



ANALYTICAL SUMMARY REPORT

February 27, 2019

Lehrkinds Coca Cola Bottling Co
PO Box 10580
Bozeman, MT 59719-0580

Work Order: B19021107
Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Lehrkinds Coca Cola Bottling Co on 2/15/2019 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B19021107-001	Refresh	02/14/19 10:30	02/15/19	Drinking Water	Metals by ICP/ICPMS, Acid Soluble Alkalinity Anion - Cation Balance Conductivity Hardness Hardness as CaCO3, grains/gallon Chloride Sulfate/Anions by Ion Chromatography Langelier Index Livestock Suitability; Irrigation Classification Nitrogen, Nitrate + Nitrite pH Sodium Adsorption Ratio Solids, Total Dissolved - Calculated

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

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

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Coca Cola Bottling Co
Project: Not Indicated
Lab ID: B19021107-001
Client Sample ID: Refresh

Report Date: 02/27/19
Collection Date: 02/14/19 10:30
Date Received: 02/15/19
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.0	s.u.	H	0.1		A4500-H B	02/19/19 14:07 / pjw
pH Measurement Temp	20	°C				A4500-H B	02/19/19 14:07 / pjw
Conductivity @ 25 C	31	umhos/cm		5		A2510 B	02/19/19 14:07 / pjw
Corrosivity (Langelier Index)	-3					A2330 B	02/27/19 08:20 / klc
Solids, Total Dissolved - Calculated	17	mg/L		1		A1030 E	02/27/19 08:20 / klc
- Langelier was calculated using a default temperature of 20 degrees C.							
INORGANICS							
Alkalinity, Total as CaCO3	11	mg/L		4		A2320 B	02/19/19 18:07 / cke
Bicarbonate as HCO3	14	mg/L		4		A2320 B	02/19/19 18:07 / cke
Carbonate as CO3	ND	mg/L		4		A2320 B	02/19/19 18:07 / cke
Chloride	2	mg/L		1		E300.0	02/21/19 22:10 / rco
Sulfate	ND	mg/L		1		E300.0	02/21/19 22:10 / rco
Fluoride	ND	mg/L		0.2		E300.0	02/21/19 22:10 / rco
Hardness as CaCO3	12	mg/L		1		A2340 B	02/20/19 11:31 / klc
Hardness as CaCO3 - Grains	0.7	grains/gal		0.1		A2340 B	02/20/19 11:31 / klc
Sodium Adsorption Ratio (SAR)	0.17	unitless		0.01		Calculation	02/20/19 11:31 / klc
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.28	mg/L		0.01	10	E353.2	02/20/19 09:55 / mmc
METALS, ACID-SOLUBLE							
Calcium	3	mg/L		1		E200.7	02/20/19 11:31 / rlh
Iron	ND	mg/L		0.03		E200.7	02/20/19 11:31 / rlh
Magnesium	ND	mg/L		1		E200.7	02/20/19 11:31 / rlh
Potassium	ND	mg/L		1		E200.7	02/20/19 11:31 / rlh
Sodium	1	mg/L		1		E200.7	02/20/19 11:31 / rlh
QUALITY CONTROL							
A/C Balance	-2.11	%				A1030 E	02/27/19 08:20 / klc
Cation\Anion Balance <=±0.2 meq/L Difference							

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 H - Analysis performed past recommended holding time.
 MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

Sample ID: B19021107-001

Client ID: LHRKNDS-CC-CL-BTTLNG-C

Livestock Suitability

Based on the mineral content only, the water is suitable for all classes of livestock.

Irrigation Classification

<p>Salinity Hazard</p>	<p>C1</p>	<p>Low-Salinity Water:</p>	<p>can be used for irrigation with most crops on most soils with little likelihood that soil salinity will develop. Some leaching is required, but this occurs under normal irrigation practices except in soils of extremely low permeability.</p>
<p>Sodium (Alkali) Hazard</p>	<p>S1</p>	<p>Low-Sodium Water:</p>	<p>can be used for irrigation on almost all soils with little danger of the development of harmful levels of exchangeable sodium. However, sodium-sensitive crops such as stone-fruit trees and avocados may accumulate injurious concentrations of sodium.</p>



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Coca Cola Bottling Co

Report Date: 02/27/19

Project: Not Indicated

Work Order: B19021107

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										
Batch: R315582										
Lab ID: MBLK		Method Blank								
Alkalinity, Total as CaCO3		2	mg/L	0.7						
Run: Metrohm 2_190219A										
02/19/19 17:16										
Lab ID: LCS		Laboratory Control Sample								
Alkalinity, Total as CaCO3		102	mg/L	4.0	99	90	110			
Run: Metrohm 2_190219A										
02/19/19 17:19										
Lab ID: B19021086-006ADUP	3	Sample Duplicate								
Alkalinity, Total as CaCO3		ND	mg/L	4.0						10
Bicarbonate as HCO3		ND	mg/L	4.0						10
Carbonate as CO3		ND	mg/L	4.0						10
Run: Metrohm 2_190219A										
02/19/19 17:27										
Lab ID: B19021089-001BDUP	3	Sample Duplicate								
Alkalinity, Total as CaCO3		207	mg/L	4.0				0.0		10
Bicarbonate as HCO3		249	mg/L	4.0				0.2		10
Carbonate as CO3		1.46	mg/L	4.0						10
Run: Metrohm 2_190219A										
02/19/19 17:35										
Lab ID: B19021104-001AMS		Sample Matrix Spike								
Alkalinity, Total as CaCO3		248	mg/L	4.0	96	80	120			
Run: Metrohm 2_190219A										
02/19/19 17:54										

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Coca Cola Bottling Co

Report Date: 02/27/19

Project: Not Indicated

Work Order: B19021107

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B										Batch: R315584
Lab ID: SC 2nd 1413		Laboratory Control Sample					Run: PHSC _101-B_190219A			02/19/19 10:49
Conductivity @ 25 C		1400	umhos/cm	5.0	99	90	110			
Lab ID: MBLK		Method Blank					Run: PHSC _101-B_190219A			02/19/19 12:51
Conductivity @ 25 C		ND	umhos/cm	5						
Lab ID: B19021082-001ADUP		Sample Duplicate					Run: PHSC _101-B_190219A			02/19/19 12:56
Conductivity @ 25 C		368	umhos/cm	5.0				0.3	10	
Lab ID: B19021086-004ADUP		Sample Duplicate					Run: PHSC _101-B_190219A			02/19/19 13:25
Conductivity @ 25 C		1180	umhos/cm	5.0				0.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Coca Cola Bottling Co

Report Date: 02/27/19

Project: Not Indicated

Work Order: B19021107

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-H B								Analytical Run: PHSC _101-B_190219A			
Lab ID: pH 8	2	Initial Calibration Verification Standard								02/19/19 10:36	
pH		8.03	s.u.	0.10	100	98	102				
pH Measurement Temp		19.7	°C			0	0				
Method: A4500-H B								Batch: R315584			
Lab ID: B19021086-004ADUP	2	Sample Duplicate						Run: PHSC _101-B_190219A		02/19/19 13:25	
pH		7.52	s.u.	0.10				0.1	3		
pH Measurement Temp		18.7	°C								
Lab ID: B19021104-001ADUP	2	Sample Duplicate						Run: PHSC _101-B_190219A		02/19/19 14:01	
pH		7.99	s.u.	0.10				0.0	3		
pH Measurement Temp		20.2	°C								

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Coca Cola Bottling Co

Report Date: 02/27/19

Project: Not Indicated

Work Order: B19021107

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: ICP204-B_190220A		
Lab ID: ICV	5	Continuing Calibration Verification Standard								02/20/19 09:37
Calcium		25.3	mg/L	1.0	101	95	105			
Iron		2.50	mg/L	0.020	100	95	105			
Magnesium		25.3	mg/L	1.0	101	95	105			
Potassium		25.1	mg/L	1.0	100	95	105			
Sodium		25.1	mg/L	1.0	100	95	105			
Method: E200.7								Batch: R315659		
Lab ID: MB-7400DIS180220A	5	Method Blank						Run: ICP204-B_190220A		02/20/19 09:45
Calcium		ND	mg/L	0.07						
Iron		ND	mg/L	0.02						
Magnesium		ND	mg/L	0.02						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.1						
Lab ID: LFB-7400DIS180220A	5	Laboratory Fortified Blank						Run: ICP204-B_190220A		02/20/19 09:54
Calcium		48.4	mg/L	1.0	97	85	115			
Iron		4.78	mg/L	0.020	96	85	115			
Magnesium		48.1	mg/L	1.0	96	85	115			
Potassium		48.2	mg/L	1.0	96	85	115			
Sodium		47.8	mg/L	1.0	96	85	115			
Lab ID: B19021155-001BMS2	5	Sample Matrix Spike						Run: ICP204-B_190220A		02/20/19 11:15
Calcium		445	mg/L	1.0	95	70	130			
Iron		28.0	mg/L	0.086	97	70	130			
Magnesium		355	mg/L	1.0	97	70	130			
Potassium		250	mg/L	1.0	97	70	130			
Sodium		765	mg/L	1.0	93	70	130			
Lab ID: B19021155-001BMSD	5	Sample Matrix Spike Duplicate						Run: ICP204-B_190220A		02/20/19 11:27
Calcium		446	mg/L	1.0	96	70	130	0.1	20	
Iron		28.1	mg/L	0.086	97	70	130	0.1	20	
Magnesium		356	mg/L	1.0	97	70	130	0.1	20	
Potassium		251	mg/L	1.0	98	70	130	0.5	20	
Sodium		764	mg/L	1.0	92	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Coca Cola Bottling Co

Report Date: 02/27/19

Project: Not Indicated

Work Order: B19021107

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0		Analytical Run: IC METROHM 2_190221A									
Lab ID: ICV	3	Initial Calibration Verification Standard							02/21/19 12:05		
Chloride		103	mg/L	1.0	103	90	110				
Sulfate		418	mg/L	1.0	105	90	110				
Fluoride		5.42	mg/L	0.20	108	90	110				
Method: E300.0		Batch: R315786									
Lab ID: ICB	3	Method Blank							Run: IC METROHM 2_190221A 02/21/19 12:20		
Chloride		ND	mg/L	0.05							
Sulfate		0.05	mg/L	0.03							
Fluoride		ND	mg/L	0.02							
Lab ID: LFB	3	Laboratory Fortified Blank							Run: IC METROHM 2_190221A 02/21/19 12:36		
Chloride		26.3	mg/L	1.0	105	90	110				
Sulfate		108	mg/L	1.0	108	90	110				
Fluoride		1.33	mg/L	0.20	106	90	110				
Lab ID: B19021086-003AMS	3	Sample Matrix Spike							Run: IC METROHM 2_190221A 02/21/19 20:21		
Chloride		715	mg/L	1.3	108	90	110				
Sulfate		3960	mg/L	3.8	105	90	110				
Fluoride		26.4	mg/L	0.38	98	90	110				
Lab ID: B19021086-003AMSD	3	Sample Matrix Spike Duplicate							Run: IC METROHM 2_190221A 02/21/19 20:37		
Chloride		708	mg/L	1.3	107	90	110	0.9	20		
Sulfate		3920	mg/L	3.8	103	90	110	1.1	20		
Fluoride		26.3	mg/L	0.38	97	90	110	0.4	20		
Lab ID: B19021114-004AMS	3	Sample Matrix Spike							Run: IC METROHM 2_190221A 02/21/19 23:58		
Chloride		271	mg/L	1.0	108	90	110				
Sulfate		3440	mg/L	1.9	116	90	110			S	
Fluoride		13.1	mg/L	0.20	93	90	110				
Lab ID: B19021114-004AMSD	3	Sample Matrix Spike Duplicate							Run: IC METROHM 2_190221A 02/22/19 00:15		
Chloride		275	mg/L	1.0	110	90	110	1.4	20		
Sulfate		3480	mg/L	1.9	119	90	110	1.1	20	S	
Fluoride		13.3	mg/L	0.20	95	90	110	1.8	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Coca Cola Bottling Co

Report Date: 02/27/19

Project: Not Indicated

Work Order: B19021107

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Analytical Run: FIA203-B_190220A		
Lab ID: ICV	Initial Calibration Verification Standard									
Nitrogen, Nitrate+Nitrite as N		0.580	mg/L	0.010	103	90	110			02/20/19 09:36
Method: E353.2								Batch: R315655		
Lab ID: MBLK	Method Blank									
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.009						02/20/19 09:37
Method: LFB								Run: FIA203-B_190220A		
Lab ID: LFB	Laboratory Fortified Blank									
Nitrogen, Nitrate+Nitrite as N		1.01	mg/L	0.010	101	90	110			02/20/19 09:39
Method: B19021155-001AMS								Run: FIA203-B_190220A		
Lab ID: B19021155-001AMS	Sample Matrix Spike									
Nitrogen, Nitrate+Nitrite as N		1.01	mg/L	0.010	101	90	110			02/20/19 09:45
Method: B19021155-001AMSD								Run: FIA203-B_190220A		
Lab ID: B19021155-001AMSD	Sample Matrix Spike Duplicate									
Nitrogen, Nitrate+Nitrite as N		1.03	mg/L	0.010	103	90	110	1.9	10	02/20/19 09:46

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Work Order Receipt Checklist

Lehrkinds Coca Cola Bottling Co

B19021107

Login completed by: Sydney L. McCleary

Date Received: 2/15/2019

Reviewed by: BL2000\gmccartney

Received by: se

Reviewed Date: 2/20/2019

Carrier name: Return-UPS Ground

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on all shipping container(s)/cooler(s)? Yes No Not Present
- Custody seals intact on all sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time?
(Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) Yes No
- Temp Blank received in all shipping container(s)/cooler(s)? Yes No Not Applicable
- Container/Temp Blank temperature: 3.5°C No Ice
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None



Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

Page _____ of _____

Comments

Account Information (Billing information)

Company/Name Lehends CCL
 Contact Rue Siring
 Phone 404 548 2774
 Mailing Address 1715 N. Deen
 City, State, Zip Beaufort NC 28515
 Email rsiring@lehends.com
 Receive Invoice Hard Copy Email Email
 Purchase Order Hard Copy Email Email
 Quote Bottle Order

Report Information (if different than Account Information)

Company/Name _____
 Contact Joe Mentim
 Phone 406 548 2774
 Mailing Address _____
 City, State, Zip _____
 Email JoeMentim@lehends.com
 Receive Report Hard Copy Email
 Special Report Formats: LEVEL IV NELAC EDD/IEDT (contact laboratory) Other

Comments

Project Information

Project Name, PWSID, Permit, etc. _____
 Sampler Name _____ Sampler Phone _____
 Sample Origin State _____ EPA/State Compliance Yes No
 MINING CLIENTS, please indicate sample type.
 *If ore has been processed or refined, call before sending.
 Byproduct 11 (e2) material Unprocessed ore (NOT ground or refined)*

Matrix Codes
 A - Air
 W - Water
 S - Solids
 V - Vegetation
 B - Bioassay
 O - Other
 DW - Drinking Water

Analysis Requested

Matrix Code	Number of Containers	Matrix (See Codes Above)	Analysis Requested
W	1	DW	Metals
W	1	DW	Chloride/Sulfate/Amonium
W	1	DW	Conductivity/Aliquots

All turnaround times are standard unless marked as RUSH.
 Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

RUSH TAT
 EU LAB ID Laboratory Use Only
 B19021107

Sample Identification (Name, Location, Interval, etc.)	Collection Date	Time	Number of Containers	Matrix (See Codes Above)	Received by (print)	Date/Time	Signature
Retresh	2/14/19	10:30a	1	DW	Jessie Edger	2/15/19	9:00a
Retresh	2/14/19	10:30a	1	DW	Jessie Edger	2/15/19	9:00a
Retresh	2/14/19	10:30a	1	DW	Jessie Edger	2/15/19	9:00a

Custody Record MUST be signed by (print) Joe Mentim Date/Time 2/14/19 10:30a Signature [Signature]
 Relinquished by (print) Joe Mentim Date/Time 2/14/19 10:30a Signature [Signature]
 Relinquished by (print) _____ Date/Time _____ Signature _____

Shipped By _____ Cooler ID(s) _____ Intact _____ Receipt Temp _____ °C
 Y N C B Y N
 Custody Seals _____ Temp Blank _____ On Ice _____ Payment Type _____ Amount \$ _____
 Y N C B Y N CC Cash Check
 Receipt Number (cash/check only) _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.



Trust our People. Trust our Data.
www.energylab.com

Billings, MT 800.735.4488 • Casper, WY 888.235.0515 • Gillette, WY 866.806.7175 • Helena, MT 877.472.0711

BOTTLE ORDER 130280



SHIPPED TO: Lehrkinds Coca Cola Bottling Co

Contact: Joe McEntire

1715 N Rouse Ave

Bozeman MT 59715-2426

Phone: (406) 586-2029

Project: refresh domestic use

Order Created by: Wynn Pippin

Shipped From: Billings, MT

Ship Date: 2/7/2019

VIA: Ground

Bottle Size/Type	Bottles Per Samp	Method	Tests	Critical Hold Time	Preservative	Notes	Num of Samp
Domestic Use							
500 mL Plastic	1	A2510 B	Conductivity				1
		A2320 B	Alkalinity				
		E300.0	Chloride Sulfate/Anions by Ion Chromatography				
250 mL Plastic	1	E200.7_8	Metals by ICP/ICPMS, Drinking Water		<input checked="" type="checkbox"/> HNO3		1
250 mL Plastic	1	E353.2	Nitrogen, Nitrate + Nitrite		<input checked="" type="checkbox"/> H2SO4		1

HNO3 - Nitric Acid H2SO4 - Sulfuric Acid NaOH - Sodium Hydroxide **We strongly suggest that the samples are shipped the same day as they are collected.**

ZnAc - Zinc Acetate HCl - Hydrochloric Acid H3PO4 - Phosphoric Acid

Material Safety Data Sheets(MSDS) Available @ EnergyLab.com ->Services -> MSDS Sheets

Corrosive Chemicals: Nitric, Sulfuric, Phosphoric, Hydrochloric Acids and Sodium Hydroxide. Zinc Acetate is a skin irritant.

Subcontracting of sample analyses to an outside laboratory may be required. If so, Energy Laboratories will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.