

ANALYTICAL REPORT

July 26, 2021

Work Order: 1EG1203

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Report To
Marc VanWyk City of Monroe 206 W Sherman, PO Box 370 Monroe, IA 50170

Work Order Information
Date Received: 7/13/2021 10:38:00AM Collector: VanWyk, Marc Phone: (641) 259-2319 PO Number:

Project: Lead & Copper

Project Number: 5054096

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1EG1203-01	815 N Commerce			Matrix: Drink Wtr		Collected: 07/13/21 08:30	
Copper, total	0.0141 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 17:42	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 17:42	
1EG1203-02	711 N Commerce			Matrix: Drink Wtr		Collected: 07/09/21 08:30	
Copper, total	<0.0025 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 17:48	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 17:48	
1EG1203-03	107 W North			Matrix: Drink Wtr		Collected: 07/12/21 08:30	
Copper, total	<0.0025 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 17:54	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 17:54	
1EG1203-04	502 N Commerce			Matrix: Drink Wtr		Collected: 07/08/21 08:30	
Copper, total	<0.0025 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 18:12	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 18:12	
1EG1203-05	100 E Colfax			Matrix: Drink Wtr		Collected: 07/08/21 08:30	
Copper, total	0.0058 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 18:18	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 18:18	
1EG1203-06	707 N Commerce			Matrix: Drink Wtr		Collected: 07/13/21 08:30	
Copper, total	0.0070 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 18:25	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 18:25	
1EG1203-07	215 W Washington			Matrix: Drink Wtr		Collected: 07/08/21 08:30	
Copper, total	0.0080 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 18:31	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 18:31	
1EG1203-08	407 E Marion			Matrix: Drink Wtr		Collected: 07/08/21 08:30	
Copper, total	0.0095 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 18:37	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 18:37	
1EG1203-09	601 W Washington			Matrix: Drink Wtr		Collected: 07/08/21 08:30	

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City of Monroe
206 W Sherman, PO Box 370
Monroe, IA 50170

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Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1EG1203-09	601 W Washington			Matrix: Drink Wtr		Collected: 07/08/21 08:30	
Copper, total	0.0094 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 18:43	
Lead, total	<0.0010 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 18:43	
1EG1203-10	411 N Commerce			Matrix: Drink Wtr		Collected: 07/08/21 08:30	
Copper, total	<0.0025 mg/L	0.0025	1EG0582	200.8	RVV	07/23/21 18:49	
Lead, total	0.0064 mg/L	0.0010	1EG0582	200.8	RVV	07/23/21 18:49	

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Work Order: 1EG1203

Determination of Total Metals - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1EG0582 - DW Metals Prep										
Blank (1EG0582-BLK1)				Prepared: 07/14/21 Analyzed: 07/23/21						
Copper, total	ND	0.0005	mg/L							
Lead, total	ND	0.0002	"							
LCS (1EG0582-BS1)				Prepared: 07/14/21 Analyzed: 07/23/21						
Copper, total	0.0188	0.0005	mg/L	0.0200000		94.2	85-115			
Lead, total	0.0189	0.0002	"	0.0200000		94.7	85-115			
Matrix Spike (1EG0582-MS1)				Source: 1EG1006-05		Prepared: 07/14/21 Analyzed: 07/23/21				
Copper, total	0.295	0.0025	mg/L	0.102041	0.195	97.3	70-130			
Lead, total	0.101	0.0010	"	0.102041	0.0046	94.2	70-130			
Matrix Spike Dup (1EG0582-MSD1)				Source: 1EG1006-05		Prepared: 07/14/21 Analyzed: 07/23/21				
Copper, total	0.294	0.0025	mg/L	0.102041	0.195	96.8	70-130	0.185	20	
Lead, total	0.100	0.0010	"	0.102041	0.0046	93.6	70-130	0.595	20	

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
200.8 in Drink Wtr	Copper, total	SIA1X
	Lead, total	SIA1X

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2022
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2021
MO-KC	Missouri Department of Natural Resources	140	04/30/2022
SIA1X	Iowa Department of Natural Resources	95	02/01/2021

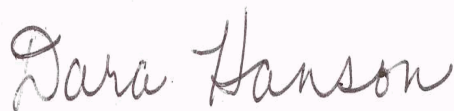
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End of Report

A handwritten signature in cursive script that reads "Dara Hanson".

Keystone Laboratories, Inc.

Dara Hanson
Project Manager I

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206 W Sherman, PO Box 370
Monroe, IA 50170

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Work Order: 1EG1203

CHAIN OF CUSTODY RECORD

Keystone
LABORATORIES, INC.

600 East 17th Street South
Newton, IA 50208
641-792-8451

SITE INFORMATION
Sampler: Marc Van Wyk
Project: Lead & Copper
PWSID#: 5054096-

SPECIAL INSTRUCTIONS
None
Turn Around Time
 Standard RUSH; need by / /

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REPORT TO
Marc VanWyk
City of Monroe
206 W Sherman, PO Box 370
Monroe, IA 50170

LAB USE ONLY
Work Order: 1EG1203
Temperature: 24.4
Turn-Cooler: No

INVOICE TO
Kim Thomas
City of Monroe
206 W Sherman, PO Box 370
Monroe, IA 50170

Custody Seal
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received on Ice

umber	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	950 / 950 / 815 N Commerce	Drink Wtr	FSD	7/13/21	8:30Am	1	pb/cu-icpms	01
01-002	950 / 950 / 711 N Commerce	Drink Wtr	FSD	7/19/21	8:30Am	1	pb/cu-icpms	03
01-003	950 / 950 / 102 W North	Drink Wtr	FSD	7/12/21	8:30Am	1	pb/cu-icpms	03
01-004	950 / 950 / 502 N Commerce	Drink Wtr	FSD	7/18/21	8:30Am	1	pb/cu-icpms	04
01-005	950 / 950 / 100 E Colfax	Drink Wtr	FSD	7/18/21	8:30Am	1	pb/cu-icpms	05
01-006	950 / 950 / 707 Commerce	Drink Wtr	FSD	7/13/21	8:30Am	1	pb/cu-icpms	06
01-007	950 / 950 / 215 W Washington	Drink Wtr	FSD	7/18/21	8:30Am	1	pb/cu-icpms	07

Relinquished By: Marc Date/Time: 7/13/2021

Received for Lab By: Monroe Date/Time: 7/10/2021

Remarks: RT Routine, SP Special, NC New Line Ex (ONLY), RL Replacement, RP-UP Repeat Up, RP-DN Repeat Down, RP-OR Repeat Original, RP-OT Repeat Other

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CHAIN OF CUSTODY RECORD

Keystone
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641-792-8451

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REPORT TO
Marc VanWyk
City of Monroe
206 W Sherman, PO Box 370
Monroe, IA 50170

INVOICE TO
Kim Thomas
City of Monroe
206 W Sherman, PO Box 370
Monroe, IA 50170

SITE INFORMATION
Sampler: Marc Van Wyk
Project: Lead & Copper
PWSID#: 5054096-

SPECIAL INSTRUCTIONS
None
Turn Around Time: Standard RUSH, need by ___/___/___

LAB USE ONLY
Work Order: 1EG1203
Temperature: 24.4
Turn-Cooler: No

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Sample Number	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-008	FSD	7/18/21	8:30AM	1	pb/cu-icpnas	08
01-009	FSD	7/18/21	8:30AM	1	pb/cu-icpnas	09
01-010	FSD	7/18/21	8:30AM	1	pb/cu-icpnas	10

Relinquished By: Marc Van Wyk Date/Time: 7/13/21
Received for Lab By: Kim Thomas Date/Time: 10:38
 Original - Lab Copy Yellow - Sampler Copy

Remarks:
 RT Routine
 RP-UP Repeat Up
 RP-DN Repeat Down
 NC New Line Ext (ONLY)
 RL Replacement

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