as P	06/12/2014 0817	06/13/2014 1033	26:16
14060984	Turbidity	06/12/2014 0817	06/13/2014 1635	32:18
14060985	E. Coli	06/12/2014 0905	06/12/2014 1505	6:00
14060985	Orthophosphate, as P	06/12/2014 0905	06/13/2014 1034	25:29
14060985	Turbidity	06/12/2014 0905	06/13/2014 1636	31:31
14060986	E. Coli	06/12/2014 0902	06/12/2014 1505	6:03
14060986	Orthophosphate, as P	06/12/2014 0902	06/13/2014 1034	25:32
14060986	Turbidity	06/12/2014 0902	06/13/2014 1639	31:37
14060987	E. Coli	06/12/2014 0750	06/12/2014 1505	7:15
14060987	Orthophosphate, as P	06/12/2014 0750	06/13/2014 1036	26:46
14060987	Turbidity	06/12/2014 0750	06/13/2014 1641	32:51
14060988	E. Coli	06/12/2014 0757	06/12/2014 1505	7:08
14060988	Orthophosphate, as P	06/12/2014 0757	06/13/2014 1037	26:40
14060988	Turbidity	06/12/2014 0757	06/13/2014 1642	32:45
14060989	E. Coli	06/12/2014 0853	06/12/2014 1505	6:12
14060989	Orthophosphate, as P	06/12/2014 0853	06/13/2014 1037	25:44
14060989	Turbidity	06/12/2014 0853	06/13/2014 1643	31:50
14060990	E. Coli	06/12/2014 0833	06/12/2014 1505	6:32
14060990	Orthophosphate, as P	06/12/2014 0833	06/13/2014 1038	26:05
14060990	Turbidity	06/12/2014 0833	06/13/2014 1645	32:12

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14060991	E. Coli	06/12/2014 0738	06/12/2014 1505	7:27
14060991	Orthophosphate, as P	06/12/2014 0738	06/13/2014 1038	27:00
14060991	Turbidity	06/12/2014 0738	06/13/2014 1646	33:08
14060992	E. Coli	06/12/2014 0736	06/12/2014 1505	7:29
14060992	Orthophosphate, as P	06/12/2014 0736	06/13/2014 1039	27:03
14060992	Turbidity	06/12/2014 0736	06/13/2014 1647	33:11
14060993	E. Coli	06/12/2014 0811	06/12/2014 1505	6:54
14060993	Orthophosphate, as P	06/12/2014 0811	06/13/2014 1041	26:30
14060993	Turbidity	06/12/2014 0811	06/13/2014 1648	32:37

J - The concentration or not detected (ND) value is below the Limit of Quantitation (LOQ) and is considered an estimated value.

Accreditation Summary

Client: City of Wichita
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City Hall, 8th Floor
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Continental Order No: 119304

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. Continental is NELAP accredited for each matrix/analyte/method and EPA program cited in this Laboratory Report, except for those listed in the table below and for analyses performed in the field. For most of the analyses listed in the table, NELAP accreditation is not offered under the listed EPA program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA program. Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>CAS NELAP Accredited in Other Reg. Program</u>
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	No

Quality Control Report Batch Summary

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Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL347	E. Coli	140612-2	140612BLK2 06/12/14 1505	N/A	14060982MS 06/12/14 1505
Lab numbers associated with this batch: 14060982 14060983 14060984 14060985 14060986 14060987 14060988 14060989 14060990 14060991 14060992 14060993					
GL595	Kjeldahl Nitrogen, as N (TKN)	140623-2	140623BLK2 06/24/14 1207	140623LCS2 06/24/14 1208	14060899MS 06/24/14 1222
Lab numbers associated with this batch: 14060982					
GL595	Kjeldahl Nitrogen, as N (TKN)	140625-1	140625BLK1 06/27/14 1139	140625LCS1 06/27/14 1140	14060993MS 06/27/14 1229
Lab numbers associated with this batch: 14060983 14060984 14060985 14060986 14060987 14060988 14060989 14060990 14060991 14060992 14060993					
GL192	Nitrate/Nitrite, as N (FIA)	140619-3	140619BLK3 06/19/14 1215	140619LCS3 06/19/14 1216	14060888MS 06/19/14 1221
Lab numbers associated with this batch: 14060982 14060983 14060984 14060985 14060986 14060987 14060988 14060989					
GL192	Nitrate/Nitrite, as N (FIA)	140619-4	140619BLK4 06/19/14 1250	140619LCS4 06/19/14 1252	14061332MS 06/19/14 1308
Lab numbers associated with this batch: 14060990 14060991 14060992 14060993					
GL343	Nitrogen (TKN + NO3/NO2), as N		N/A	N/A	
Lab numbers associated with this batch: 14060982 14060983 14060984 14060985 14060986 14060987 14060988 14060989 14060990 14060991 14060992 14060993					
GL176	Orthophosphate, as P	140613-1	140613BLK1 06/13/14 1030	140613LCS1 06/13/14 1030	14060992MS 06/13/14 1040
Lab numbers associated with this batch: 14060982 14060983 14060984 14060985 14060986 14060987 14060988 14060989 14060990 14060991 14060992 14060993					
GL218	Phosphorus, Total, as P	140626-1	140626BLK1 06/26/14 1403	140626LCS1 06/26/14 1404	14060957MS 06/26/14 1406
Lab numbers associated with this batch: 14060982 14060983 14060984 14060985 14060986 14060987 14060988 14060989 14060990 14060991					
GL218	Phosphorus, Total, as P	140626-2	140626BLK2 06/26/14 1424	140626LCS2 06/26/14 1425	14061462MS 06/26/14 1442
Lab numbers associated with this batch: 14060992 14060993					
GL243	Solids, Total Suspended	140619-1	140619BLK1 06/19/14 1458	N/A	14060982MS 06/19/14 1500
Lab numbers associated with this batch: 14060982 14060983 14060984 14060985 14060986 14060987 14060988 14060989 14060990 14060991 14060992 14060993					

Quality Control Report
Batch Summary

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Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL275	Turbidity	140613-1	140613BLK1 06/13/14 1630	140613LCS1 06/13/14 1630	14060993MS 06/13/14 1649

Lab numbers associated with this batch:

14060982 14060983 14060984 14060985 14060986 14060987 14060988 14060989 14060990 14060991 14060992
14060993

Quality Control Report
Method Blank, LCS, MS/MSD Data

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Analysis	Blank Data	% Rec		Spike Level	Units	Spiked Sample (% Recovery)		Limits	Spike Level	Units	Spiked Sample Precision Data	
		LCS	Limits			MS	MSD				RPD	Limit
QC Batch: 140612-2 E. Coli	For sample analyzed on: 06/12/2014 ND(1)	N/A	#	N/A	MPN/10	Spiked sample: 14060982 579 T 613 T		#	N/A	MPN/10	5.70	127
QC Batch: 140613-1 Orthophosphate, as P	For sample analyzed on: 06/13/2014 ND(0.05)	99.2	90.0-110	0.50	mg/L	Spiked sample: 14060992 96.8 99.4		87.6-109	0.50	mg/L	2.20	5.9
QC Batch: 140613-1 Turbidity	For sample analyzed on: 06/13/2014 ND(0.50)	99.8	90.0-110	48.1	NTU	Spiked sample: 14060993 35.9 T 37.0 T		#	N/A	NTU	3.00	6.0
QC Batch: 140619-1 Solids, Total Suspended	For sample analyzed on: 06/19/2014 ND(5)	N/A	#	N/A	mg/L	Spiked sample: 14060982 280 T 302 T		#	N/A	mg/L	7.40	23.7
QC Batch: 140619-3 Nitrate/Nitrite, as N (FIA)	For sample analyzed on: 06/19/2014 ND(0.10)	99.5	90.0-110	2.0	mg/L	Spiked sample: 14060888 MN MN		88.9-111	40.0	mg/L	**	3.5
QC Batch: 140619-4 Nitrate/Nitrite, as N (FIA)	For sample analyzed on: 06/19/2014 ND(0.10)	102	90.0-110	2.0	mg/L	Spiked sample: 14061332 MN MN		88.9-111	100	mg/L	**	3.5
QC Batch: 140623-2 Kjeldahl Nitrogen, as N (TKN)	For samples prepared on: 06/23/2014 1100 ND(0.50)	99.8	90.0-110	4.0	mg/L	Spiked sample: 14060899 MN MN		52.9-133	4.0	mg/L	**	17.2
QC Batch: 140625-1 Kjeldahl Nitrogen, as N (TKN)	For samples prepared on: 06/25/2014 1200 ND(0.50)	96.3	90.0-110	4.0	mg/L	Spiked sample: 14060993 93.8 91.0		52.9-133	4.0	mg/L	2.60	17.2
QC Batch: 140626-1 Phosphorus, Total, as P	For sample analyzed on: 06/26/2014 ND(0.20)	101	90.0-110	2.0	mg/L	Spiked sample: 14060957 MN MN		66.4-125	2.0	mg/L	**	14.1
QC Batch: 140626-2 Phosphorus, Total, as P	For sample analyzed on: 06/26/2014 ND(0.20)	102	90.0-110	2.0	mg/L	Spiked sample: 14061462 MN MN		66.4-125	2.0	mg/L	**	14.1

Data Qualifiers:

T - A MS/MSD cannot be performed for this analysis and a duplicate analysis is performed. The MS and MSD results are from two separate analyses.

MN - The MS/MSD sample analyses were not performed on a sample from this Continental order number.

- Limits not applicable/not available for this analysis.

** - RPD calculation not applicable/not available for this analysis.

Quality Control Report Continuing Calibration Report

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<u>Analysis</u>	<u>Date of Analysis</u>	<u>Instrument Batch ID</u>	<u>Amount in Standard</u>	<u>Amount Detected</u>	<u>Units</u>	<u>Percent Recovery</u>
Orthophosphate, as P	06/13/2014	140613-1	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P	06/13/2014	140613-2	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P	06/13/2014	140613-3	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-7	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-8	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	06/19/2014	140619-9	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/26/2014	140626-2	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/26/2014	140626-3	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	06/26/2014	140626-4	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/13/2014	140613-1	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/13/2014	140613-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	06/13/2014	140613-3	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/24/2014	140624-5	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/24/2014	140624-6	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/27/2014	140627-1	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/27/2014	140627-2	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	06/27/2014	140627-3	CCV recovery acceptable for this			Instrument Batch.

- Laboratory Report Conclusion -



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 www.cas-lab.com

CHAIN OF CUSTODY RECORD

Continental Order Number:

119384

Client/Reporting Information				Invoice Information				PARAMETERS/CONTAINER TYPE										COMMENTS							
Company Name: City of Wichita Stormwater Management				Company Name: Same																					
Address: 455 N. Main 8th Floor																									
City: Wichita		State: KS		Zip: 67202																					
Contact: Jim Hardesty		E-mail: JHardesty@wichita.gov																							
Phone Number: (316)268-8317		Fax Number:																							
Sampler's Name (Printed): David Onnelas		Sampler's Name (Signature): <i>David Onnelas</i>		Purchase Order Number:																					
File Number: 8339		Project Name: Stormwater																							
SAMPLE IDENTIFICATION (30 Characters or less)				Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite C-Grab	Total Containers	HCL	NaOH	HNO3	H2SO4	NONE	OTHER: Na2S2O3	PARAMETERS/CONTAINER TYPE					COMMENTS				
E. Chisholm@N. Hillside				WW	N	6-12	8:17	G	3				1	1	1	E. coli 250 ml, Sterile Na2S2O3 TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4 TSS Turbidity, Otho-P 1000ml Plastic - None									
Regulatory Program: N=NPDES, R=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL = Oil/Organic Liquid, Q=Other																(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)									
RELINQUISHED BY: <i>David Onnelas</i>				DATE: 6-12-14	TIME: 9:27	RECEIVED BY:				DATE:	TIME:														
RELINQUISHED BY:				DATE:	TIME:	RECEIVED BY:				DATE:	TIME:														
RECEIVED AT LAB BY: <i>msw/ls</i>				DATE: 6-12-14	TIME: 1430	SHIPPED VIA:				SEAL #:															
						AIRBILL:				SEAL DATE:															



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CHAIN OF CUSTODY RECORD

Continental Order Number: 119301

Client/Reporting Information				Invoice Information				PARAMETERS/CONTAINER TYPE										COMMENTS						
Company Name: City of Wichita Stormwater Management				Company Name: Same				E. coli 250 mL Sterile Na2S2O3 TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4 TSS Turbidity, Other-P 1000ml Plastic - None																
Address: 455 N. Main 8th Floor																								
City: Wichita		State: KS		Zip: 67202																				
Contact: Jim Hardesty				E-mail: JHardesty@wichita.gov																				
Phone Number: (316)268-8317				Fax Number:																				
Sampler's Name (Printed): <i>David Ornelas</i>			Sampler's Name (Signature): <i>[Signature]</i>			Purchase Order Number:																		
File Number: 8339		Project Name: Stormwater																						
SAMPLE IDENTIFICATION (30 Characters or less)		Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite G-Grab	Total Containers	HCL	NaOH	HNO3	H2SO4	NONE	OTHER: Na2S2O3											
Gypsum@Eastern		WW	N	6-12	7:57 AM		3				1	1	1	X	X	X								
Regulatory Program: N=NPDES, B=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other														(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)										
Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL = Oil/Organic Liquid, Q=Other																								
RELINQUISHED BY: <i>[Signature]</i>				DATE: 6-12-14		TIME: 9:24		RECEIVED BY:				DATE:		TIME:										
RELINQUISHED BY:				DATE:		TIME:		RECEIVED BY:				DATE:		TIME:										
RECEIVED AT LAB BY: <i>[Signature]</i>				DATE: 6-12-14		TIME: 14:25		SHIPPED VIA:				SEAL #:		SEAL DATE:										
								AIRBILL:																

Client/Reporting Information					Invoice Information					PARAMETERS/CONTAINER TYPE							COMMENTS						
Company Name: City of Wichita Stormwater Management					Company Name: Same					E. coli 250 mL Sterile Na2S2O3	TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4	TSS Turbidity, Ortho-P 1000ml Plastic - None											
Address: 455 N. Main 8th Floor																							
City: Wichita		State: KS		Zip: 67202																			
Contact: Jim Hardesty			E-mail: JHardesty@wichita.gov																				
Phone Number: (316)268-8317			Fax Number:																				
Sampler's Name (Printed): TODD MITCHELL			Sampler's Name (Signature): <i>[Signature]</i>		Purchase Order Number:																		
File Number: 8339		Project Name: Stormwater																					
SAMPLE IDENTIFICATION (30 Characters or less)					Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite C-Crab	Total Containers	HCL	NaOH	HNO3	H2SO4	NONE	OTHER: Na2S2O3							
Gypsum@Hillside					WW	N	6/12/14	8:53	G	3				1	1	1	X	X	X				
Regulatory Program: N =NPDES, R =RCRA, D =Drinking Water, SL =503 Sludge, O =Other Matrix (Sample Type): DW =Drinking Water, GW =Ground Water, WW =Waste Water, W =Wipe, S =Solid/Soil, SL =Sludge, A =Air, OL =Oil/Organic Liquid, O =Other																							
RELINQUISHED BY: <i>[Signature]</i>					DATE: 6/12/14	TIME: 9:13	RECEIVED BY:					DATE:	TIME:										
RELINQUISHED BY:					DATE:	TIME:	RECEIVED BY:					DATE:	TIME:										
RECEIVED AT LAB BY: <i>[Signature]</i>					DATE: 6-12-14	TIME: 14:20	SHIPPED VIA:					SEAL #:	SEAL DATE:										



525 N. 8th Street, Salina, KS 67401
 (785)827-1273 (800)535-3076 Fax (785)823-7830
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CHAIN OF CUSTODY RECORD

Continental Order Number: 11934

Client/Reporting Information				Invoice Information				PARAMETERS/CONTAINER TYPE										COMMENTS										
Company Name: City of Wichita Stormwater Management				Company Name: Same				E. coli 250 mL Sterile Na2S2O3 TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4 TSS Turbidity, Ortho-P 1000ml Plastic - None																				
Address: 455 N. Main 8th Floor																												
City: Wichita		State: KS		Zip: 67202																								
Contact: Jim Hardesty		E-mail: JHardesty@wichita.gov																										
Phone Number: (316)268-6317				Fax Number:																								
Sampler's Name (Printed) <i>David Ornelas</i>			Sampler's Name (Signature) <i>David Ornelas</i>			Purchase Order Number:																						
File Number: 8339		Project Name: Stormwater																										
SAMPLE IDENTIFICATION (30 Characters or less)				Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite C-Grab	Total Containers	HCL	NaOH	HNO3	H2SO4	NONE	OTHER: Na2S2O3													
<i>LA@N.Meridian</i>				<i>WW</i>	<i>N</i>	<i>6-12</i>	<i>833</i>	<i>MA G</i>	<i>3</i>				<i>1</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>										
Regulatory Program: N =NPDES, R =RCRA, D =Drinking Water, SL =503 Sludge, Q =Other Matrix (Sample Type): DW =Drinking Water, GW =Ground Water, WW =Waste Water, W =Wipe, S =Solid/Soil, SL =Sludge, A =Air, OL = Oil/Organic Liquid, Q =Other															(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)													
RELINQUISHED BY: <i>David Ornelas</i>				DATE: <i>6-12-14</i>		TIME: <i>9:27</i>		RECEIVED BY:				DATE:		TIME:														
RELINQUISHED BY:				DATE:		TIME:		RECEIVED BY:				DATE:		TIME:														
RECEIVED AT LAB BY: <i>Melissa</i>				DATE: <i>6-12-14</i>		TIME: <i>14:20</i>		SHIPPED VIA:				SEAL #:																
								AIRBILL:				SEAL DATE:																



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CHAIN OF CUSTODY RECORD

Continental Order Number:

119304
 11/20/14
 6-2-14

Client/Reporting Information					Invoice Information					PARAMETERS/CONTAINER TYPE					COMMENTS											
Company Name: City of Wichita Stormwater Management					Company Name: Same					E. coli 250 mL Sterile Na2S2O3 TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4 TSS Turbidity, Other-P 1000ml Plastic - None																
Address: 455 N. Main 8th Floor																										
City: Wichita		State: KS		Zip: 67202																						
Contact: Jim Hardesty			E-mail: JHardesty@wichita.gov																							
Phone Number: (316)268-8317			Fax Number:																							
Sampler's Name:(Printed) David Ornelas			Sampler's Name:(Signature) <i>[Signature]</i>			Purchase Order Number:																				
File Number: 8339		Project Name: Stormwater																								
SAMPLE IDENTIFICATION (30 Characters or less)					Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite C-Grab G	Total Containers	Number of Preserved Bottles					OTHER: Na2S2O3										
LA@Central					WW	N	6-12-14	7:38 AM	G	3	HCL	NaOH	HNO3	H2SO4	NONE	1	1	1	X	X	X					
Regulatory Program: N=NPDES, R=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other					(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)																					
Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL = Oil/Organic Liquid, Q=Other																										
RELINQUISHED BY: <i>[Signature]</i>					DATE: 6-12-14		TIME: 9:27		RECEIVED BY:					DATE:		TIME:										
RELINQUISHED BY:					DATE:		TIME:		RECEIVED BY:					DATE:		TIME:										
RECEIVED AT LAB BY: <i>[Signature]</i>					DATE: 6-12-14		TIME: 14:25		SHIPPED VIA:					SEAL #:		SEAL DATE:										
									AIRBILL:																	



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CHAIN OF CUSTODY RECORD

Continental Order Number:

119304

Client/Reporting Information			Invoice Information							PARAMETERS/CONTAINER TYPE							COMMENTS		
Company Name: City of Wichita Stormwater Management			Company Name: Same							E. coli 250 mL Sterile Na2S2O3	TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4	TSS Turbidity, Ortho-P 1000ml Plastic - None							
Address: 455 N. Main 8th Floor																			
City: Wichita		State: KS	Zip: 67202																
Contact: Jim Hardesty		E-mail: JHardesty@wichita.gov																	
Phone Number: (316)268-8317		Fax Number:																	
Sampler's Name:(Printed) TODD MITCHELL			Sampler's Name:(Signature) <i>T. Mitchell</i>				Purchase Order Number:												
File Number: 8339		Project Name: Stormwater					C-Composite G-Grab	Total Containers	Number of Preserved Bottles						OTHER: Na2S2O3				
SAMPLE IDENTIFICATION (30 Characters or less)		Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	HCL	NaOH	HNO3	H2SO4	NONE									
S. Slough@Hydraulic		WW	N	6/12/14	8:11				1	1	1	X	X	X					
Regulatory Program: N=NPDES, B=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other											(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)								
Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL = Oil/Organic Liquid, Q=Other																			
RELINQUISHED BY: TODD MITCHELL					DATE: 6/12/14	TIME: 9:13	RECEIVED BY:					DATE:	TIME:						
RELINQUISHED BY:					DATE:	TIME:	RECEIVED BY:					DATE:	TIME:						
RECEIVED AT LAB BY: <i>M. Wilson</i>					DATE: 6-12-14	TIME: 14:25	SHIPPED VIA:					SEAL #:							
							AIRBILL:					SEAL DATE:							

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119384

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler: J-206

Cooler 1 of 2 for this CAS Order No.

Cooler Identification: CAS Cooler #: _____ Client's Cooler / Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6 / 12 / 14 14 : 35

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: _____

Custody Seal: Present: Intact / Broken Absent: _____ Seal No: 2

Seal Name: N/A Seal Date: 6-12-14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.2 Corrected Reading (°C) 1.8

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: 585 Thermo. Correction Factor (°C): 0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input type="checkbox"/> Missing relinquished information: signature date time | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments:

Completed by: rmw Date Completed: 6-12-14

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119304

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler: 51202

Cooler 2 of 2 for this CAS Order No.

Cooler Identification: CAS Cooler #: _____ / Client's Cooler / Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6 / 12 / 17 14 : 25

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: _____

Custody Seal: Present: Intact / Broken Absent: _____ Seal No: 1

Seal Name: NA Seal Date: 6-12-17

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 0.4 Corrected Reading (°C) 0

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: 535 Thermo. Correction Factor (°C): 0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input type="checkbox"/> Missing relinquished information: signature date time | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments:

Completed by: mm Date Completed: 6-12-17

Client: City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: 6/27/2014 Date Sample(s) Recd: 6/12/2014 CAS File No: 8339 CAS Order No: 119304 PO/Proj. No: Purchase Auth.: BP240122
---	---

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Total
Orthophosphate, as P	12	15.00	180.00
Nitrate/Nitrite, as N (FIA)	12	11.25	135.00
Phosphorus, Total, as P	12	24.00	288.00
Solids, Total Suspended	12	11.25	135.00
Turbidity	12	15.00	180.00
E. Coli	12	30.00	360.00
Kjeldahl Nitrogen, as N (TKN)	12	26.25	315.00

Amount Due: 1593.00

TERMS: Net 30 days from the date of invoice. Interest will be charged on past due accounts at the rate of 1.5% per month on unpaid account balance (annual percentage rate of 18%).

VISA, MasterCard and American Express Accepted. For your protection, our company does not accept credit card numbers via email.



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CHAIN OF CUSTODY RECORD

Continental Order Number:

119304

Client/Reporting Information				Invoice Information				PARAMETERS/CONTAINER TYPE										COMMENTS					
Company Name: City of Wichita Stormwater Management				Company Name: Same				E. coli 250 mL Sterile Na2S2O3 TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4 TSS Turbidity, Otho-P 1000ml Plastic - None															
Address: 455 N. Main 8th Floor																							
City: Wichita		State: KS		Zip: 67202																			
Contact: Jim Hardesty		E-mail: JHardesty@wichita.gov																					
Phone Number: (316)268-8317		Fax Number:																					
Sampler's Name (Printed): TODD MITCHELL		Sampler's Name (Signature): <i>[Signature]</i>		Purchase Order Number:																			
File Number: 8339		Project Name: Stormwater																					
SAMPLE IDENTIFICATION (30 Characters or less)				Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite G-Grab	Total Containers	HCL	NaOH	HNO3	H2SO4	NONE	OTHER: Na2S2O3								
Ark@83rd St S.				WW	N	6/12/14	8:27	G	3				1	1	1	X	X	X					
Regulatory Program: N=NPDES, R=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, QL=Oil/Organic Liquid, Q=Other																							
RELINQUISHED BY: TODD MITCHELL				DATE: 6/12/14		TIME: 9:13		RECEIVED BY:				DATE:		TIME:									
RELINQUISHED BY:				DATE:		TIME:		RECEIVED BY:				DATE:		TIME:									
RECEIVED AT LAB BY: <i>[Signature]</i>				DATE: 6-12-14		TIME: 14:25		SHIPPED VIA:				SEAL #:		SEAL DATE:									
								AIRBILL:															



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CHAIN OF CUSTODY RECORD

Continental Order Number:

119304

Client/Reporting Information				Invoice Information				PARAMETERS/CONTAINER TYPE										COMMENTS																			
Company Name: City of Wichita Stormwater Management				Company Name: Same																																	
Address: 455 N. Main 8th Floor																																					
City: Wichita		State: KS		Zip: 67202																																	
Contact: Jim Hardesty		E-mail: JHardesty@wichita.gov																																			
Phone Number: (316)268-8317		Fax Number:																																			
Sampler's Name:(Printed) Todd Mitchell		Sampler's Name:(Signature) <i>T. Mitchell</i>		Purchase Order Number:																																	
File Number: 8339		Project Name: Stormwater																																			
SAMPLE IDENTIFICATION (30 Characters or less)				Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite C-Grab	Total Containers	HCL	NaOH	HNO3	H2SO4	NONE	OTHER: Na2S2O3	E. coli 250 mL Sterile Na2S2O3	TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4	TSS Turbidity, Otho-P 1000ml Plastic - None																			
Cowskin@MacArthur				WW	N	6/12/14	7:50	G	3					1	1	1	X	X	X																		
Regulatory Program: N=NPDES, R=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other																(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)																					
Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL = Oil/Organic Liquid, Q=Other																																					
RELINQUISHED BY: Todd Mitchell				DATE: 6/12/14		TIME: 9:13		RECEIVED BY:				DATE:		TIME:																							
RELINQUISHED BY:				DATE:		TIME:		RECEIVED BY:				DATE:		TIME:																							
RECEIVED AT LAB BY: <i>muller</i>				DATE: 6-12-14		TIME: 14:25		SHIPPED VIA:				SEAL #:																									
								AIRBILL:				SEAL DATE:																									



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CHAIN OF CUSTODY RECORD

Continental Order Number: 119301

Client/Reporting Information				Invoice Information				PARAMETERS/CONTAINER TYPE										COMMENTS				
Company Name: City of Wichita Stormwater Management				Company Name: Same				E. coli 250 mL Sterile Na2S2O3 TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4 TSS Turbidity, Other-P 1000ml Plastic - None														
Address: 455 N. Main 8th Floor																						
City: Wichita		State: KS		Zip: 67202																		
Contact: Jim Hardesty				E-mail: JHardesty@wichita.gov																		
Phone Number: (316)268-8317				Fax Number:																		
Sampler's Name:(Printed) <i>David Ornelas</i>			Sampler's Name:(Signature) <i>[Signature]</i>			Purchase Order Number:																
File Number: 8339		Project Name: Stormwater																				
SAMPLE IDENTIFICATION (30 Characters or less)		Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite G-Grab	Total Containers	HCL	NaOH	HNO3	H2SO4	NONE	OTHER: Na2S2O3									
Gypsum@Eastern		WW	N	6-12	7:57 AM		3				1	1	1	X	X	X						
Regulatory Program: N=NPDES, B=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL = Oil/Organic Liquid, Q=Other														(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)								
RELINQUISHED BY: <i>[Signature]</i>				DATE: 6-12-14		TIME: 9:24		RECEIVED BY:				DATE:		TIME:								
RELINQUISHED BY:				DATE:		TIME:		RECEIVED BY:				DATE:		TIME:								
RECEIVED AT LAB BY: <i>[Signature]</i>				DATE: 6-12-14		TIME: 14:25		SHIPPED VIA:				SEAL #:										
								AIRBILL:				SEAL DATE:										



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CHAIN OF CUSTODY RECORD

Continental Order Number:

119304
 11/20/14
 6-2-14

Client/Reporting Information				Invoice Information				PARAMETERS/CONTAINER TYPE						COMMENTS											
Company Name: City of Wichita Stormwater Management				Company Name: Same				E. coli 250 mL Sterile Na2S2O3 TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4 TSS Turbidity, Other-P 1000ml Plastic - None																	
Address: 455 N. Main 8th Floor																									
City: Wichita		State: KS		Zip: 67202																					
Contact: Jim Hardesty		E-mail: JHardesty@wichita.gov																							
Phone Number: (316)268-8317		Fax Number:																							
Sampler's Name:(Printed) David Ornelas		Sampler's Name:(Signature) <i>[Signature]</i>		Purchase Order Number:																					
File Number: 8339		Project Name: Stormwater																							
SAMPLE IDENTIFICATION (30 Characters or less)				Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled	C-Composite C-Grab G	Total Containers	Number of Preserved Bottles					OTHER: Na2S2O3										
LA@Central				WW	N	6-12-14	7:38 AM	G	3	HCL	NaOH	HNO3	H2SO4	NONE	1	1	1	X	X	X					
Regulatory Program: N=NPDES, R=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other				(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)																					
Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL = Oil/Organic Liquid, Q=Other																									
RELINQUISHED BY: <i>[Signature]</i>				DATE: 6-12-14		TIME: 9:27		RECEIVED BY:				DATE:		TIME:											
RELINQUISHED BY:				DATE:		TIME:		RECEIVED BY:				DATE:		TIME:											
RECEIVED AT LAB BY: <i>[Signature]</i>				DATE: 6-12-14		TIME: 14:25		SHIPPED VIA:				SEAL #:		SEAL DATE:											
								AIRBILL:																	

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119384

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler: J-206

Cooler 1 of 2 for this CAS Order No.

Cooler Identification: CAS Cooler #: _____ Client's Cooler / Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6 / 12 / 14 14 : 25

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: _____

Custody Seal: Present: Intact / Broken Absent: _____ Seal No: 2

Seal Name: N/A Seal Date: 6-12-14

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice ICs / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 1.2 Corrected Reading (°C) 1.8

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: 585 Thermo. Correction Factor (°C): 0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input type="checkbox"/> Missing relinquished information: signature date time | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments:

Completed by: rmw Date Completed: 6-12-14

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 119304

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler: Sealer

Cooler 2 of 2 for this CAS Order No.

Cooler Identification: CAS Cooler #: _____ / Client's Cooler / Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 6 / 12 / 17 14 : 25

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: _____

Custody Seal: Present: Intact / Broken Absent: _____ Seal No: 1

Seal Name: NA Seal Date: 6-12-17

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 0.4 Corrected Reading (°C) 0

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: 535 Thermo. Correction Factor (°C): 0.6

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input type="checkbox"/> Missing relinquished information: signature date time | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments:

Completed by: mm Date Completed: 6-12-17

APPENDIX A

WATER MONITORING RESULTS

Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

Footnotes and comments

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This form, Water Quality Results for Additional Sites Monitored, is intended for use by both Phase I and Phase II MS4s.

NPDES permitted Phase I MS4s included Topeka: Unified Government of Wyandotte County and Kansas City, Kansas; and Wichita. All other NPDES permitted MS4s in Kansas are Phase II MS4s

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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WATER MONITORING RESULTS

Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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WATER MONITORING RESULTS

Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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APPENDIX A

WATER MONITORING RESULTS

Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

Footnotes and comments

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WATER MONITORING RESULTS

Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

Footnotes and comments

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

Footnotes and comments

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Trubidity(NTU)		<input type="checkbox"/>	<input type="checkbox"/>
Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

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APPENDIX A

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Additional Sites Monitored (Either surface waters, ground waters or flow within MS4)

Site Name: _____

Site Number: _____

Event Rainfall Total: _____ Inches

Lake:

Stream:

Estimated Stream Flow: _____ CFS

Stream Level Conditions: _____
(Rising, Falling, Steady)

Stream Velocity Conditions: _____
(Rapid/Normal, Still (backwater))

Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
Nitrate + Nitrite (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl Nitrogen (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Total Suspended Solids (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
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Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
E. coli (col/100ml)		<input type="checkbox"/>	<input type="checkbox"/>
Other		<input type="checkbox"/>	<input type="checkbox"/>
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Sample Date: _____

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Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
Ortho-Phosphate		<input type="checkbox"/>	<input type="checkbox"/>
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Site Name: _____

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Stream Level Conditions: _____
(Rising, Falling, Steady)

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Sample Date: _____

Parameters & Units Required	Results*	Sample Type	
		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
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Secchi Disk (feet)		<input type="checkbox"/>	<input type="checkbox"/>
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		Grab	Composite
Total Phosphorus (mg/l)		<input type="checkbox"/>	<input type="checkbox"/>
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10/10/2014

City of Wichita
Attn: Jim Hardesty
City Hall, 8th Floor
455 N. Main
Wichita, KS 67202

Date Received: 10/10/2014
CAS File No.: 8339
CAS Order No.: 121977
Your P.O./Project No.:

Purchase Auth: BP240122

Re: Laboratory Receipt of Samples

Dear Mr. Hardesty:

Continental Analytical Services, Inc., received your sample(s) on the date referenced above. The enclosed Test Assignment Review Sheet(s) detail the test(s) and regulatory program that have been assigned to each sample. Also enclosed is the Billing Review Sheet itemizing the anticipated charges for the samples under this order. Please contact me directly at (800)535-3076 if corrections are necessary or fax (785)823-7830/email this letter to deny authorization to proceed with analysis. All samples on the order have been scheduled for Standard Turnaround.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

Please review the Test Assignment Review Sheet(s) and the Cooler/Sample Receipt Form(s), if enclosed, for discrepancies. Continental will proceed with analysis unless you inform us otherwise. If you DO NOT want the analysis performed please sign, date and return this form to Continental.

Name _____ Date _____

Our Terms and Conditions of Sale are located on our website: www.cas-lab.com. These Terms and Conditions will be in effect unless a separate contractual agreement has been made. Samples will be retained by the laboratory for 30 days following issuance of the final report unless an alternate arrangement is agreed to in writing.

Thank you for choosing Continental Analytical Services, Inc. If you have any questions, or require assistance, please contact me directly at (800)535-3076.

CONTINENTAL ANALYTICAL SERVICES, INC.

Gregory J. Groene
Project Manager
Email: gjgroene@cas-lab.com



CONTINENTAL ANALYTICAL SERVICES, INC.
 525 N. Eighth St. - SALINA, KANSAS 67401
 (800)535-3076 - (785)827-1273
 FED ID #48-1062249

BILLING REVIEW SHEET

This is not an invoice.

The invoice will be issued following the final laboratory report.

Page: 1

Client: City of Wichita Attn: Jim Hardesty City Hall, 8th Floor 455 N. Main Wichita, KS 67202	Report Date: Date Sample(s) Recd: 10/10/2014 CAS File No: 8339 CAS Order No: 121977 PO/Proj. No: Stormwater Purchase Auth.: BP240122
---	---

Analyses and Preparation Performed	No. of Samples	Cost Per Sample	Discounted Price Per Sample	Total
Orthophosphate, as P, D-React.	12	18.00	15.00	180.00
Nitrate/Nitrite, as N (FIA)	12	18.00	11.25	135.00
Phosphorus, Total, as P	12	32.00	24.00	288.00
Solids, Total Suspended	12	15.00	11.25	135.00
Turbidity	12	15.00	15.00	180.00
Nitrogen (TKN + NO3/NO2), as N	12	0.00	0.00	0.00
E. Coli	12	40.00	30.00	360.00
Kjeldahl Nitrogen, as N (TKN)	12	35.00	26.25	315.00

Amount Due: 1593.00



525 N. Eighth St. - Salina, KS 67401
 785-827-1273 800-535-3076 Fax 785-823-7830



Continental Analytical Services, Inc.
Accreditation Summary Report

Client: City of Wichita
CAS Order Number: 121977

NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. The table below summarizes Continental's NELAP accreditation status for each requested test for the matrix and regulatory program indicated. If an analyte is listed as Other Reg. Program, NELAP accreditation is not offered under the listed EPA regulatory program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA regulatory program. If an analyte is listed as None then Continental is not accredited for that analyte (normally NELAC accreditation is not available). Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>Certification</u>
GL176	Orthophosphate, as P, D-React.	L-NPDES	4500-P(E)-1999	KS
GL192	Nitrate/Nitrite, as N (FIA)	L-NPDES	4500-NO3(F)-2000	KS
GL218	Phosphorus, Total, as P	L-NPDES	4500-P(B&G)-1999	KS
GL243	Solids, Total Suspended	L-NPDES	SM 2540 (D)-1997	KS
GL275	Turbidity	L-NPDES	SM 2130 (B)-2001	KS
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	None
GL347	E. Coli	L-NPDES	SM 9223B Colilert	KS
GL595	Kjeldahl Nitrogen, as N (TKN)	L-NPDES	EPA 351.2	KS



525 N. 8th Street, Salina, KS 67401
 (785)827-1273 (800)535-3076 Fax (785)823-7830
 www.cas-lab.com

CHAIN OF CUSTODY RECORD

Continental Order Number: 1277

Client/Reporting Information					Invoice Information							PARAMETERS/CONTAINER TYPE							COMMENTS								
Company Name: City of Wichita Stormwater Management					Company Name: Same							E. coli 250 mL Sterile Na2S2O3	TKN, NO3/NO2, Total N, Total P 250ml Plastic - H2SO4	TSS Turbidity, Ortho-P 1000ml Plastic - None													
Address: 455 N. Main 8th Floor																											
City: Wichita		State: KS		Zip: 67202																							
Contact: Jim Hardesty				E-mail: JHardesty@wichita.gov																							
Phone Number: (316)268-8317				Fax Number:																							
Sampler's Name (Printed): <u>Willie Williams</u>			Sampler's Name (Signature): <u>Willie Williams</u>			Purchase Order Number:				OTHER: Na2S2O3	X	X	X														
File Number: 8339		Project Name: Stormwater				C-Composite G-Grab	Total Containers	Number of Preserved Bottles																			
SAMPLE IDENTIFICATION (30 Characters or less)		Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled			HCL	NaOH	HNO3									H2SO4	NONE							
<u>Gypsum@Eastern</u>		<u>WW</u>	<u>N</u>	<u>10-10-14</u>	<u>1:22pm</u>	<u>G</u>	<u>3</u>																				

Regulatory Program: N=NPDES, R=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other
 (Please note if non-standard turnaround. Rush & Emergency subject to additional charge)
 Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)

Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL= Oil/Organic Liquid, Q=Other

RELINQUISHED BY: <u>Willie Williams</u>	DATE: <u>10-10-14</u>	TIME: <u>2:50pm</u>	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RECEIVED AT LAB BY: <u>Robert Dizon</u>	DATE: <u>10/10/14</u>	TIME: <u>1620</u>	SHIPPED VIA: AIRBILL:	SEAL #:	SEAL DATE:

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 121977

Client Name: Wichita

CAS File No.: 8239

Sample ID's in cooler: 135th Central 53rd Meridian Northside
Eastern

Cooler 1 of 2 for this CAS Order No.

Cooler Identification: CAS Cooler #: Client's Cooler / Box / Letter / Hand-delivered
Other:

Date/Time Cooler Received: 10/10/14 16:20

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other:

Custody Seal: Present: Intact / Broken Absent Seal No:
Seal Name: Seal Date:

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other:

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.7

Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: 585 Thermo. Correction Factor (°C): 0.4

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies:

Detail to discrepancies/comments: LA @ N. Meridian just labeled CA @ Meridian

Completed by: [Signature] Date Completed: 10-10-14

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 21977

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler: Gyp^o Hillside, MacArthur 83rd S
S. Slaughter Pumper Hydraulic

Cooler 2 of 2 for this CAS Order No.

Cooler Identification: CAS Cooler #: Client's Cooler / Box / Letter / Hand-delivered
Other: _____

Date/Time Cooler Received: 10, 10, 14 10:20

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other: _____

Custody Seal: Present: Intact / Broken Absent: Seal No: _____

Seal Name: _____ Seal Date: _____

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other: _____

Cooler Temperature (°C): Original Reading (°C) 3.3 Corrected Reading (°C) 3.7

Temperature. By: Temperature Blank Surface Temperature

Thermo. ID No.: SP Thermo. Correction Factor (°C): 0.4

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- | | |
|--|---|
| <input type="checkbox"/> Chain of Custody not present - information taken from:
Cover Letter <input type="checkbox"/> Container <input type="checkbox"/>
PO <input type="checkbox"/> CAS Proj. Mgr. <input type="checkbox"/> | <input type="checkbox"/> Sample excluded from Chain of Custody |
| <input type="checkbox"/> Container label absent | <input type="checkbox"/> Sample listed on Chain of Custody, not received |
| <input type="checkbox"/> Chain of Custody incomplete [see detail below] | <input type="checkbox"/> Sample identification on container and Chain of Custody do not agree |
| <input type="checkbox"/> Chain of Custody missing date/time sampled (excl. TB or Dup.) | <input type="checkbox"/> Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm] |
| <input type="checkbox"/> Date or Time sampled obtained from container label | <input type="checkbox"/> Cooler temperature exceeded 0.1 - 6.0 °C requirement
[Do not mark if samples do not require cooling to 0.1 - 6.0 °C.] |
| <input type="checkbox"/> Chain of Custody missing sampler's name | <input type="checkbox"/> Broken or leaking containers (detail actions below) |
| <input type="checkbox"/> Chain of Custody missing matrix (sample type) | <input type="checkbox"/> Sample container type or labeled chemical preservation inappropriate |
| <input type="checkbox"/> Missing relinquished information: signature date time | <input type="checkbox"/> Other discrepancies: _____ |

Detail to discrepancies/comments:

Completed by: AB

Date Completed: 10-10-14

City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date and Time Received: 10/10/2014 1620
 Continental File No.: 8339
 Continental Order No.: 121977
 Project ID: Stormwater
 Purchase Auth: BP240122

Dear Mr. Hardesty:

This laboratory report, containing the samples indicated below, includes 16 pages for the analytical report, 12 page(s) for the chain of custody and/or analysis request, and 2 page(s) for the sample receipt form.

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>SAMPLE TYPE</u>	<u>DATE SAMPLED</u>
14100973	Cowskin@135th St W.	Liquid	10/10/2014
14100974	LA@Central	Liquid	10/10/2014
14100975	Gypsum@Eastern	Liquid	10/10/2014
14100976	E. Chisholm@N. Hillside	Liquid	10/10/2014
14100977	LA@N. Meridian	Liquid	10/10/2014
14100978	Ark@53rd St N.	Liquid	10/10/2014
14100979	Chisholm@Pawnee	Liquid	10/10/2014
14100980	Gypsum@Hillside	Liquid	10/10/2014
14100981	S. Slough@Hydraulic	Liquid	10/10/2014
14100982	Ark@83rd St S.	Liquid	10/10/2014
14100983	Cowskin@MacArthur	Liquid	10/10/2014
14100984	S. Slough@Meridian	Liquid	10/10/2014

The Appendix and Quality Control sections are integral parts of this laboratory report and may contain important data qualifiers.

All results are reported on a wet weight basis unless otherwise stated.

Samples will be retained for thirty days unless Continental is otherwise notified.

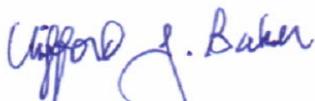
Continental is accredited by the State of Kansas through the National Environmental Laboratory Accreditation Program (NELAP). The results contained in this report were obtained using Continental's Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standards published by NELAP unless otherwise noted in the Appendix and Quality Control sections of this report.

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Thank you for choosing Continental for this project.



CONTINENTAL ANALYTICAL SERVICES, INC.



Clifford J. Baker
Technical Manager



Gregory J. Groene
Project Manager



525 N. Eighth St. - Salina, KS 67401
785-827-1273 800-535-3076 Fax 785-823-7830
KDHE Environmental Laboratory Accreditation No. E-10146



Sample Results

Page: 3

Client: City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 10/29/2014
 Date Received: 10/10/2014
 Continental File No: 8339
 Continental Order No: 121977

Lab Number: 14100973
 Sample Description: Cowskin@135th St W.

Date Sampled: 10/10/2014
 Time Sampled: 1427

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	1730	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	5.53 QC	mg/L	7321/643
Nitrate/Nitrite, as N (FIA)	0.33	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	5.86	mg/L	9996/662
Orthophosphate, as P, D-React.	0.294 DM	mg/L	7182/342
Phosphorus, Total, as P	ND(0.05)	mg/L	7321/651
Solids, Total Suspended	129	mg/L	7438/200
Turbidity	125	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1310	141020-1	141021-6	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1403	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-React	N/A	10/10/14 1751	141010-2	141010-3	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1513	141028-1	141028-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1553	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1700	141010-1	141010-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100973

Lab Number: 14100974
 Sample Description: LA@Central

Date Sampled: 10/10/2014
 Time Sampled: 1300

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	365	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	ND(0.50)	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	ND(0.10)	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	ND(0.50)	mg/L	9996/662
Orthophosphate, as P, D-React.	0.223 DM	mg/L	7182/342
Phosphorus, Total, as P	0.32	mg/L	7321/651
Solids, Total Suspended	59	mg/L	7438/200
Turbidity	45.9	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert

-Continued-

Sample Results

Page: 4

Client: City of Wichita
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 455 N. Main
 Wichita, KS 67202

Date Reported: 10/29/2014
 Date Received: 10/10/2014
 Continental File No: 8339
 Continental Order No: 121977

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1355	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1404	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1752	141010-2	141010-3	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1514	141028-1	141028-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1553	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1702	141010-1	141010-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100974

Lab Number: 14100975
 Sample Description: Gypsum@Eastern

Date Sampled: 10/10/2014
 Time Sampled: 1322

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	2.39	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	0.24	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	2.63	mg/L	9996/662
Orthophosphate, as P, D-React.	0.075 DM	mg/L	7182/342
Phosphorus, Total, as P	0.34	mg/L	7321/651
Solids, Total Suspended	24	mg/L	7438/200
Turbidity	18.7	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1356	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1405	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1752	141010-2	141010-3	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1515	141028-1	141028-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1553	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1703	141010-1	141010-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100975

Sample Results

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Client: City of Wichita
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Date Reported: 10/29/2014
 Date Received: 10/10/2014
 Continental File No: 8339
 Continental Order No: 121977

Lab Number: 14100976
 Sample Description: E. Chisholm@N. Hillside

Date Sampled: 10/10/2014
 Time Sampled: 1342

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	ND(0.50)	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	0.20	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	ND(0.50)	mg/L	9996/662
Orthophosphate, as P, D-React.	0.072 DM	mg/L	7182/342
Phosphorus, Total, as P	0.06	mg/L	7321/651
Solids, Total Suspended	46	mg/L	7438/200
Turbidity	43.7	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1358	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1406	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1752	141010-2	141010-3	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1515	141028-1	141028-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1554	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1705	141010-1	141010-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100976

Lab Number: 14100977
 Sample Description: LA@N. Meridian

Date Sampled: 10/10/2014
 Time Sampled: 1400

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	2420	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	0.89	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	0.11	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	1.00	mg/L	9996/662
Orthophosphate, as P, D-React.	0.269 DM	mg/L	7182/342
Phosphorus, Total, as P	0.37	mg/L	7321/651
Solids, Total Suspended	41	mg/L	7438/200
Turbidity	26.5	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert

-Continued-

Sample Results

Page: 6

Client: City of Wichita
 Attn: Jim Hardesty
 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 10/29/2014
 Date Received: 10/10/2014
 Continental File No: 8339
 Continental Order No: 121977

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1359	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1407	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1753	141010-2	141010-3	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1516	141028-1	141028-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1554	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1706	141010-1	141010-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100977

Lab Number: 14100978
 Sample Description: Ark@53rd St N.

Date Sampled: 10/10/2014
 Time Sampled: 1411

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	1300	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	0.65	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	1.91	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	2.56	mg/L	9996/662
Orthophosphate, as P, D-React.	0.116 DM	mg/L	7182/342
Phosphorus, Total, as P	0.19	mg/L	7321/651
Solids, Total Suspended	76	mg/L	7438/200
Turbidity	74.6	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1400	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1408	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1753	141010-2	141010-3	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1517	141028-1	141028-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1555	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1707	141010-1	141010-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100978

Sample Results

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Client: City of Wichita
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 City Hall, 8th Floor
 455 N. Main
 Wichita, KS 67202

Date Reported: 10/29/2014
 Date Received: 10/10/2014
 Continental File No: 8339
 Continental Order No: 121977

Lab Number: 14100979
 Sample Description: Chisholm@Pawnee

Date Sampled: 10/10/2014
 Time Sampled: 1315

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	0.71	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	0.56	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	1.27	mg/L	9996/662
Orthophosphate, as P, D-React.	0.097 DM	mg/L	7182/342
Phosphorus, Total, as P	0.17	mg/L	7321/651
Solids, Total Suspended	25	mg/L	7438/200
Turbidity	23.6	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1401	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1410	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1753	141010-2	141010-3	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1518	141028-1	141028-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1555	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1708	141010-1	141010-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100979

Lab Number: 14100980
 Sample Description: Gypsum@Hillside

Date Sampled: 10/10/2014
 Time Sampled: 1325

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	0.61	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	0.36	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	0.97	mg/L	9996/662
Orthophosphate, as P, D-React.	0.057 DM	mg/L	7182/342
Phosphorus, Total, as P	0.08	mg/L	7321/651
Solids, Total Suspended	18	mg/L	7438/200
Turbidity	15.9	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert

-Continued-

Sample Results

Client: City of Wichita
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Date Reported: 10/29/2014
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<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1403	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1411	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1753	141010-2	141010-3	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1518	141028-1	141028-1	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1555	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1708	141010-1	141010-1	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100980

Lab Number: 14100981
 Sample Description: S. Slough@Hydraulic

Date Sampled: 10/10/2014
 Time Sampled: 1340

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	387	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	ND(0.50)	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	ND(0.10)	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	ND(0.50)	mg/L	9996/662
Orthophosphate, as P, D-React.	ND(0.050) DM	mg/L	7182/342
Phosphorus, Total, as P	0.06	mg/L	7321/651
Solids, Total Suspended	27	mg/L	7438/200
Turbidity	9.18	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1404	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1412	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1754	141010-2	141010-4	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1521	141028-1	141028-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1555	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1711	141010-1	141010-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100981

Sample Results

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Lab Number: 14100982
 Sample Description: Ark@83rd St S.

Date Sampled: 10/10/2014
 Time Sampled: 1355

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	1.05	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	3.31	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	4.36	mg/L	9996/662
Orthophosphate, as P, D-React.	0.434 DM	mg/L	7182/342
Phosphorus, Total, as P	0.64	mg/L	7321/651
Solids, Total Suspended	107	mg/L	7438/200
Turbidity	75.8	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1405	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1413	141022-2	141022-4	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as N	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-React	N/A	10/10/14 1755	141010-2	141010-4	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1523	141028-1	141028-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1556	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1712	141010-1	141010-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100982

Lab Number: 14100983
 Sample Description: Cowskin@MacArthur

Date Sampled: 10/10/2014
 Time Sampled: 1420

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	613	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	0.56	mg/L	7321/645
Nitrate/Nitrite, as N (FIA)	2.04	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	2.60	mg/L	9996/662
Orthophosphate, as P, D-React.	0.456 DM	mg/L	7182/342
Phosphorus, Total, as P	0.47	mg/L	7321/651
Solids, Total Suspended	9	mg/L	7438/200
Turbidity	77.4	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert

-Continued-

Sample Results

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<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1406	141020-1	141021-3	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1417	141022-2	141022-5	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1755	141010-2	141010-4	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1524	141028-1	141028-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1556	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1713	141010-1	141010-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100983

Lab Number: 14100984
 Sample Description: S. Slough@Meridian

Date Sampled: 10/10/2014
 Time Sampled: 1420

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Book/Page</u>
E. Coli	>2420	MPN/100 mL	7448/44
Kjeldahl Nitrogen, as N (TKN)	0.87	mg/L	7321/644
Nitrate/Nitrite, as N (FIA)	0.29	mg/L	7321/647
Nitrogen (TKN + NO3/NO2), as N	1.16	mg/L	9996/662
Orthophosphate, as P, D-React.	0.190 DM	mg/L	7182/342
Phosphorus, Total, as P	0.24	mg/L	7321/651
Solids, Total Suspended	18	mg/L	7438/200
Turbidity	27.4	NTU	7013/64

<u>Analysis</u>	<u>Date/Time Prepared</u>	<u>Date/Time Analyzed</u>	<u>QC Batch</u>	<u>Inst. Batch</u>	<u>Analyst</u>	<u>Method(s)</u>
E. Coli	N/A	10/10/14 1730	141010-1	141010-1	ASK	SM 9223B Colilert
Kjeldahl Nitrogen, as N (TKN)	10/20/14 1115	10/21/14 1439	141020-1	141021-4	KJH	EPA 351.2
Nitrate/Nitrite, as N (FIA)	N/A	10/22/14 1418	141022-2	141022-5	KJH	4500-NO3(F)-2000
Nitrogen (TKN + NO3/NO2), as	N/A	10/23/14 1020	N/A	N/A	CJB	Calculation
Orthophosphate, as P, D-Reac	N/A	10/10/14 1755	141010-2	141010-4	MLL	4500-P(E)-1999
Phosphorus, Total, as P	10/28/14 1100	10/28/14 1524	141028-1	141028-2	KJH	4500-P(B&G)-1999
Solids, Total Suspended	N/A	10/17/14 1556	141017-1	141017-1	KJH	SM 2540 (D)-1997
Turbidity	N/A	10/10/14 1714	141010-1	141010-2	JND	SM 2130 (B)-2001

Conclusion of Lab Number: 14100984

Appendix

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ND(), where reported, indicates the analyte was not detected above the Limit of Quantitation (LOQ). The concentration of the LOQ is inside the parentheses.

All samples which require cooling were received at a temperature of less than 6 degrees Celsius.

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14100973	E. Coli	10/10/2014 1427	10/10/2014 1730	3:03
14100973	Orthophosphate, as P, D-React.	10/10/2014 1427	10/10/2014 1751	3:24
14100973	Turbidity	10/10/2014 1427	10/10/2014 1700	2:33
14100974	E. Coli	10/10/2014 1300	10/10/2014 1730	4:30
14100974	Orthophosphate, as P, D-React.	10/10/2014 1300	10/10/2014 1752	4:52
14100974	Turbidity	10/10/2014 1300	10/10/2014 1702	4:02
14100975	E. Coli	10/10/2014 1322	10/10/2014 1730	4:08
14100975	Orthophosphate, as P, D-React.	10/10/2014 1322	10/10/2014 1752	4:30
14100975	Turbidity	10/10/2014 1322	10/10/2014 1703	3:41
14100976	E. Coli	10/10/2014 1342	10/10/2014 1730	3:48
14100976	Orthophosphate, as P, D-React.	10/10/2014 1342	10/10/2014 1752	4:10
14100976	Turbidity	10/10/2014 1342	10/10/2014 1705	3:23
14100977	E. Coli	10/10/2014 1400	10/10/2014 1730	3:30
14100977	Orthophosphate, as P, D-React.	10/10/2014 1400	10/10/2014 1753	3:53
14100977	Turbidity	10/10/2014 1400	10/10/2014 1706	3:06
14100978	E. Coli	10/10/2014 1411	10/10/2014 1730	3:19
14100978	Orthophosphate, as P, D-React.	10/10/2014 1411	10/10/2014 1753	3:42
14100978	Turbidity	10/10/2014 1411	10/10/2014 1707	2:56
14100979	E. Coli	10/10/2014 1315	10/10/2014 1730	4:15
14100979	Orthophosphate, as P, D-React.	10/10/2014 1315	10/10/2014 1753	4:38
14100979	Turbidity	10/10/2014 1315	10/10/2014 1708	3:53
14100980	E. Coli	10/10/2014 1325	10/10/2014 1730	4:05
14100980	Orthophosphate, as P, D-React.	10/10/2014 1325	10/10/2014 1753	4:28
14100980	Turbidity	10/10/2014 1325	10/10/2014 1708	3:43
14100981	E. Coli	10/10/2014 1340	10/10/2014 1730	3:50
14100981	Orthophosphate, as P, D-React.	10/10/2014 1340	10/10/2014 1754	4:14
14100981	Turbidity	10/10/2014 1340	10/10/2014 1711	3:31

The following table presents the date and time sampled, the date and time analyzed, and the total time elapsed for each analysis with an EPA recommended holding time of seventy-two hours or less.

<u>CAS LAB ID #</u>	<u>ANALYSIS</u>	<u>DATE/TIME SAMPLED</u>	<u>DATE/TIME ANALYZED</u>	<u>ELAPSED HRS:MIN</u>
14100982	E. Coli	10/10/2014 1355	10/10/2014 1730	3:35
14100982	Orthophosphate, as P, D-React.	10/10/2014 1355	10/10/2014 1755	4:00
14100982	Turbidity	10/10/2014 1355	10/10/2014 1712	3:17
14100983	E. Coli	10/10/2014 1420	10/10/2014 1730	3:10
14100983	Orthophosphate, as P, D-React.	10/10/2014 1420	10/10/2014 1755	3:35
14100983	Turbidity	10/10/2014 1420	10/10/2014 1713	2:53
14100984	E. Coli	10/10/2014 1420	10/10/2014 1730	3:10
14100984	Orthophosphate, as P, D-React.	10/10/2014 1420	10/10/2014 1755	3:35
14100984	Turbidity	10/10/2014 1420	10/10/2014 1714	2:54

QC - QC data qualifiers were noted. See the Quality Control Report.

DM - NPDES requirements specify that dissolved metals and orthophosphate must be filtered within 15 minutes of the time of collection. This analysis did not meet these criteria.

Accreditation Summary

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NELAP accreditation is issued under each EPA regulatory program for a given matrix/analyte/method combination. Continental is NELAP accredited for each matrix/analyte/method and EPA program cited in this Laboratory Report, except for those listed in the table below and for analyses performed in the field. For most of the analyses listed in the table, NELAP accreditation is not offered under the listed EPA program and Continental is NELAP accredited for the analysis, using the same analytical technology, but under a different EPA program. Continental's full NELAP accreditation status may be viewed at www.kdheks.gov/envlab. Note that unless qualified otherwise in the Laboratory Report, Continental performs all analyses, including each analysis listed in the table below, utilizing NELAP protocol.

<u>Test</u>	<u>Analysis</u>	<u>Matrix-Regulatory Program</u>	<u>Method</u>	<u>CAS NELAP Accredited in Other Reg. Program</u>
GL343	Nitrogen (TKN + NO3/NO2), as N	L-NPDES	Calculation	No

Quality Control Report Batch Summary

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Test Code	Testname	QC Batch	Method Blank Date/Time Analyzed	LCS Date/Time Analyzed	MS Lab No. Date/Time Analyzed
GL347	E. Coli	141010-1	141010BLK1 10/10/14 1730	N/A	14100973MS 10/10/14 1730
Lab numbers associated with this batch: 14100973 14100974 14100975 14100976 14100977 14100978 14100979 14100980 14100981 14100982 14100983 14100984					
GL595	Kjeldahl Nitrogen, as N (TKN)	141020-1	141020BLK1 10/21/14 1256	141020LCS1 10/21/14 1257	14100973MS 10/21/14 1311
Lab numbers associated with this batch: 14100973 14100974 14100975 14100976 14100977 14100978 14100979 14100980 14100981 14100982 14100983 14100984					
GL192	Nitrate/Nitrite, as N (FIA)	141022-2	141022BLK2 10/22/14 1353	141022LCS2 10/22/14 1354	14100782MS 10/22/14 1358
Lab numbers associated with this batch: 14100973 14100974 14100975 14100976 14100977 14100978 14100979 14100980 14100981 14100982 14100983 14100984					
GL343	Nitrogen (TKN + NO3/NO2), as N		N/A	N/A	
Lab numbers associated with this batch: 14100973 14100974 14100975 14100976 14100977 14100978 14100979 14100980 14100981 14100982 14100983 14100984					
GL176	Orthophosphate, as P, D-React.	141010-2	141010BLK2 10/10/14 1751	141010LCS2 10/10/14 1751	14100981MS 10/10/14 1754
Lab numbers associated with this batch: 14100973 14100974 14100975 14100976 14100977 14100978 14100979 14100980 14100981 14100982 14100983 14100984					
GL218	Phosphorus, Total, as P	141028-1	141028BLK1 10/28/14 1512	141028LCS1 10/28/14 1512	14100981MS 10/28/14 1521
Lab numbers associated with this batch: 14100973 14100974 14100975 14100976 14100977 14100978 14100979 14100980 14100981 14100982 14100983 14100984					
GL243	Solids, Total Suspended	141017-1	141017BLK1 10/17/14 1553	N/A	14101065MS 10/17/14 1558
Lab numbers associated with this batch: 14100973 14100974 14100975 14100976 14100977 14100978 14100979 14100980 14100981 14100982 14100983 14100984					
GL275	Turbidity	141010-1	141010BLK1 10/10/14 1659	N/A	14100973MS 10/10/14 1700
Lab numbers associated with this batch: 14100973 14100974 14100975 14100976 14100977 14100978 14100979 14100980 14100981 14100982 14100983 14100984					

Quality Control Report
Method Blank, LCS, MS/MSD Data

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Analysis	Method Blank	LCS % Rec	LCS Limits	LCS Spike Level	Units	Spiked Sample (% Recovery)		MS/MSD Limits	MS/MSD Spike Level	Units	Spiked Sample Precision Data	
						MS	MSD				RPD	Limit
QC Batch: 141010-1	For sample analyzed on: 10/10/2014					Spiked sample: 14100973						
Turbidity	ND(0.50)	N/A	#	N/A	NTU	125 T	126 T	#	N/A	NTU	0.80	6.0
E. Coli	ND(1)	N/A	#	N/A	MPN/10	1730 T	1200 T	#	N/A	MPN/10	36.1	127
QC Batch: 141010-2	For sample analyzed on: 10/10/2014					Spiked sample: 14100981						
Orthophosphate, as P, D-React	ND(0.050)	99.2	90.0-110	0.50	mg/L	102	104	87.6-109	0.50	mg/L	1.70	5.9
QC Batch: 141017-1	For sample analyzed on: 10/17/2014					Spiked sample: 14101065						
Solids, Total Suspended	ND(5)	N/A	#	N/A	mg/L	MN	MN	#	N/A	mg/L	**	23.7
QC Batch: 141020-1	For samples prepared on: 10/20/2014 1115					Spiked sample: 14100973						
Kjeldahl Nitrogen, as N (TKN)	ND(0.50)	94.0	90.0-110	4.0	mg/L	90.5	42.5 MZ	52.9-133	4.0	mg/L	23.4	17.2
QC Batch: 141022-2	For sample analyzed on: 10/22/2014					Spiked sample: 14100782						
Nitrate/Nitrite, as N (FIA)	ND(0.10)	101	90.0-110	2.0	mg/L	MN	MN	88.9-111	20.0	mg/L	**	3.5
QC Batch: 141028-1	For samples prepared on: 10/28/2014 1100					Spiked sample: 14100981						
Phosphorus, Total, as P	ND(0.05)	105	90.0-110	2.0	mg/L	104	104	66.4-125	2.0	mg/L	0.0	14.1

Data Qualifiers:

T - A MS/MSD cannot be performed for this analysis and a duplicate analysis is performed. The MS and MSD results are from two separate analyses.

MN - The MS/MSD sample analyses were not performed on a sample from this Continental order number.

MZ - The MSD recovery and the MS/MSD precision for this analyte were outside of method or laboratory control limits. See LCS data for the basis for acceptance of this sample. Reported sample concentration is estimated.

- Limits not applicable/not available for this analysis.

** - RPD calculation not applicable/not available for this analysis.

Quality Control Report
Continuing Calibration Report

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<u>Analysis</u>	<u>Date of</u> <u>Analysis</u>	<u>Instrument</u> <u>Batch ID</u>	<u>Amount in</u> <u>Standard</u>	<u>Amount</u> <u>Detected</u>	<u>Units</u>	<u>Percent</u> <u>Recovery</u>
Orthophosphate, as P, D-React.	10/10/2014	141010-3	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P, D-React.	10/10/2014	141010-4	CCV recovery acceptable for this			Instrument Batch.
Orthophosphate, as P, D-React.	10/10/2014	141010-5	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	10/22/2014	141022-4	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	10/22/2014	141022-5	CCV recovery acceptable for this			Instrument Batch.
Nitrate/Nitrite, as N (FIA)	10/22/2014	141022-6	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	10/28/2014	141028-1	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	10/28/2014	141028-2	CCV recovery acceptable for this			Instrument Batch.
Phosphorus, Total, as P	10/28/2014	141028-3	CCV recovery acceptable for this			Instrument Batch.
Turbidity	10/10/2014	141010-1	CCV recovery acceptable for this			Instrument Batch.
Turbidity	10/10/2014	141010-2	CCV recovery acceptable for this			Instrument Batch.
Turbidity	10/10/2014	141010-3	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	10/21/2014	141021-3	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	10/21/2014	141021-4	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	10/21/2014	141021-5	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	10/21/2014	141021-6	CCV recovery acceptable for this			Instrument Batch.
Kjeldahl Nitrogen, as N (TKN)	10/21/2014	141021-7	CCV recovery acceptable for this			Instrument Batch.

- Laboratory Report Conclusion -

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 121977

Client Name: Wichita

CAS File No.: 8239

Sample ID's in cooler: 135th Central 53rd Meridian Northside
Eastern

Cooler 1 of 2 for this CAS Order No.

Cooler Identification: CAS Cooler #: Client's Cooler / Box / Letter / Hand-delivered
Other:

Date/Time Cooler Received: 10/10/14 16:20

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other:

Custody Seal: Present: Intact / Broken Absent Seal No:
Seal Name: Seal Date:

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other:

Cooler Temperature (°C): Original Reading (°C) 1.3 Corrected Reading (°C) 1.7

Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: 585 Thermo. Correction Factor (°C): 0.4

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter Container
 - PO CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies:

Detail to discrepancies/comments: LA @ N. Meridian just labeled CA @ Meridian

Completed by: [Signature] Date Completed: 10-10-14

Continental Analytical Services, Inc.
Cooler/Sample Receipt Form (C/S RF)

CAS Order No.: 21977

Client Name: Wichita

CAS File No.: 8339

Sample ID's in cooler: Gyp Hillside MacArthur 83rd S
S. Slaughter Turner Hydraulic

Cooler 2 of 2 for this CAS Order No.

Cooler Identification: CAS Cooler #: Client's Cooler / Box / Letter / Hand-delivered
Other:

Date/Time Cooler Received: 10, 10, 14 10:20

Delivered By: UPS / FedX / AB Express / Field Svcs / Mail / Walk-In / Other:

Custody Seal: Present: Intact / Broken Absent: X Seal No:
Seal Name: Seal Date:

Seal matches Chain of Custody: Yes / No / N/A

Type of Packing Material: Blue Ice / Ice / Melted Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / None / Other:

Cooler Temperature (°C): Original Reading (°C) 3.3 Corrected Reading (°C) 3.7

Temperature. By: Temperature Blank Surface Temperature
Thermo. ID No.: 585 Thermo. Correction Factor (°C): 0.4

Evidence of Cooling and date received = date sampled

Sample Receipt Discrepancies: No Yes (See below for discrepancies.)

Note: If discrepancies are present, CAS will proceed with analyses until/unless directed otherwise by the client.

- Chain of Custody not present - information taken from:
 - Cover Letter
 - Container
 - PO
 - CAS Proj. Mgr.
- Container label absent
- Chain of Custody incomplete [see detail below]
- Chain of Custody missing date/time sampled (excl. TB or Dup.)
- Date or Time sampled obtained from container label
- Chain of Custody missing sampler's name
- Chain of Custody missing matrix (sample type)
- Missing relinquished information: signature date time
- Sample excluded from Chain of Custody
- Sample listed on Chain of Custody, not received
- Sample identification on container and Chain of Custody do not agree
- Air bubbles in Aqueous VOA vials larger than pea-size [approx. 6 mm]
- Cooler temperature exceeded 0.1 - 6.0 °C requirement [Do not mark if samples do not require cooling to 0.1 - 6.0 °C.]
- Broken or leaking containers (detail actions below)
- Sample container type or labeled chemical preservation inappropriate
- Other discrepancies: _____

Detail to discrepancies/comments:

Completed by: [Signature] Date Completed: 10-10-14