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# Laboratory Analysis Report

Total Number of Pages: 8

Job ID : 19110130



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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**Client Project Name :**  
**PWS ID #TX2200012 / City of Fort Worth**

<b>Report To :</b>	Client Name:	City of Fort Worth - Water Dept.	P.O.#.: 18-00102306
	Attn:	David Nelson	Sample Collected By: Ron Middleton
	Client Address:	2600 SE Loop 820	Date Collected: 10/31/19
	City, State, Zip:	Fort Worth, Texas, 76140	

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**A&B Labs has analyzed the following samples...**

Client Sample ID	Matrix	A&B Sample ID
PBCU003 / EWQP / South Holly Tap	Drinking Water	19110130.01

A handwritten signature in black ink, appearing to read 'S. C. LK'.

Released By: Senthilkumar Sevukan  
Title: Assistant Lab Manager  
Date: 11/07/2019



This Laboratory is NELAP ( T104704213-19-21) accredited. Effective: 08/26/2019; Expires: 3/31/2020

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

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Date Received : 11/02/2019 12:37

# LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 19110130

Date: 11/7/2019

## General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL		

## Qualifier Definition

M6	Not calculated. Sample concentration high, more than 4X spike concentration. Control limits do not apply.
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**LABORATORY TEST RESULTS**

Job ID : 19110130

Date 11/7/2019

Client Name: City of Fort Worth - Water Dept.

Attn: David Nelson

Project Name: PWS ID #TX2200012 / City of Fort Worth

Client Sample ID: PBCU003 / EWQP / South Holly Tap

Job Sample ID: 19110130.01

Date Collected: 10/31/19

Sample Matrix Drinking Water

Time Collected: 09:44

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7									
	Iron	0.021	mg/L	1	0.01	0.3		11/06/19 17:12	BRR
	Sodium	25.0	mg/L	100	10			11/06/19 17:35	BRR

# QUALITY CONTROL CERTIFICATE



**Job ID :** 19110130

**Date :** 11/7/2019

**Analysis :** **Method :** EPA 200.7 **Reporting Units :** mg/L

**QC Batch ID :** Qb19110664 **Created Date :** 11/06/19 **Created By :** BRena

**Samples in This QC Batch :** 19110130.01

**Digestion :** PB19110618 **Prep Method :** EPA 200.7 **Prep Date :** 11/06/19 08:00 **Prep By :** Mwisman

## QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Iron	7439-89-6	BRL	mg/L	1	0.01	
Sodium	7440-23-5	BRL	mg/L	1	0.1	

## QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Iron	1	1.014	101	1	1.018	102	0.4	20	85-115	
Sodium	1	1.026	103	1	1.025	103	0.1	20	85-115	

## QC Type: MS and MSD

**QC Sample ID:** 19110130.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Iron	0.021	1	1.036	101						75-125	
Sodium	24.7	1	N/A	N/A						75-125	M6



<b>A&amp;B Labs</b> Houston, Texas  		<b>REPORT TO:</b> Co: City of Fort Worth - Water Dept 2600 SE Loop 820 Fort Worth, Texas 76140 Contact: David Nelson Phone: 817.392.5912 Email: David.Nelson@fortworthtexas.gov		<b>INVOICE TO:</b> Company: Same Address: 2600 SE Loop 820 Fort Worth, Texas 76140 Contact: Mike Hoffman Phone: 817.392.5900 Fax: 817.392.5920 Email: Patty.Stanley@fortworthtexas.gov		<b>3. PO # 18-00102306</b> <b>4. Turnaround Time- Business Days</b> 1 Day * 2 Days * 3 Days * * Surcharge Applies Day Zero is the day sample is received. Report due at 5pm on due day.	
<b>A&amp;B JOB ID</b> <div style="font-size: 2em; font-weight: bold; text-align: center;">19110130</div>		<b>5. Project #</b> CC: Michael.Hoffman@fortworthtexas.gov		<b>6. Project Name / Location:</b> City of Fort Worth WQP Plants		<b>7. Reporting Requirement</b> Standard Level II	
<b>8. Sampler's Name &amp; Company</b> Standard Level II Sampler's Signature & Date		<b>13. TOTAL No. of Containers</b> 1 P/O HNO3 EPA 200.7.4.4 (*Fe, *Na)		<b>No. of Containers</b> 14. Containers** 15. Preservatives**		<b>18. Comments</b>	

  

9. Sample ID & Description	Lab Use Only	10. Sampling		11. Matrix		12. Matrix		19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
		Date	Time	Comp	grab	Water	Soil						
8011201 South Holly Tap	OIA	10/31/2019	09:44am		x	x						11/01/19	10:58
												11/01/19	11:45a
												11.2.19	1237

  

1) <i>M. Nelson</i> 2) <i>M. Nelson</i> 3) <i>Shantrell Carpenters</i>	1) <i>M. Nelson</i> 2) <i>FedEx</i> 3) <i>Shantrell Carpenters</i>	**Preservatives: C-Cool H-HCl S-H2SO4 OH- NaOH T-Na2S2O3 X- METHOD OF SHIPMENT AIG- Amber/Glass 1 Liter P/O- Plastic/Other * Containers: VOA- 40 ml vial 4 oz/8 oz- glass wide mouth
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<b>BILL OF LADING/TRACKING #</b> 1707029	Temperature: 58 °C Intact? <input checked="" type="checkbox"/> Initials: N
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A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER. Samples will be disposed of after 30 days. A&B reserves the right to return samples.



## Sample Condition Checklist

A&B JobID : <b>19110130</b>	Date Received : <b>11/02/2019</b>	Time Received : <b>12:37PM</b>
Client Name : <b>City of Fort Worth - Water Dept.</b>		
Temperature : <b>5.8°C</b>	Sample pH : <b>7</b>	
Thermometer ID : <b>1707629</b>	pH Paper ID : <b>72375</b>	

  

	Check Points	Yes	No	N/A																								
1.	Cooler seal present and signed.		X																									
2.	Sample(s) in a cooler.	X																										
3.	If yes, ice in cooler.	X																										
4.	Sample(s) received with chain-of-custody.	X																										
5.	C-O-C signed and dated.	X																										
6.	Sample(s) received with signed sample custody seal.		X																									
7.	Sample containers arrived intact. (If no comment).	X																										
8.	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
9.	Sample(s) were received in appropriate container(s).	X																										
10.	Sample(s) were received with proper preservative		X																									
11.	All samples were logged or labeled.	X																										
12.	Sample ID labels match C-O-C ID's	X																										
13.	Bottle count on C-O-C matches bottles found.	X																										
14.	Sample volume is sufficient for analyses requested.	X																										
15.	Samples were received within the hold time.	X																										
16.	VOA vials completely filled.			X																								
17.	Sample accepted.	X																										
18.	Has client been contacted about sub-out			X																								

**Comments : Include actions taken to resolve discrepancies/problem:**  
 Preserved with 5mL HNO3 LT#83488(11-4-19 @ 12:37); pH <2. -ANA 11-4-19.

Received by : AArnett

Check in by/date : AArnett / 11/04/2019