TCEQ

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)

PWS Name:	CITY OF TOM BEAN	**Laboratory Name:**	LCRA ENVIRONMENTAL LABORATORY SERVICES
PWS ID#:	TX 0910008	**TCEQ Lab ID #:**	T104704218
PWS Address:	PO BOX 659, TOM BEAN, TX 75489-0659	**Laboratory Address:**	
PWS Contact:	STEVEN DANE		
PWS Contact Phone #:	903-546-6321	**Laboratory Contact:**	

Inhibitor or Stabilizer Used (√): ✓ Phosphate ☐ Silica ☐ Calcium carbonate

TREATMENT — **Alkalinity Dosage Rate:** — **Inhibitor Dosage Rate:** — **Laboratory Contact Phone #:**

Sample Information

Sample Type (√): ✓ Compliance ☐ Non-compliance

Sample Collector (√): ☐ Public Water System ☐ Accredited Lab ✓ 3rd Party Contractor --> LAB ID AL 0002811

Temperature and pH (Y or N): Y Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ? Y Were temperature and pH measured in the field within 15 minutes of sample collection?

Parameters Requested: Analyses are required for the parameters checked. * If inhibitors containing phosphate or silica are used, then these parameters should also be analyzed depending on which is in use.

Facility ID (e.g. DS01, PBCU001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection: Date (MMDDYY)	Sample Collection: Time - 24 hr (HHMM)	Field Measurements: pH	Field Measurements: Temp (°C)	Replacement? (√)	Original Sample ID #	Original Sample Date (MMDDYY)	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)	O-Phosphate (1044)*	Silica (1049)*
DS01	DSTWQP	7860 W HWY 11, TOM BEAN	12/13/21	10:18 CW	7.9	16				Q2135154-001	√	√	√	√	√	√	√	√	√	√		
DS01	DSTWQP	410 E BALL ST, TOM BEAN	12/13/21	09:53	7.9	17				-002	√	√	√	√	√	√	√	√	√	√		
PBCU001	EWQP	110 S BRITTON ST, TOM BEAN	12/13/21	09:29	7.9	15				-003	√	√	√	√	√	√	√	√	√	√		
PBCU002	EWQP	WHITEMOUND RD / FM 902, TOM BEAN	12/13/21	10:10	7.9	16				-004	√	√	√	√	√	√	√	√	√	√		
PBCU003	EWQP	303 E ELLIOT ST, TOM BEAN	12/13/21	09:41	8.0	18				-005	√	√	√	√	√	√	√	√	√	√		
											√	√	√	√	√	√	√	√	√	√		

I acknowledge that information on this form is true and correct and sites selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)

Name of Authorized PWS Representative (Print)	Signature	Organization	Date
Daniel Bomsburger	DBB	City of Tom Bean	12-13-21

Sample Conditions Upon Receipt (√)

✓ Samples received unpreserved? ✓ Iced ☐ Ambient

Rejection Code (if applicable): — Actual / Corrected sample temperature: 1.0/1.1°C

Date & Time of Sample Preservation (Acidified): 12/14/2021 12:45 — Thermometer ID #: 109 CF=+0.1°C

Chain of Custody

Relinquished By (Signature)	Date/Time: 16:25 12/13/21	Relinquished By Courier (Signature)	Date/Time:
Received By Courier (Signature)	Date/Time:	**Received By Lab (Signature)** Sana Rashid	Date/Time: 12/14/2021 11:45

Laboratory Comments:

TCEQ 20679 (Rev 01/2018)

fedex: 7754 7874 8536

Q2135154
528928

PWS_0910008_AC_20211213_WQP Analysis Report
LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

December 22, 2021

ANGEL MEDRANO
CURRO LLC
3323 SSW LOOP 323
TYLER, TX 75701
[redacted]

RE: Final Analytical Report Q2135154

Attn: ANGEL MEDRANO

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:

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

Workorder: Q2135154
Workorder Description: TX0910008WQP_12142021
Client: CITY OF TOM BEAN
Profile: Water Quality Parameters
Sampled By: DANIEL BOMSBURGER

Report To: ANGEL MEDRANO
CURRO LLC
3323 SSW LOOP 323
TYLER, TX 75701

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
Q2135154001	DS01	DW	E200.7 Metals, Trace Elements	12/13/2021 10:18	12/14/2021 11:45	5
Q2135154001	DS01	DW	E300.0, Anions	12/13/2021 10:18	12/14/2021 11:45	3
Q2135154001	DS01	DW	SM2320B, Alkalinity	12/13/2021 10:18	12/14/2021 11:45	1
Q2135154001	DS01	DW	SM2340B, Hardness Calc.	12/13/2021 10:18	12/14/2021 11:45	1
Q2135154001	DS01	DW	SM2510B, Conductivity @ 25°C	12/13/2021 10:18	12/14/2021 11:45	1
Q2135154001	DS01	DW	SM2540C, TDS	12/13/2021 10:18	12/14/2021 11:45	1
Q2135154002	DS01	DW	E200.7 Metals, Trace Elements	12/13/2021 09:53	12/14/2021 11:45	5
Q2135154002	DS01	DW	E300.0, Anions	12/13/2021 09:53	12/14/2021 11:45	3
Q2135154002	DS01	DW	SM2320B, Alkalinity	12/13/2021 09:53	12/14/2021 11:45	1
Q2135154002	DS01	DW	SM2340B, Hardness Calc.	12/13/2021 09:53	12/14/2021 11:45	1
Q2135154002	DS01	DW	SM2510B, Conductivity @ 25°C	12/13/2021 09:53	12/14/2021 11:45	1
Q2135154002	DS01	DW	SM2540C, TDS	12/13/2021 09:53	12/14/2021 11:45	1
Q2135154003	PBCU001	DW	E200.7 Metals, Trace Elements	12/13/2021 09:29	12/14/2021 11:45	5
Q2135154003	PBCU001	DW	E300.0, Anions	12/13/2021 09:29	12/14/2021 11:45	3
Q2135154003	PBCU001	DW	SM2320B, Alkalinity	12/13/2021 09:29	12/14/2021 11:45	1
Q2135154003	PBCU001	DW	SM2340B, Hardness Calc.	12/13/2021 09:29	12/14/2021 11:45	1
Q2135154003	PBCU001	DW	SM2510B, Conductivity @ 25°C	12/13/2021 09:29	12/14/2021 11:45	1
Q2135154003	PBCU001	DW	SM2540C, TDS	12/13/2021 09:29	12/14/2021 11:45	1
Q2135154004	PBCU002	DW	E200.7 Metals, Trace Elements	12/13/2021 10:10	12/14/2021 11:45	5
Q2135154004	PBCU002	DW	E300.0, Anions	12/13/2021 10:10	12/14/2021 11:45	3
Q2135154004	PBCU002	DW	SM2320B, Alkalinity	12/13/2021 10:10	12/14/2021 11:45	1
Q2135154004	PBCU002	DW	SM2340B, Hardness Calc.	12/13/2021 10:10	12/14/2021 11:45	1
Q2135154004	PBCU002	DW	SM2510B, Conductivity @ 25°C	12/13/2021 10:10	12/14/2021 11:45	1
Q2135154004	PBCU002	DW	SM2540C, TDS	12/13/2021 10:10	12/14/2021 11:45	1
Q2135154005	PBCU003	DW	E200.7 Metals, Trace Elements	12/13/2021 09:41	12/14/2021 11:45	5
Q2135154005	PBCU003	DW	E300.0, Anions	12/13/2021 09:41	12/14/2021 11:45	3
Q2135154005	PBCU003	DW	SM2320B, Alkalinity	12/13/2021 09:41	12/14/2021 11:45	1
Q2135154005	PBCU003	DW	SM2340B, Hardness Calc.	12/13/2021 09:41	12/14/2021 11:45	1
Q2135154005	PBCU003	DW	SM2510B, Conductivity @ 25°C	12/13/2021 09:41	12/14/2021 11:45	1
Q2135154005	PBCU003	DW	SM2540C, TDS	12/13/2021 09:41	12/14/2021 11:45	1

Report Definitions

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

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

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

LCRA Environmental Laboratory Services
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Workorder Summary

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

Analytical Results

Client ID: TX0910008
Lab ID: Q2135154001
Sample ID: DS01
Project ID: Water Quality Parameters
Date Collected: 12/13/2021 10:18
Date Received: 12/14/2021 11:45
Location: 7860 W HWY 11 TOM BEAN
Facility: DS01
Sample Point: DSTWQP
Matrix: Drinking Water
Sample Type: SAMPLE

ALKALINITY (SM2320B, Alkalinity)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Alkalinity (CaCO3)	309	mg/L	20.0	20.0		1	12/16/2021 00:00	ME	12/16/2021 00:00	ME	N

Conductance @ 25°C (SM2510B, Conductivity @ 25°C)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Specific Conductance	892	umho/cm	10.0	10.0		1	12/20/2021 10:17	ME	12/20/2021 10:17	ME	

INORGANICS (E200.7 Prep/E200.7 Metals, Trace Elements)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Manganese Total	<0.0100	mg/L	0.0100	0.00400		1	12/17/2021 13:47	ME	12/20/2021 20:16	FO	
Calcium Total	0.378	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:16	FO	N
Magnesium Total	<0.200	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:16	FO	
Iron Total	0.0583	mg/L	0.0500	0.0200		1	12/17/2021 13:47	ME	12/20/2021 20:16	FO	
Sodium Total	191	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:16	FO	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
ortho-Phosphate (as P)	0.970	mg/L	0.0100	0.00500		1	12/15/2021 08:20	ML	12/15/2021 08:20	ML	N

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Sulfate	105	mg/L	5.00	2.50		5	12/15/2021 16:53	ML	12/15/2021 16:53	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloride	28.9	mg/L	1.00	0.500		1	12/15/2021 08:20	ML	12/15/2021 08:20	ML	

INORGANICS (SM2340B, Hardness Calc.)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Hardness (as CaCO3)	0.944	mg/L				1	12/21/2021 15:45	CW	12/21/2021 15:45	CW	N

TOTAL DISSOLVED SOLIDS (SM2540C, TDS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Dissolved Solids(TDS)	515	mg/L	25.0	10.0		10	12/16/2021 13:52	ERR	12/16/2021 13:52	ERR	

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Analytical Results

Client ID:	TX0910008	**Date Collected:**	12/13/2021 09:53	**Matrix:**	Drinking Water
Lab ID:	Q2135154002	**Date Received:**	12/14/2021 11:45	**Sample Type:**	SAMPLE
Sample ID:	DS01	**Location:**	410 E BALL ST TOM BEAN		
Project ID:	Water Quality Parameters	**Facility:**	DS01		
		Sample Point:	DSTWQP		

ALKALINITY (SM2320B, Alkalinity)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Alkalinity (CaCO3)	332	mg/L	20.0	20.0		1	12/16/2021 00:00	ME	12/16/2021 00:00	ME	N

Conductance @ 25°C (SM2510B, Conductivity @ 25°C)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Specific Conductance	1050	umho/cm	10.0	10.0		1	12/20/2021 10:23	ME	12/20/2021 10:23	ME	

INORGANICS (E200.7 Prep/E200.7 Metals, Trace Elements)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Manganese Total	<0.0100	mg/L	0.0100	0.00400		1	12/17/2021 13:47	ME	12/20/2021 20:22	FO	
Calcium Total	0.681	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:22	FO	N
Magnesium Total	<0.200	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:22	FO	
Iron Total	0.0722	mg/L	0.0500	0.0200		1	12/17/2021 13:47	ME	12/20/2021 20:22	FO	
Sodium Total	223	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:22	FO	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Sulfate	152	mg/L	5.00	2.50		5	12/15/2021 16:16	ML	12/15/2021 16:16	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloride	39.8	mg/L	1.00	0.500		1	12/15/2021 07:44	ML	12/15/2021 07:44	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
ortho-Phosphate (as P)	0.940	mg/L	0.0100	0.00500		1	12/15/2021 07:44	ML	12/15/2021 07:44	ML	N

INORGANICS (SM2340B, Hardness Calc.)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Hardness (as CaCO3)	1.70	mg/L				1	12/21/2021 15:45	CW	12/21/2021 15:45	CW	N

TOTAL DISSOLVED SOLIDS (SM2540C, TDS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Dissolved Solids(TDS)	634	mg/L	25.0	10.0		10	12/16/2021 13:52	ERR	12/16/2021 13:52	ERR	

Environmental Laboratory Services
The Solution Lab

PWS_0910008_AC_20211213_WQP Analysis Report
LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

Analytical Results

Client ID:	TX0910008	**Date Collected:**	12/13/2021 09:29	**Matrix:**	Drinking Water
Lab ID:	Q2135154003	**Date Received:**	12/14/2021 11:45	**Sample Type:**	SAMPLE
Sample ID:	PBCU001	**Location:**	110 S BRITTON ST TOM BEAN		
Project ID:	Water Quality Parameters	**Facility:**	PBCU001		
		Sample Point:	EWQP		

ALKALINITY (SM2320B, Alkalinity)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Alkalinity (CaCO3)	341	mg/L	20.0	20.0		1	12/16/2021 00:00	ME	12/16/2021 00:00	ME	N

Conductance @ 25°C (SM2510B, Conductivity @ 25°C)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Specific Conductance	1050	umho/cm	10.0	10.0		1	12/20/2021 10:24	ME	12/20/2021 10:24	ME	

INORGANICS (E200.7 Prep/E200.7 Metals, Trace Elements)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Manganese Total	<0.0100	mg/L	0.0100	0.00400		1	12/16/2021 17:41	ERR	12/20/2021 17:55	FO	
Calcium Total	0.542	mg/L	0.200	0.0700		1	12/16/2021 17:41	ERR	12/20/2021 17:55	FO	N
Magnesium Total	0.202	mg/L	0.200	0.0700		1	12/16/2021 17:41	ERR	12/20/2021 17:55	FO	
Iron Total	0.0958	mg/L	0.0500	0.0200		1	12/16/2021 17:41	ERR	12/20/2021 17:55	FO	
Sodium Total	228	mg/L	0.200	0.0700		1	12/16/2021 17:41	ERR	12/20/2021 17:55	FO	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloride	40.4	mg/L	1.00	0.500		1	12/15/2021 07:07	ML	12/15/2021 07:07	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Sulfate	149	mg/L	5.00	2.50		5	12/15/2021 15:40	ML	12/15/2021 15:40	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
ortho-Phosphate (as P)	0.920	mg/L	0.0100	0.00500		1	12/15/2021 07:07	ML	12/15/2021 07:07	ML	N

INORGANICS (SM2340B, Hardness Calc.)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Hardness (as CaCO3)	2.18	mg/L				1	12/21/2021 15:44	CW	12/21/2021 15:44	CW	N

TOTAL DISSOLVED SOLIDS (SM2540C, TDS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Dissolved Solids(TDS)	612	mg/L	25.0	10.0		10	12/16/2021 13:52	ERR	12/16/2021 13:52	ERR	

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

Analytical Results

Client ID:	TX0910008	**Date Collected:**	12/13/2021 10:10	**Matrix:**	Drinking Water
Lab ID:	Q2135154004	**Date Received:**	12/14/2021 11:45	**Sample Type:**	SAMPLE
Sample ID:	PBCU002	**Location:**	WHITEMOUND RD FM 902 TOM BEAN		
Project ID:	Water Quality Parameters	**Facility:**	PBCU002		
		Sample Point:	EWQP		

ALKALINITY (SM2320B, Alkalinity)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Alkalinity (CaCO3)	310	mg/L	20.0	20.0		1	12/16/2021 00:00	ME	12/16/2021 00:00	ME	N

Conductance @ 25°C (SM2510B, Conductivity @ 25°C)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Specific Conductance	890	umho/cm	10.0	10.0		1	12/20/2021 10:26	ME	12/20/2021 10:26	ME	

INORGANICS (E200.7 Prep/E200.7 Metals, Trace Elements)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Manganese Total	<0.0100	mg/L	0.0100	0.00400		1	12/17/2021 13:47	ME	12/20/2021 20:52	FO	
Calcium Total	0.370	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:52	FO	N
Magnesium Total	<0.200	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:52	FO	
Iron Total	0.0772	mg/L	0.0500	0.0200		1	12/17/2021 13:47	ME	12/20/2021 20:52	FO	
Sodium Total	185	mg/L	0.200	0.0700		1	12/17/2021 13:47	ME	12/20/2021 20:52	FO	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
ortho-Phosphate (as P)	1.10	mg/L	0.0100	0.00500		1	12/15/2021 08:02	ML	12/15/2021 08:02	ML	N

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloride	28.9	mg/L	1.00	0.500		1	12/15/2021 08:02	ML	12/15/2021 08:02	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Sulfate	107	mg/L	5.00	2.50		5	12/15/2021 16:34	ML	12/15/2021 16:34	ML	

INORGANICS (SM2340B, Hardness Calc.)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Hardness (as CaCO3)	0.924	mg/L				1	12/21/2021 15:45	CW	12/21/2021 15:45	CW	N

TOTAL DISSOLVED SOLIDS (SM2540C, TDS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Dissolved Solids(TDS)	496	mg/L	25.0	10.0		10	12/16/2021 13:52	ERR	12/16/2021 13:52	ERR	

LCRA Environmental Laboratory Services
3505 Montopolis Drive
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Analytical Results

Client ID:	TX0910008	**Date Collected:**	12/13/2021 09:41	**Matrix:**	Drinking Water
Lab ID:	Q2135154005	**Date Received:**	12/14/2021 11:45	**Sample Type:**	SAMPLE
Sample ID:	PBCU003	**Location:**	303 E ELLIOT ST TOM BEAN		
Project ID:	Water Quality Parameters	**Facility:**	PBCU003		
		Sample Point:	EWQP		

ALKALINITY (SM2320B, Alkalinity)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Alkalinity (CaCO3)	332	mg/L	20.0	20.0		1	12/16/2021 00:00	ME	12/16/2021 00:00	ME	N

Conductance @ 25°C (SM2510B, Conductivity @ 25°C)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Specific Conductance	1060	umho/cm	10.0	10.0		1	12/20/2021 10:28	ME	12/20/2021 10:28	ME	

INORGANICS (E200.7 Prep/E200.7 Metals, Trace Elements)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Manganese Total	<0.0100	mg/L	0.0100	0.00400		1	12/16/2021 17:41	ERR	12/20/2021 18:11	FO	
Calcium Total	0.517	mg/L	0.200	0.0700		1	12/16/2021 17:41	ERR	12/20/2021 18:11	FO	N
Magnesium Total	0.237	mg/L	0.200	0.0700		1	12/16/2021 17:41	ERR	12/20/2021 18:11	FO	
Iron Total	0.0697	mg/L	0.0500	0.0200		1	12/16/2021 17:41	ERR	12/20/2021 18:11	FO	
Sodium Total	231	mg/L	0.200	0.0700		1	12/16/2021 17:41	ERR	12/20/2021 18:11	FO	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Sulfate	151	mg/L	5.00	2.50		5	12/15/2021 15:58	ML	12/15/2021 15:58	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloride	39.9	mg/L	1.00	0.500		1	12/15/2021 07:26	ML	12/15/2021 07:26	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
ortho-Phosphate (as P)	0.830	mg/L	0.0100	0.00500		1	12/15/2021 07:26	ML	12/15/2021 07:26	ML	N

INORGANICS (SM2340B, Hardness Calc.)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Hardness (as CaCO3)	2.27	mg/L				1	12/21/2021 15:44	CW	12/21/2021 15:44	CW	N

TOTAL DISSOLVED SOLIDS (SM2540C, TDS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Dissolved Solids(TDS)	600	mg/L	25.0	10.0		10	12/17/2021 12:34	ERR	12/17/2021 12:34	ERR	

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Quality Control Results

QC Batch: MET/8910 **Analysis Method:** E200.7 Metals, Trace Elements
Preparation Method: E200.7 Metals, Trace Elements
Associated Lab IDs: Q2135154001, Q2135154002, Q2135154003, Q2135154004, Q2135154005

Method Reporting Limit Check (1697559)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Calcium Total	mg/L	0.2	0.225	112.0	50 - 150	
Magnesium Total	mg/L	0.2	0.203	101.0	50 - 150	
Sodium Total	mg/L	0.2	0.205	103.0	50 - 150	

Method Reporting Limit Check (1697560)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Iron Total	mg/L	0.05	0.0545	109.0	50 - 150	

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Quality Control Results

QC Batch: MET/8910
Preparation Method: E200.7 Prep
Associated Lab IDs: Q2135154001, Q2135154002
Analysis Method: E200.7 Metals, Trace Elements

Laboratory Fortified Matrix (1697027); Lab Fortified Matrix Duplicate (1697028); Original: Q2134916001

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Calcium Total	mg/L	10.0	10.6	98.8	70 - 130	10.4	97.1	1.9	20	
Iron Total	mg/L	1.0	1.13	101.0	70 - 130	1.12	100.0	0.889	20	
Magnesium Total	mg/L	10.0	10.3	103.0	70 - 130	10.2	102.0	0.98	20	
Manganese Total	mg/L	1.0	1.05	105.0	70 - 130	1.05	105.0	0.0	20	
Sodium Total	mg/L	10.0	194.0	188.0	70 - 130	191.0	161.0	1.56	20	SH

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Quality Control Results

QC Batch: MET/8910
Preparation Method: E200.7 Prep
Associated Lab IDs: Q2135154001, Q2135154002, Q2135154004
Analysis Method: E200.7 Metals, Trace Elements

Laboratory Fortified Blank (1697024); Lab Fortified Blank Duplicate (1697025)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Calcium Total	mg/L	10.0	9.43	94.3	85 - 115	9.63	96.3	2.1	20	
Iron Total	mg/L	1.0	1.06	106.0	85 - 115	1.09	109.0	2.79	20	
Magnesium Total	mg/L	10.0	10.0	100.0	85 - 115	10.1	101.0	1.0	20	
Manganese Total	mg/L	1.0	1.05	105.0	85 - 115	1.08	108.0	2.8	20	
Sodium Total	mg/L	10.0	10.0	100.0	85 - 115	9.89	98.9	1.11	20	

Laboratory Reagent Blank(1697026)

Parameter	Units	Results	MRL	LOD	Qualifier
Calcium Total	mg/L	<0.200	0.2	0.07	
Iron Total	mg/L	<0.0500	0.05	0.02	
Magnesium Total	mg/L	<0.200	0.2	0.07	
Manganese Total	mg/L	<0.0100	0.01	0.004	
Sodium Total	mg/L	<0.200	0.2	0.07	

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Quality Control Results

QC Batch: MET/8910
Preparation Method: E200.7 Prep
Associated Lab IDs: Q2135154003, Q2135154005
Analysis Method: E200.7 Metals, Trace Elements

Laboratory Reagent Blank(1696431)

Parameter	Units	Results	MRL	LOD	Qualifier
Calcium Total	mg/L	<0.200	0.2	0.07	
Iron Total	mg/L	<0.0500	0.05	0.02	
Magnesium Total	mg/L	<0.200	0.2	0.07	
Manganese Total	mg/L	<0.0100	0.01	0.004	
Sodium Total	mg/L	<0.200	0.2	0.07	

Laboratory Fortified Blank (1696432); Lab Fortified Blank Duplicate (1696433)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Calcium Total	mg/L	10.0	9.67	96.7	85 - 115	9.56	95.6	1.1	20	
Iron Total	mg/L	1.0	1.02	102.0	85 - 115	1.02	102.0	0.0	20	
Magnesium Total	mg/L	10.0	10.0	100.0	85 - 115	9.99	99.9	0.1	20	
Manganese Total	mg/L	1.0	1.0	100.0	85 - 115	1.0	100.0	0.0	20	
Sodium Total	mg/L	10.0	9.5	95.0	85 - 115	9.41	94.1	0.952	20	

Laboratory Fortified Matrix (1696436); Lab Fortified Matrix Duplicate (1696437); Original: Q2135154003

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Calcium Total	mg/L	10.0	9.86	93.2	70 - 130	9.94	94.0	0.81	20	
Iron Total	mg/L	1.0	1.04	94.8	70 - 130	1.06	96.2	1.9	20	
Magnesium Total	mg/L	10.0	10.2	100.0	70 - 130	10.4	102.0	1.9	20	
Manganese Total	mg/L	1.0	0.944	94.4	70 - 130	0.958	95.8	1.5	20	
Sodium Total	mg/L	10.0	247.0	193.0	70 - 130	250.0	222.0	1.21	20	SH

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Quality Control Results

QC Batch: MET/8910
Preparation Method: E200.7 Prep
Associated Lab IDs: Q2135154004
Analysis Method: E200.7 Metals, Trace Elements

Laboratory Fortified Matrix (1697029); Lab Fortified Matrix Duplicate (1697030); Original: Q2135216003

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Calcium Total	mg/L	10.0	11.5	115.0	70 - 130	11.3	113.0	1.8	20	
Iron Total	mg/L	1.0	1.25	119.0	70 - 130	1.23	116.0	1.61	20	
Magnesium Total	mg/L	10.0	10.7	107.0	70 - 130	10.5	105.0	1.9	20	
Manganese Total	mg/L	1.0	1.09	109.0	70 - 130	1.06	106.0	2.8	20	
Sodium Total	mg/L	10.0	171.0	431.0	70 - 130	164.0	361.0	4.18	20	SH

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Quality Control Results

QC Batch: WET/25500 **Analysis Method:** E300.0, Anions
Preparation Method: E300.0, Anions
Associated Lab IDs: Q2135154001, Q2135154002, Q2135154003, Q2135154004, Q2135154005

Laboratory Fortified Blank (1695529)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
ortho-Phosphate (as P)	mg/L	1.0	0.99	99.0	90 - 110	

Laboratory Reagent Blank(1695322)

Parameter	Units	Results	MRL	LOD	Qualifier
ortho-Phosphate (as P)	mg/L	<0.0100	0.01	0.005	

Method Reporting Limit Check (1695324)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
ortho-Phosphate (as P)	mg/L	0.01	0.01	100.0	50 - 150	

Laboratory Fortified Matrix (1695327); Lab Fortified Matrix Duplicate (1695328); Original: Q2135154003

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
ortho-Phosphate (as P)	mg/L	1.0	1.93	101.0	80 - 120	1.94	102.0	0.517	20	

Limit of Quantitation Check (1695325)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
ortho-Phosphate (as P)	mg/L	0.02	0.02	100.0	70 - 130	

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Quality Control Results

QC Batch: WET/25501 **Analysis Method:** E300.0, Anions
Preparation Method: E300.0, Anions
Associated Lab IDs: Q2135154001, Q2135154002, Q2135154003, Q2135154004, Q2135154005

Laboratory Fortified Matrix (1695336); Lab Fortified Matrix Duplicate (1695337); Original: Q2135154003

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Chloride	mg/L	20.0	59.6	96.2	80 - 120	59.6	96.4	0.0	20	

Laboratory Reagent Blank(1695330)

Parameter	Units	Results	MRL	LOD	Qualifier
Chloride	mg/L	<1.00	1.0	0.5	

Laboratory Fortified Blank (1695333)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chloride	mg/L	30.0	30.3	101.0	90 - 110	

Laboratory Reagent Blank(1695860)

Parameter	Units	Results	MRL	LOD	Qualifier
Sulfate	mg/L	<1.00	1.0	0.5	

Laboratory Fortified Blank (1695861)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Sulfate	mg/L	30.0	30.2	101.0	90 - 110	

Method Reporting Limit Check (1695332)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chloride	mg/L	1.0	0.762	76.2	50 - 150	
Sulfate	mg/L	1.0	0.81	81.0	50 - 150	

Laboratory Fortified Matrix (1695862); Lab Fortified Matrix Duplicate (1695863); Original: Q2135215002

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Sulfate	mg/L	20.0	59.0	96.1	80 - 120	59.1	96.4	0.169	20	

Limit of Quantitation Check (1695334)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chloride	mg/L	5.0	4.18	83.6	70 - 130	
Sulfate	mg/L	5.0	4.2	84.0	70 - 130	

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Quality Control Results

QC Batch: WET/25508 **Analysis Method:** SM2320B, Alkalinity
Preparation Method: SM2320B, Alkalinity
Associated Lab IDs: Q2135154001, Q2135154002, Q2135154003, Q2135154004, Q2135154005

Duplicate (1696174); Original Q2135095007

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Total Alkalinity (CaCO3)	mg/L	174.0	174.0	0.0	20	

Lab Control Sample (1696176)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Alkalinity (CaCO3)	mg/L	100.0	91.8	91.8	90 - 110	

Method Reporting Limit Check (1696169)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Alkalinity (CaCO3)	mg/L	20.0	20.0	100.0	50 - 150	

Matrix Spike (1696175); Original: Q2135095007

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Alkalinity (CaCO3)	mg/L	100.0	259.0	84.4	70 - 130	

Method Blank(1696177)

Parameter	Units	Results	MRL	LOD	Qualifier
Total Alkalinity (CaCO3)	mg/L	<20.0	20.0	20.0	

Limit of Quantitation Check (1696168)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Alkalinity (CaCO3)	mg/L	20.0	20.2	101.0	70 - 130	

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Quality Control Results

QC Batch: WET/25515 **Analysis Method:** SM2540C, TDS
Preparation Method: SM2540C, TDS
Associated Lab IDs: Q2135154001, Q2135154002, Q2135154003, Q2135154004

Method Blank(1696523)

Parameter	Units	Results	MRL	LOD	Qualifier
Total Dissolved Solids(TDS)	mg/L	<25.0	25.0	10.0	

Duplicate (1696525); Original Q2135153006

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Total Dissolved Solids(TDS)	mg/L	0.0	608.0	200.0	20	

Lab Control Sample (1696524)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Dissolved Solids(TDS)	mg/L	400.0	324.0	81.0	80 - 120	

Matrix Spike (1696526); Original: Q2135153006

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Dissolved Solids(TDS)	mg/L	400.0	988.0	247.0	70 - 130	SH

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Quality Control Results

QC Batch: WET/25524
Preparation Method: SM2540C, TDS
Associated Lab IDs: Q2135154005
Analysis Method: SM2540C, TDS

Duplicate (1696968); Original Q2135154005

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Total Dissolved Solids(TDS)	mg/L	600.0	631.0	5.04	20	

Matrix Spike (1696969); Original: Q2135154005

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Dissolved Solids(TDS)	mg/L	400.0	1050.0	114.0	70 - 130	

Lab Control Sample (1696967)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Dissolved Solids(TDS)	mg/L	400.0	348.0	87.0	80 - 120	

Method Blank(1696966)

Parameter	Units	Results	MRL	LOD	Qualifier
Total Dissolved Solids(TDS)	mg/L	<25.0	25.0	10.0	

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Quality Control Results

QC Batch: WET/25527
Preparation Method: SM2510B, Conductivity @ 25°C
Associated Lab IDs: Q2135154001
Analysis Method: SM2510B, Conductivity @ 25°C

Method Blank(1697160)

Parameter	Units	Results	MRL	LOD	Qualifier
Specific Conductance	umho/cm	<10.0	10.0	10.0	

Lab Control Sample (1697158)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Specific Conductance	umho/cm	1000.0	1000.0	100.0	70 - 130	

Duplicate (1697159); Original Q2135154001

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Specific Conductance	umho/cm	892.0	890.0	0.224	20	

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Quality Control Results

QC Batch: WET/25527 **Analysis Method:** SM2510B, Conductivity @ 25°C
Preparation Method: SM2510B, Conductivity @ 25°C
Associated Lab IDs: Q2135154002, Q2135154003, Q2135154004, Q2135154005

Method Blank(1697163)

Parameter	Units	Results	MRL	LOD	Qualifier
Specific Conductance	umho/cm	<10.0	10.0	10.0	

Duplicate (1697162); Original Q2135156006

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Specific Conductance	umho/cm	789.0	792.0	0.38	20	

Lab Control Sample (1697161)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Specific Conductance	umho/cm	1000.0	1010.0	101.0	70 - 130	

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QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
MET/8910 - E200.7 Metals, Trace Elements			
Q2135154001	DS01	MEP/11668	E200.7 Prep
Q2135154002	DS01	MEP/11668	E200.7 Prep
Q2135154003	PBCU001	MEP/11663	E200.7 Prep
Q2135154004	PBCU002	MEP/11668	E200.7 Prep
Q2135154005	PBCU003	MEP/11663	E200.7 Prep
WET/25500 - E300.0, Anions			
Q2135154001	DS01		
Q2135154002	DS01		
Q2135154003	PBCU001		
Q2135154004	PBCU002		
Q2135154005	PBCU003		
WET/25501 - E300.0, Anions			
Q2135154001	DS01		
Q2135154002	DS01		
Q2135154003	PBCU001		
Q2135154004	PBCU002		
Q2135154005	PBCU003		
WET/25508 - SM2320B, Alkalinity			
Q2135154001	DS01		
Q2135154002	DS01		
Q2135154003	PBCU001		
Q2135154004	PBCU002		
Q2135154005	PBCU003		
WET/25515 - SM2540C, TDS			
Q2135154001	DS01		
Q2135154002	DS01		
Q2135154003	PBCU001		
Q2135154004	PBCU002		
WET/25524 - SM2540C, TDS			
Q2135154005	PBCU003		

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QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WET/25527 - SM2510B, Conductivity @ 25°C			
Q2135154001	DS01		
Q2135154002	DS01		
Q2135154003	PBCU001		
Q2135154004	PBCU002		
Q2135154005	PBCU003		

End of Report