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01 June 2018

Lake Livingston WSC

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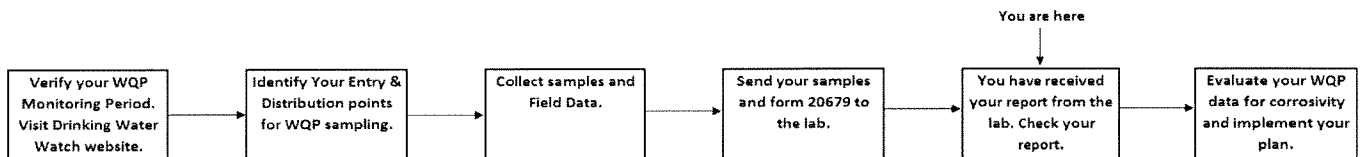
P.O. Box 1149

Livingston, TX 77351

RE: LLWS Indian Hill 2 WQP

Water Quality Parameters (WQP) Report

Enclosed, is your Water Quality Parameter (WQP) report with the necessary support data. Eastex Lab has reported your results to TCEQ in the following formats: 1. EDD of your data and 2. PDF of your report.



Here are your next actions:

1. Check your report for any errors, such as: Regulatory ID, site names. Please make sure all your sites are listed correctly.
2. Evaluate your WQP data for corrosivity and implement your plan.
3. Please retain all forms and reports from the lab for future field inspections.

If you have questions regarding any of the enclosed data, please call me at 936-653-3249. For compliance questions, please call TCEQ's WQP team at 512-239-4691.

Daniel Bowen
Laboratory Director



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P.O. Box 1149
Livingston TX, 77351

TCEQ Report ID: **PWS_TX1870020_AC_20180430_WQP Analysis Report**

Project: **LLWS Indian Hill 2 WQP**
Laboratory Sample ID: **C8D4626-01**
Sampling Point: **DSTWQP**
Sample Location: **253 Jennings Lane**
State Assigned ID: **DS01**

Sample Received Date and Time: 04/30/2018 13:35
Sample Date and Time: 04/30/2018 12:21
Sample Matrix: Potable
Sample Type: Grab
Collector: MDG

Analyte	Result	Units	Reporting Limits	MDL	Nelac Status	Batch	Analyzed	Analyst	Method
Eastex Environmental Laboratory - Coldspring									
Alkalinity	78	mg CaCO ₃ /L	20	9	P	B8E0076	05/01/2018 17:03	ACW	SM 2320 B
Calcium, Total	39.3	mg/L	0.100	0.0225	P	B8E0017	05/02/2018 09:56	MLJ	EPA 200.7
Chloride	27.9	mg/L	5.0	1.9	A	B8E0150	05/01/2018 15:00	LAN	EPA 300.0
Conductivity	412	µmhos/cm @25C	10	0.3	A	B8E0066	05/08/2018 14:12	ACW	SM 2510 B
Hardness	131	mg CaCO ₃ /L	5.00	1.50	A	B8E1707	05/11/2018 14:07	TDS	SM 2340 C
Iron, Total	<0.100	mg/L	0.100	0.00520	A	B8E0019	05/01/2018 14:18	MLJ	EPA 200.7
Manganese, Total	0.00980	mg/L	0.00100	0.000105	A	B8E0019	05/01/2018 14:18	MLJ	EPA 200.7
pH	7.40	std unit			N	B8D3736	04/30/2018 12:21	MDG	SM 4500 H + B
Sodium, Total	35.8	mg/L	0.500	0.0222	A	B8E0017	05/02/2018 09:56	MLJ	EPA 200.7
Sulfate	73.9	mg/L	5.0	5.0	A	B8E0150	05/01/2018 15:00	LAN	EPA 300.0
TDS	248	mg/L	10.0	10.0	A	B8E0496	05/03/2018 13:01	ACW	SM 2540 C
Temp	25.9	degrees C			P	B8D3736	04/30/2018 12:21	MDG	SM 2550



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TCEQ Report ID: **PWS_TX1870020_AC_20180430_WQP Analysis Report**

Project: **LLWS Indian Hill 2 WQP**
Laboratory Sample ID: **C8D4626-02**
Sampling Point: **EWQP**
Sample Location: **625 Old S. Post Oak Road**
State Assigned ID: **PBCU001**

Sample Received Date and Time: 04/30/2018 13:35
Sample Date and Time: 04/30/2018 12:16
Sample Matrix: Potable
Sample Type: Grab
Collector: MDG

Analyte	Result	Units	Reporting Limits	MDL	Nelac Status	Batch	Analyzed	Analyst	Method
Eastex Environmental Laboratory - Coldspring									
Alkalinity	82	mg CaCO ₃ /L	20	9	P	B8E0076	05/01/2018 17:03	ACW	SM 2320 B
Calcium, Total	45.8	mg/L	0.100	0.0225	P	B8E0017	05/02/2018 09:59	MLJ	EPA 200.7
Chloride	33.3	mg/L	5.0	1.9	A	B8E0150	05/01/2018 15:00	LAN	EPA 300.0
Conductivity	426	µmhos/cm @25C	10	0.3	A	B8E0066	05/08/2018 14:12	ACW	SM 2510 B
Hardness	116	mg CaCO ₃ /L	5.00	1.50	A	B8E1704	05/11/2018 13:00	TDS	SM 2340 C
Iron, Total	0.235	mg/L	0.100	0.00520	A	B8E0019	05/01/2018 14:23	MLJ	EPA 200.7
Manganese, Total	0.0947	mg/L	0.00100	0.000105	A	B8E0019	05/01/2018 14:23	MLJ	EPA 200.7
pH	7.50	std unit			N	B8D3736	04/30/2018 12:16	MDG	SM 4500 H + B
Sodium, Total	33.9	mg/L	0.500	0.0222	A	B8E0017	05/02/2018 09:59	MLJ	EPA 200.7
Sulfate	58.9	mg/L	5.0	5.0	A	B8E0150	05/01/2018 15:00	LAN	EPA 300.0
TDS	236	mg/L	10.0	10.0	A	B8E0496	05/03/2018 13:01	ACW	SM 2540 C
Temp	25.7	degrees C			P	B8D3736	04/30/2018 12:16	MDG	SM 2550



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TCEQ Report ID: **PWS_TX1870020_AC_20180430_WQP Analysis Report**

EPA 200.7 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E0017 - EPA 200.7

Blank (B8E0017-BLK1)

Prepared: 05/01/18 Analyzed: 05/02/18

Calcium, Total	ND	0.100	mg/L
Sodium, Total	ND	0.500	mg/L

LCS (B8E0017-BS1)

Prepared: 05/01/18 Analyzed: 05/02/18

Calcium, Total	23.7	0.100	mg/L	25.0	94.7	85-115
Sodium, Total	26.9	0.500	mg/L	25.0	108	85-115

Matrix Spike (B8E0017-MS1)

Source: C8D4622-01

Prepared: 05/01/18 Analyzed: 05/02/18

Calcium, Total	65.5	0.100	mg/L	25.0	41.6	95.8	70-130
Sodium, Total	55.6	0.500	mg/L	25.0	37.0	74.3	70-130

Matrix Spike Dup (B8E0017-MSD1)

Source: C8D4622-01

Prepared: 05/01/18 Analyzed: 05/02/18

Calcium, Total	65.9	0.100	mg/L	25.0	41.6	97.2	70-130	0.525	20
Sodium, Total	56.2	0.500	mg/L	25.0	37.0	76.9	70-130	1.17	20

Batch B8E0019 - EPA 200.7

Blank (B8E0019-BLK1)

Prepared & Analyzed: 05/01/18

Iron, Total	ND	0.100	mg/L
Manganese, Total	ND	0.00100	mg/L

LCS (B8E0019-BS1)

Prepared & Analyzed: 05/01/18

Iron, Total	0.234	0.100	mg/L	0.250	93.7	85-115
Manganese, Total	0.240	0.00100	mg/L	0.250	96.2	85-115

Matrix Spike (B8E0019-MS1)

Source: C8D4622-01

Prepared & Analyzed: 05/01/18

Iron, Total	0.234	0.100	mg/L	0.250	ND	93.7	70-130
Manganese, Total	0.205	0.00100	mg/L	0.250	0.00756	78.8	70-130



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EPA 200.7 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E0019 - EPA 200.7

Matrix Spike Dup (B8E0019-MSD1)

Source: C8D4622-01

Prepared & Analyzed: 05/01/18

Iron, Total	0.247	0.100	mg/L	0.250	ND	98.9	70-130	5.38	20	
Manganese, Total	0.212	0.00100	mg/L	0.250	0.00756	81.8	70-130	3.56	20	

Batch B8E0066 - No Prep

Blank (B8E0066-BLK1)

Prepared & Analyzed: 05/08/18

Conductivity	ND	10	µmhos/cm @25C							
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LCS (B8E0066-BS1)

Prepared & Analyzed: 05/08/18

Conductivity	999		µmhos/cm @25C	1000		99.9	80-120			
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Duplicate (B8E0066-DUP1)

Source: C8D4622-01

Prepared & Analyzed: 05/08/18

Conductivity	419	10	µmhos/cm @25C		419			0.00	20	
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Batch B8E0076 - No Prep

Blank (B8E0076-BLK1)

Prepared & Analyzed: 05/01/18

Alkalinity	ND	20	mg CaCO3/L							40
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LCS (B8E0076-BS1)

Prepared & Analyzed: 05/01/18

Alkalinity	46		mg CaCO3/L	50.0		92.0	80-120			40
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Duplicate (B8E0076-DUP1)

Source: C8D4624-01

Prepared & Analyzed: 05/01/18

Alkalinity	238	20	mg CaCO3/L		238			0.00	20	40
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TCEQ Report ID: PWS_TX1870020_AC_20180430_WQP Analysis Report

EPA 300.0 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Notes
Batch B8E0150 - No Prep										
Blank (B8E0150-BLK1)				Prepared & Analyzed: 05/01/18						
Chloride	ND	5.0	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (B8E0150-BS1)				Prepared & Analyzed: 05/01/18						
Chloride	129		mg/L	125		103	80-120			
Sulfate	101		mg/L	100		101	80-120			
Matrix Spike (B8E0150-MS1)				Source: C8D4625-01		Prepared & Analyzed: 05/01/18				
Chloride	164	5.0	mg/L	125	32.3	105	80-120			
Sulfate	186	5.0	mg/L	100	75.5	111	80-120			
Matrix Spike Dup (B8E0150-MSD1)				Source: C8D4625-01		Prepared & Analyzed: 05/01/18				
Chloride	165	5.0	mg/L	125	32.3	106	80-120	0.783	20	
Sulfate	187	5.0	mg/L	100	75.5	112	80-120	0.720	20	
Batch B8E0496 - No Prep										
Blank (B8E0496-BLK1)				Prepared & Analyzed: 05/03/18						
TDS	ND	10.0	mg/L							
LCS (B8E0496-BS1)				Prepared & Analyzed: 05/03/18						
TDS	312		mg/L	300		104	80-120			
Duplicate (B8E0496-DUP1)				Source: C8D4624-01		Prepared & Analyzed: 05/03/18				
TDS	344	10.0	mg/L		344			0.00	10	



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TCEQ Report ID: **PWS_TX1870020_AC_20180430_WQP Analysis Report**

SM 2340 C - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8E1704 - No Prep										
Blank (B8E1704-BLK1)					Prepared & Analyzed: 05/11/18					
Hardness	ND	5.00	mg CaCO ₃ /L							
LCS (B8E1704-BS1)					Prepared & Analyzed: 05/11/18					
Hardness	109		mg CaCO ₃ /L	100		109	80-120			
Matrix Spike (B8E1704-MS1)					Source: C8D4626-02 Prepared & Analyzed: 05/11/18					
Hardness	646	5.00	mg CaCO ₃ /L	500	116	106	80-120			
Matrix Spike Dup (B8E1704-MSD1)					Source: C8D4626-02 Prepared & Analyzed: 05/11/18					
Hardness	650	5.00	mg CaCO ₃ /L	500	116	107	80-120	0.617	20	
Batch B8E1707 - No Prep										
Blank (B8E1707-BLK1)					Prepared & Analyzed: 05/11/18					
Hardness	ND	5.00	mg CaCO ₃ /L							
LCS (B8E1707-BS1)					Prepared & Analyzed: 05/11/18					
Hardness	110		mg CaCO ₃ /L	100		110	80-120			
Matrix Spike (B8E1707-MS1)					Source: C8D4622-01 Prepared & Analyzed: 05/11/18					
Hardness	652	5.00	mg CaCO ₃ /L	500	148	101	80-120			
Matrix Spike Dup (B8E1707-MSD1)					Source: C8D4622-01 Prepared & Analyzed: 05/11/18					
Hardness	655	5.00	mg CaCO ₃ /L	500	148	101	80-120	0.459	20	



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TCEQ Report ID: **PWS_TX1870020_AC_20180430_WQP Analysis Report**

Notes and Definitions

40	Alkalinity titrated to pH 4.5 endpoint.
12	CCV associated with sample batch did not meet acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

**INVOICE TO:**

① Company L L W S Address on file Attn. Phone # Fax #	② Company Address Attn. Phone # Fax # P.O. #	Sampler's Name (please print) Matthew Green Sampler's Signature 
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[illegible]

Relinquished By: (Signature)	Received By: (Signature)	Date	Time
Relinquished By: (Signature)	Received By: (Signature)	Date	Time
Relinquished By: (Signature)	Received and/or Checked in By: (Signature)	Date	Time
LAB USE ONLY	Sample Condition Acceptable: Yes / No	Temp °C	* Therm ID
Alternate Check in: (Signature)	Date	Time	