PWS_0190008_AC_20210813_LCR Analysis Report
LCRA Environmental Laboratory Services
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September 09, 2021

ROBERT LORANCE
PO BOX 209
REDWATER, TX 75573

RE: Final Analytical Report Q2122789

Attn: ROBERT LORANCE

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report. This final report provides results related only to the sample(s) as received for the above referenced work order.

Thank you for selecting ELS for your analytical needs. If you have any questions regarding this report, please contact us at (512) 730-6022 or environmental.lab@lcra.org. We look forward to assisting you again.

Authorized for release by:

Bhanu Acharya
Account Manager
bhanu.acharya@lcra.org

Enclosures:

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Workorder: Q2122789
Workorder Description: TX0190008LCR_08192021
Client: CITY OF REDWATER
Profile: LEAD AND COPPER PROGRAM
Sampled By: JOSEPH R SNYDER

Report To: ROBERT LORANCE
PO BOX 209
REDWATER, TX 75573

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
Q2122789001	LCR001	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 07:00	08/19/2021 08:58	2
Q2122789002	LCR002	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 09:32	08/19/2021 08:58	2
Q2122789003	LCR003	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:30	08/19/2021 08:58	2
Q2122789004	LCR004	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 05:00	08/19/2021 08:58	2
Q2122789005	LCR005	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 04:00	08/19/2021 08:58	2
Q2122789006	LCR006	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 09:24	08/19/2021 08:58	2
Q2122789007	LCR007	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:45	08/19/2021 08:58	2
Q2122789008	LCR008	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 09:00	08/19/2021 08:58	2
Q2122789009	LCR009	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 09:00	08/19/2021 08:58	2
Q2122789010	LCR010	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:00	08/19/2021 08:58	2
Q2122789011	LCR011	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:45	08/19/2021 08:58	2
Q2122789012	LCR012	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 08:20	08/19/2021 08:58	2
Q2122789013	LCR013	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:00	08/19/2021 08:58	2
Q2122789014	LCR014	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:45	08/19/2021 08:58	2
Q2122789015	LCR015	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:45	08/19/2021 08:58	2
Q2122789016	LCR016	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:30	08/19/2021 08:58	2
Q2122789017	LCR017	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 06:00	08/19/2021 08:58	2
Q2122789018	LCR018	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 07:15	08/19/2021 08:58	2
Q2122789019	LCR019	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 07:30	08/19/2021 08:58	2
Q2122789020	LCR020	DW	E200.8, ICP-MS Lead/Copper	08/13/2021 09:00	08/19/2021 08:58	2

Report Definitions

MRL - Minimum Reporting Limit
LOD - Limit of Detection
ML - Maximum Limit - Client Specified
MCL - Maximum Contaminant Level
LOQ - Limit of Quantitation - Client Specified
DF - Dilution Factor
(S) - Surrogate Spike
MDL - Method Detection Limit
RPD - Relative Percent Difference

Qualifier Definitions

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J - Analyte detected below quantitation limit
R - RPD outside duplicate precision limit
S - Spike recovery outside limit
B- Analyte detected in method blank
N - Not Accredited
M - Analyte Detected Above Maximum Contaminant Level
SL - Spike Recovery Low
SH - Spike Recovery High
H - Analyzed Past Hold Time
CR - Confirmed Result
CH - Result confirmed by historical data

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Workorder Summary

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 07:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789001	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR001	**Location:**	101 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR001		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	<0.00100	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:07	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:07	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 09:32	**Matrix:**	Drinking Water
Lab ID:	Q2122789002	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR002	**Location:**	100 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR002		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.034	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:08	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:08	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:30	**Matrix:**	Drinking Water
Lab ID:	Q2122789003	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR003	**Location:**	109 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR003		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.021	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:10	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:10	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 05:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789004	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR004	**Location:**	112 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR004		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.012	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:12	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:12	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 04:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789005	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR005	**Location:**	113 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR005		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.035	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:14	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:14	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 09:24	**Matrix:**	Drinking Water
Lab ID:	Q2122789006	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR006	**Location:**	116 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR006		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.016	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:15	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:15	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:45	**Matrix:**	Drinking Water
Lab ID:	Q2122789007	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR007	**Location:**	117 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR007		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.081	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:17	FO	
Lead Total	0.0014	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:17	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 09:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789008	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR008	**Location:**	120 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR008		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.0013	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:19	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:19	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 09:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789009	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR009	**Location:**	124 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR009		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.0022	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:31	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:31	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789010	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR010	**Location:**	129 OAK ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR010		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.0066	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:37	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:37	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:45	**Matrix:**	Drinking Water
Lab ID:	Q2122789011	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR011	**Location:**	210 SPENCER ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR011		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.010	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:39	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:39	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 08:20	**Matrix:**	Drinking Water
Lab ID:	Q2122789012	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR012	**Location:**	228 CHURCH BATHROOM SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR012		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	<0.00100	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:40	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:40	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789013	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR013	**Location:**	201 SPENCER KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR013		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.0086	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:42	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:42	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:45	**Matrix:**	Drinking Water
Lab ID:	Q2122789014	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR014	**Location:**	113 PINE ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR014		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.070	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:44	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:44	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:45	**Matrix:**	Drinking Water
Lab ID:	Q2122789015	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR015	**Location:**	212 E REDWATER BLVD KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR015		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.0024	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:46	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:46	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:30	**Matrix:**	Drinking Water
Lab ID:	Q2122789016	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR016	**Location:**	516 LONGHORN KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR016		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.029	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:48	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:48	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 06:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789017	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR017	**Location:**	302 N REDRIVER RD KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR017		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.0012	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:49	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:49	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 07:15	**Matrix:**	Drinking Water
Lab ID:	Q2122789018	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR018	**Location:**	217 JONES ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR018		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.059	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:51	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:51	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 07:30	**Matrix:**	Drinking Water
Lab ID:	Q2122789019	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR019	**Location:**	121 PINE ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR019		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.045	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 17:58	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 17:58	FO	

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Analytical Results

Client ID:	TX0190008	**Date Collected:**	08/13/2021 09:00	**Matrix:**	Drinking Water
Lab ID:	Q2122789020	**Date Received:**	08/19/2021 08:58	**Sample Type:**	SAMPLE
Sample ID:	LCR020	**Location:**	209 HICKORY ST KITCHEN SINK		
Project ID:	LEAD AND COPPER PROGRAM	**Facility:**	DS01		
		Sample Point:	LCR020		

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS Lead/Copper)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Copper Total	0.039	mg/L	0.00100	0.00100	1.30	1	08/31/2021 14:29	ME	09/07/2021 18:04	FO	
Lead Total	<0.0010	mg/L	0.0010	0.0010	0.0150	1	08/31/2021 14:29	ME	09/07/2021 18:04	FO	

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Quality Control Results

QC Batch: MET/8721 **Analysis Method:** E200.8, ICP-MS Lead/Copper
Preparation Method: E200.8, ICP-MS Lead/Copper
Associated Lab IDs: Q2122789001, Q2122789002, Q2122789003, Q2122789004, Q2122789005, Q2122789006, Q2122789007, Q2122789008, Q2122789009, Q2122789010, Q2122789011, Q2122789012, Q2122789013, Q2122789014, Q2122789015, Q2122789016, Q2122789017, Q2122789018, Q2122789019, Q2122789020

Method Reporting Limit Check (1654396)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Copper Total	mg/L	0.001	0.0011	105.0	50 - 150	
Lead Total	mg/L	0.001	0.001	101.0	50 - 150	

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Quality Control Results

QC Batch: MET/8721 **Analysis Method:** E200.8, ICP-MS Lead/Copper
Preparation Method: E200.8, ICP-MS Prep
Associated Lab IDs: Q2122789001, Q2122789002, Q2122789003, Q2122789004, Q2122789005, Q2122789006, Q2122789007, Q2122789008

Laboratory Reagent Blank(1651643)

Parameter	Units	Results	MRL	LOD	Qualifier
Copper Total	mg/L	<0.00100	0.001	0.001	
Lead Total	mg/L	<0.0010	0.001	0.001	

Laboratory Fortified Matrix (1651646); Lab Fortified Matrix Duplicate (1651647); Original: Q2122653009

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Copper Total	mg/L	0.05	0.3	86.2	70 - 130	0.31	105.0	3.28	20	
Lead Total	mg/L	0.05	0.05	100.0	70 - 130	0.053	106.0	5.83	20	

Laboratory Fortified Blank (1651641); Lab Fortified Blank Duplicate (1651642)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Copper Total	mg/L	0.05	0.051	102.0	85 - 115	0.052	103.0	1.94	20	
Lead Total	mg/L	0.05	0.051	102.0	85 - 115	0.051	102.0	0.0	20	

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Quality Control Results

QC Batch: MET/8721 **Analysis Method:** E200.8, ICP-MS Lead/Copper
Preparation Method: E200.8, ICP-MS Prep
Associated Lab IDs: Q2122789009, Q2122789010, Q2122789011, Q2122789012, Q2122789013, Q2122789014, Q2122789015, Q2122789016, Q2122789017, Q2122789018

Laboratory Fortified Matrix (1651651); Lab Fortified Matrix Duplicate (1651652); Original: Q2122789009

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Copper Total	mg/L	0.05	0.06	115.0	70 - 130	0.057	110.0	5.13	20	
Lead Total	mg/L	0.05	0.059	117.0	70 - 130	0.057	113.0	3.45	20	

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Quality Control Results

QC Batch: MET/8721 **Analysis Method:** E200.8, ICP-MS Lead/Copper
Preparation Method: E200.8, ICP-MS Prep
Associated Lab IDs: Q2122789009, Q2122789010, Q2122789011, Q2122789012, Q2122789013, Q2122789014, Q2122789015, Q2122789016, Q2122789017, Q2122789018, Q2122789019, Q2122789020

Laboratory Fortified Blank (1651648); Lab Fortified Blank Duplicate (1651649)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Copper Total	mg/L	0.05	0.051	101.0	85 - 115	0.051	101.0	0.0	20	
Lead Total	mg/L	0.05	0.051	101.0	85 - 115	0.05	99.9	1.98	20	

Laboratory Reagent Blank(1651650)

Parameter	Units	Results	MRL	LOD	Qualifier
Copper Total	mg/L	<0.00100	0.001	0.001	
Lead Total	mg/L	<0.0010	0.001	0.001	

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Quality Control Results

QC Batch: MET/8721
Preparation Method: E200.8, ICP-MS Prep
Associated Lab IDs: Q2122789019, Q2122789020
Analysis Method: E200.8, ICP-MS Lead/Copper

Laboratory Fortified Matrix (1651653); Lab Fortified Matrix Duplicate (1651654); Original: Q2122789019

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Copper Total	mg/L	0.05	0.1	113.0	70 - 130	0.1	109.0	0.0	20	
Lead Total	mg/L	0.05	0.056	113.0	70 - 130	0.054	109.0	3.64	20	

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QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
MET/8721 - E200.8, ICP-MS Lead/Copper			
Q2122789001	LCR001	MEP/11396	E200.8, ICP-MS Prep
Q2122789002	LCR002	MEP/11396	E200.8, ICP-MS Prep
Q2122789003	LCR003	MEP/11396	E200.8, ICP-MS Prep
Q2122789004	LCR004	MEP/11396	E200.8, ICP-MS Prep
Q2122789005	LCR005	MEP/11396	E200.8, ICP-MS Prep
Q2122789006	LCR006	MEP/11396	E200.8, ICP-MS Prep
Q2122789007	LCR007	MEP/11396	E200.8, ICP-MS Prep
Q2122789008	LCR008	MEP/11396	E200.8, ICP-MS Prep
Q2122789009	LCR009	MEP/11396	E200.8, ICP-MS Prep
Q2122789010	LCR010	MEP/11396	E200.8, ICP-MS Prep
Q2122789011	LCR011	MEP/11396	E200.8, ICP-MS Prep
Q2122789012	LCR012	MEP/11396	E200.8, ICP-MS Prep
Q2122789013	LCR013	MEP/11396	E200.8, ICP-MS Prep
Q2122789014	LCR014	MEP/11396	E200.8, ICP-MS Prep
Q2122789015	LCR015	MEP/11396	E200.8, ICP-MS Prep
Q2122789016	LCR016	MEP/11396	E200.8, ICP-MS Prep
Q2122789017	LCR017	MEP/11396	E200.8, ICP-MS Prep
Q2122789018	LCR018	MEP/11396	E200.8, ICP-MS Prep
Q2122789019	LCR019	MEP/11396	E200.8, ICP-MS Prep
Q2122789020	LCR020	MEP/11396	E200.8, ICP-MS Prep

End of Report