



October 26, 2020  
Diane Czarnecki  
Industrial Hygienist  
Facilities Management Division  
GSA Public Buildings Service – Heartland Region  
2300 Main Street  
Kansas City, MO 64108

Re: Goodfellow Federal Center – Bldg. #110 Drinking Water Sampling  
Project No. 121244

Dear Ms. Czarnecki:

Thank you for the opportunity to provide the General Services Administration (GSA) with the above referenced environmental sampling activities. The following is our report.

## **INTRODUCTION**

As requested, Burns & McDonnell conducted drinking water sampling and testing for the presence of lead and copper at Building #110 of the Goodfellow Federal Center located at 4300 Goodfellow Boulevard in St. Louis, Missouri. Sampling was completed in response to the ongoing environmental condition assessment at the Goodfellow Federal Center which is documented at the Goodfellow Federal Center Reading Room located at <https://www.gsa.gov/portal/content/212361>.

Drinking water sampling was conducted to determine the current levels of lead and copper in representative sources throughout the complex. Drinking water sampling at Bldg. #110 was conducted on September 25, 2020 by Emily Ahlemeyer of Burns & McDonnell and Austin O'Byrne of OCCU-TEC.

## **METHODOLOGY**

The sampling methodology used during this investigation was developed in general accordance with the United States Environmental Protection Agency's (EPA) "Quick Guide to Drinking Water Sample Collection – Second Edition" developed by the EPA Region 8 in September 2016.

Samples were collected as first draw samples in accordance with the Lead and Copper Rule (40 CFR Part 141 Subpart I). First draw samples represent 'worst case' conditions with water that has been stationary within the plumbing systems for a minimum of six hours. The samples were collected in individually labeled 1000 milliliter (mL) plastic bottles capped with Teflon septa lined screw caps. The bottles were filled to the shoulder with water from the sample source. The samples were then placed in a cooler for safe transport. Each sample was acidified at the laboratory as needed.

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Drinking water sampling for the presence of lead and copper was conducted at eleven (11) distinct locations within Building #110. A total of twelve (12) samples were obtained including duplicate samples. After each drinking water sample was collected, Burns & McDonnell filled a separate sample cup with approximately 2 inches of water. Burns & McDonnell placed an Oakton pH30 pH tester into the sample cup. After readings stabilized, Burns & McDonnell recorded the readings for pH (the acidity or basicity of an aqueous solution) and the temperature (in degrees Celsius) on site specific sample logs.

Drinking water samples were submitted to Eurofins-Eaton Analytical in South Bend, IN for analyses of lead and copper. Eurofins-Eaton Analytical is certified by the State of Missouri Department of Natural Resources (MDNR) as an approved drinking water laboratory. Eurofins-Eaton Analytical's Missouri Certification number is 880.

The drinking water samples were collected using media supplied by Eurofins-Eaton Analytical. Lead and Copper samples were collected and analyzed in accordance with EPA Method 200.8.

## RESULTS AND DISCUSSION

The results for the subject testing are summarized in the table below.

Analysis	Lowest Concentration <sup>(a)</sup>	Highest Concentration <sup>(a)</sup>	Action Level <sup>(b)</sup>
Lead	<1.0 µg/L	9.4 µg/L	15 µg/L
Copper	46 µg/L	970 µg/L	1300 µg/L

Notes:

(a) Samples with a "<" sign indicate that the results were below the reportable limit.

(b) As per EPA Lead and Copper Rule (40 CFR Part 141 Subpart I).

A summary table of all sampling results by location is included in Appendix A. The complete laboratory report for the drinking water sampling from Eurofins-Eaton Analytical is attached in Appendix B.

### Lead

All samples were below the Action Level (AL) for lead.

### Copper

All samples were below the AL for copper.

### pH

Normal pH levels for drinking water are between 6.0 to 8.5. Water with a pH < 6.5 is considered acidic, soft, and corrosive. Acidic water may contain metal ions, may cause premature damage to



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metal piping, and increases the likelihood of leaching. Water with a pH > 8.5 is considered alkaline or basic and can indicate that the water is hard. Hard water does not pose a health risk but can cause aesthetic problems. These problems include an alkali taste, the formation of scale deposits, and difficulty in getting soaps and detergents to lather.

Recorded pH levels in Building #110 ranged from 8.09 to 9.68 indicating the drinking water is slightly alkaline.

### **LIMITATIONS**

The scope of this assessment was limited in nature. Burns & McDonnell collected samples from a select number of drinking water sources in an effort to minimize cost while providing a general overview of the drinking water quality at the site. Sample locations do not encompass every drinking water source at the Site. Additionally, samples were only analyzed for a select number of potential contaminants likely to affect the drinking water quality at the site. Burns & McDonnell is not responsible for potential contaminants not identified in this report.

This report was prepared for the sole use of GSA. Reliance by any party other than GSA is expressly forbidden without Burns & McDonnell's written permission. Any parties relying on the report, with Burns & McDonnell's written permission, are bound by the terms and conditions outlined in the original proposal as if said proposal was prepared for them.

Burns & McDonnell appreciates the opportunity to work with the General Services Administration on this project. Please contact us if you have any questions regarding this report or if we may be of any additional service.

Sincerely,

Matt Shanahan, CHMM  
Project Manager

### **Attachments:**

- Appendix A - Results Summary by Location
- Appendix B - Water Sample Laboratory Report

**APPENDIX A – RESULTS SUMMARY BY LOCATION**

**Appendix A**  
**Results Summary by Location**

Goodfellow Federal Center - Building 110											
Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	MRL	Dil Factor	Above/Below	AL
110-DW-01	Warehouse, break room sink*	9.68	20.3	Sink	Copper	89	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
110-DW-02	1st floor, column G14	8.51	16.2	L DF	Copper	270	µg/L	1.0	1	Below	1300
					Lead	1.2	µg/L	1.0	1	Below	15
110-DW-03	1st floor, column H15, break room	9.29	19.6	Sink	Copper	170	µg/L	1.0	1	Below	1300
					Lead	4.1	µg/L	1.0	1	Below	15
110-DW-04	1st floor, column G11, bottle filler	8.85	18.7	DF	Copper	59	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
110-DW-05	1st floor, column F10, break room	9.20	19.8	Sink	Copper	640	µg/L	1.0	1	Below	1300
					Lead	9.4	µg/L	1.0	1	Below	15
110-DW-06	1st floor, column D8, break room	9.05	20.2	Sink	Copper	220	µg/L	1.0	1	Below	1300
					Lead	1.4	µg/L	1.0	1	Below	15
110-DW-07	2nd floor, column G11, bottle filler	8.43	18.6	DF	Copper	93	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
110-DW-08	2nd floor, column F10, break room	9.26	21.0	Sink	Copper	140	µg/L	1.0	1	Below	1300
					Lead	1.4	µg/L	1.0	1	Below	15
110-DW-09	Duplicate of 110-DW-08	9.26	21.0	Sink	Copper	130	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
110-DW-10	2nd floor, column D12, training room	9.28	21.7	Sink	Copper	74	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
110-DW-11	2nd floor, column G2	8.09	16.7	R DF	Copper	970	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
110-DW-12	1st floor, column G3	8.58	18.1	L DF	Copper	46	µg/L	1.0	1	Below	1300
					Lead	2.5	µg/L	1.0	1	Below	15

Notes:

DF - Drinking Fountain

D - Duplicate

L/R - Left or Right

MRL - Method Reporting Limit

Dil - Dilution

AL - Action Level

µg/L - micrograms per liter

\*Not first draw

**APPENDIX B – WATER SAMPLE LABORATORY REPORT**

## LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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## STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

\*NELAP/TNI Recognized Accreditation Bodies



110 South Hill Street  
 South Bend, IN 46617  
 Tel: (574) 233-4777  
 Fax: (574) 233-8207  
 1 800 332 4345

## Laboratory Report

Client: Burns & McDonnell Engineers  
 Attn: Emily Ahlemeyer  
 2604 NE Industrial Drive  
 Suite 230  
 North Kansas City, MO 64117

Report: 499522  
 Priority: Standard Written  
 Status: Final  
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4736759	110-DW-01	200.8	09/25/20 06:52	Client	09/29/20 09:15
4736760	110-DW-02	200.8	09/25/20 06:58	Client	09/29/20 09:15
4736761	110-DW-03	200.8	09/25/20 07:02	Client	09/29/20 09:15
4736762	110-DW-04	200.8	09/25/20 07:05	Client	09/29/20 09:15
4736763	110-DW-05	200.8	09/25/20 07:08	Client	09/29/20 09:15
4736764	110-DW-06	200.8	09/25/20 07:11	Client	09/29/20 09:15
4736765	110-DW-07	200.8	09/25/20 07:15	Client	09/29/20 09:15
4736766	110-DW-08	200.8	09/25/20 07:18	Client	09/29/20 09:15
4736767	110-DW-09	200.8	09/25/20 07:18	Client	09/29/20 09:15
4736768	110-DW-10	200.8	09/25/20 07:21	Client	09/29/20 09:15
4736769	110-DW-11	200.8	09/25/20 07:25	Client	09/29/20 09:15
4736770	110-DW-12	200.8	09/25/20 07:44	Client	09/29/20 09:15

### Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

*Note: This report may not be reproduced, except in full, without written approval from EEA.*

(b) (6)



10/19/2020

Authorized Signature

Title

Date

Client Name: Burns & McDonnell Engineers  
 Report #: 499522

Sampling Point: 110-DW-01

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	89	ug/L	---	10/07/20 11:56	4736759
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/07/20 11:56	4736759

Sampling Point: 110-DW-02

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	270	ug/L	---	10/07/20 11:59	4736760
7439-92-1	Lead	200.8	15 !	1.0	1.2	ug/L	---	10/07/20 11:59	4736760

Sampling Point: 110-DW-03

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	170	ug/L	---	10/07/20 12:01	4736761
7439-92-1	Lead	200.8	15 !	1.0	4.1	ug/L	---	10/07/20 12:01	4736761

Sampling Point: 110-DW-04

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	59	ug/L	---	10/07/20 12:03	4736762
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/07/20 12:03	4736762

Sampling Point: 110-DW-05

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	640	ug/L	---	10/07/20 12:10	4736763
7439-92-1	Lead	200.8	15 !	1.0	9.4	ug/L	---	10/07/20 12:10	4736763

Sampling Point: 110-DW-06

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	220	ug/L	---	10/07/20 12:12	4736764
7439-92-1	Lead	200.8	15 !	1.0	1.4	ug/L	---	10/07/20 12:12	4736764

Sampling Point: 110-DW-07

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	93	ug/L	---	10/07/20 12:19	4736765
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/07/20 12:19	4736765

Sampling Point: 110-DW-08

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	140	ug/L	---	10/07/20 12:22	4736766
7439-92-1	Lead	200.8	15 !	1.0	1.4	ug/L	---	10/07/20 12:22	4736766

Sampling Point: 110-DW-09

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	130	ug/L	---	10/07/20 12:24	4736767
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/07/20 12:24	4736767

Sampling Point: 110-DW-10

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	74	ug/L	---	10/07/20 12:26	4736768
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/07/20 12:26	4736768

Sampling Point: 110-DW-11

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	<b>970</b>	ug/L	---	10/07/20 12:29	4736769
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/07/20 12:29	4736769

Sampling Point: 110-DW-12

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	<b>46</b>	ug/L	---	10/07/20 12:31	4736770
7439-92-1	Lead	200.8	15 !	1.0	<b>2.5</b>	ug/L	---	10/07/20 12:31	4736770

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

<b>Reg Limit Type:</b>	MCL	SMCL	AL
<b>Symbol:</b>	*	^	!

## Lab Definitions

**Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC)** - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD)** - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

**Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS)** - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

**Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

**Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB)** - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows:  $(MS \text{ or } MSD \text{ value} - \text{Sample value}) * 100 / \text{spike target} / \text{dilution factor} = \text{Recovery } \%$

**Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD)** - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

**Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM)** - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

**Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV)** - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

**Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS)** - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS) / Surrogate Analyte (SUR)** - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical

110 S. Hill Street  
South Bend, IN 46617  
T: 1.800.332.4345  
F: 1.574.233.8207

Order # 406972  
Batch # 499522

www.eurofinsus.com/Eaton

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO: msn@burnsmud.com SAMPLER (Signature)

9400 Ward Parkway  
Kansas City, MO 64114

BILL TO:

same

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LAB Number	COLLECTION		COMPLIANCE MONITORING	SAMPLING SITE	TEST NAME	STATE (sample origin)	PROJECT NAME	PO#		TURNAROUND TIME
	DATE	TIME						CHLORINATED	MATRIX CODE	
1	4736759	9/25/20	0622	X	110-DW-01	N/A	GFC	121244	1	DW SW
2	7100		0658	X	110-DW-02	MO			1	
3	7101		0702	X	110-DW-03	Municipal			1	
4	7102		0705	X	110-DW-04				1	
5	7103		0708	X	110-DW-05				1	
6	7104		0711	X	110-DW-06				1	
7	7105		0715	X	110-DW-07				1	
8	7106		0718	X	110-DW-08				1	
9	7107		0718	X	110-DW-09				1	
10	7108		0721	X	110-DW-10				1	
11	7109		0725	X	110-DW-11				1	
12	7109		0744	X	110-DW-12				1	
13										
14										

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
	9/25/20	1000 AM				

RELINQUISHED BY: (Signature) \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RECEIVED BY: (Signature) \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RECEIVED FOR LABORATORY BY:

CONDITIONS UPON RECEIPT (check one):  
 Local  WestBlue  Ambient

\*c Upon Receipt \_\_\_\_\_ N/A

**MATRIX CODES:**  
 DW DRINKING WATER RW-REAGENT WATER GW-  
 GROUND WATER EW-EXPOSURE WATER SW-  
 SURFACE WATER PW-POOL WATER  
 WW-WASTE WATER

TURN-AROUND TIME (TAT) - SUPCHARGES  
 SW = Standard Written. (15 working days) 0% RW\* = Rush Verbal. (5 working days)  
 50% RW\* = Rush Written. (5 working days) 75%  
 \*Please call, expedited service not available for all testing

IV\* = Immediate Verbal. (3 working days) IW\* = 100%  
 -Immediate Written. (3 working days) SP\* = 125%  
 Weekend, Holiday CALL  
 STAT\* = Less than 48 hours

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.  
 06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15