

16 September 2019

Si Environmental, LLC Mike Thornhill 6420 Reading Road Rosenberg, TX 77471

Lamar CISD Foster Briscoe & Wertheimer - WQP

Enclosed are the results of analyses for samples received by the laboratory on 27-Aug-19 14:40. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 11

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Kyle Chernosky For Maria Lynch

Client Services Representative

Kyl Y

ENI TNI

Certificate No: T104704265-19-16

Envirodyne Laboratories, Inc 11011 Brooklet Dr., # 230 Houston, TX 77099 281.568.7880 Phone www.envirodyne.com



Client: Si Environmental, LLC

Project: Lamar CISD Foster Briscoe & Wertheimer - WQP

Work Order: 19H3498 **PWS ID:** TX0790388

Reported:

16-Sep-19 11:14

ANALYTICAL REPORT FOR SAMPLES

	Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
EV	/QP	PBCU001 - 4400 FM 723, RICHMOND	19H3498-01	Water	27-Aug-19 07:56	27-Aug-19 14:40
DS	TWQP	DS01 - 4400 FM 723 (FOSTER HIGH S	19H3498-02	Water	27-Aug-19 08:11	27-Aug-19 14:40
DS	TWQP	DS01 - 4400 FM 723 (FOSTER FIELD	19H3498-03	Water	27-Aug-19 08:18	27-Aug-19 14:40
DS	TWQP	DS01 - 4300 FM 723 (BRISCOE JR HIC	19H3498-04	Water	27-Aug-19 08:28	27-Aug-19 14:40

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Work Order: 19H3498 **PWS ID:** TX0790388

Reported:

16-Sep-19 11:14

PBCU001 - 4400 FM 723, RICHMOND - WELL#5 GST

19H3498-01 (Water) Sampled: 27-Aug-19 07:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
]	Envirod	yne Labo	ratories, I	nc.				
Field Analysis										
рН	7.08		SU	1	В9Н3554	27-Aug-19	27-Aug-19 07:56	SM4500H+ B	CCC	
Temperature	26.4	10.0	°C	1	В9Н3554	27-Aug-19	27-Aug-19 07:56	SM2550 B	CCC	
Wet Chemistry										
Alkalinity (m) as CaCO3	173	20.0	mg/L	1	B9I0039	04-Sep-19	04-Sep-19 08:31	SM 2320 B	PT	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B9I0039	04-Sep-19	04-Sep-19 08:31	SM 2320 B	PT	
Total Alkalinity as CaCO3	173	20.0	mg/L	1	[CALC]	04-Sep-19	04-Sep-19 08:31	[CALC]	PT	
Conductivity	525	30	uS/cm	1	B9H3611	28-Aug-19	28-Aug-19 13:31	SM2510 B	PT	
TDS	296	10.0	mg/L	1	B9H4032	30-Aug-19	30-Aug-19 15:30	SM2540 C	JCR	
Total Metals by ICP										
Calcium	64.1	2.00	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 12:59	EPA 200.7	JPC	
Total Hardness as CaCO3	190	13.2	mg/L	1	[CALC]	05-Sep-19	06-Sep-19 12:59	SM 2340B	JPC	
Iron	0.0070	0.0050	mg/L	1	B9I0682	05-Sep-19	06-Sep-19 16:44	EPA 200.7	JPC	
Magnesium	7.20	2.00	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 12:59	EPA 200.7	JPC	
Manganese	< 0.0050	0.0050	mg/L	1	B9I0682	05-Sep-19	06-Sep-19 16:44	EPA 200.7	JPC	
Sodium	31.5	2.0	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 12:59	EPA 200.7	JPC	

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Reported:

16-Sep-19 11:14

DS01 - 4400 FM 723 (FOSTER HIGH SCHOOL)

19H3498-02 (Water) Sampled: 27-Aug-19 08:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Envirod	yne Labo	ratories, I	nc.				
Field Analysis										
pН	7.15		SU	1	В9Н3554	27-Aug-19	27-Aug-19 08:11	SM4500H+ B	CCC	
Temperature	26.7	10.0	°C	1	В9Н3554	27-Aug-19	27-Aug-19 08:11	SM2550 B	CCC	
Wet Chemistry										
Alkalinity (m) as CaCO3	158	20.0	mg/L	1	B9I0039	04-Sep-19	04-Sep-19 08:31	SM 2320 B	PT	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B9I0039	04-Sep-19	04-Sep-19 08:31	SM 2320 B	PT	
Total Alkalinity as CaCO3	158	20.0	mg/L	1	[CALC]	04-Sep-19	04-Sep-19 08:31	[CALC]	PT	
Conductivity	553	30	uS/cm	1	B9H3611	28-Aug-19	28-Aug-19 13:31	SM2510 B	PT	
TDS	260	10.0	mg/L	1	B9H4032	30-Aug-19	30-Aug-19 15:30	SM2540 C	JCR	
Total Metals by ICP										
Calcium	62.5	2.00	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:01	EPA 200.7	JPC	
Total Hardness as CaCO3	185	13.2	mg/L	1	[CALC]	05-Sep-19	06-Sep-19 13:01	SM 2340B	JPC	
Iron	< 0.0050	0.0050	mg/L	1	B9I0682	05-Sep-19	06-Sep-19 16:48	EPA 200.7	JPC	
Magnesium	7.14	2.00	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:01	EPA 200.7	JPC	
Manganese	< 0.0050	0.0050	mg/L	1	B9I0682	05-Sep-19	06-Sep-19 16:48	EPA 200.7	JPC	
Sodium	25.7	2.0	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:01	EPA 200.7	JPC	

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Work Order: 19H3498 **PWS ID:** TX0790388

Reported:

16-Sep-19 11:14

DS01 - 4400 FM 723 (FOSTER FIELD HOUSE)

19H3498-03 (Water) Sampled: 27-Aug-19 08:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Envirod	yne Labo	ratories, I	nc.				
Field Analysis										
pH	7.06		SU	1	В9Н3554	27-Aug-19	27-Aug-19 08:18	SM4500H+ B	CCC	
Temperature	26.0	10.0	°C	1	В9Н3554	27-Aug-19	27-Aug-19 08:18	SM2550 B	CCC	
Wet Chemistry										
Alkalinity (m) as CaCO3	183	20.0	mg/L	1	B9I0039	04-Sep-19	04-Sep-19 08:31	SM 2320 B	PT	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B9I0039	04-Sep-19	04-Sep-19 08:31	SM 2320 B	PT	
Total Alkalinity as CaCO3	183	20.0	mg/L	1	[CALC]	04-Sep-19	04-Sep-19 08:31	[CALC]	PT	
Conductivity	496	30	uS/cm	1	B9H3611	28-Aug-19	28-Aug-19 13:31	SM2510 B	PT	
TDS	276	10.0	mg/L	1	В9Н4033	30-Aug-19	30-Aug-19 15:05	SM2540 C	JCR	
Total Metals by ICP										
Calcium	42.5	2.00	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:03	EPA 200.7	JPC	
Total Hardness as CaCO3	141	13.2	mg/L	1	[CALC]	05-Sep-19	06-Sep-19 13:03	SM 2340B	JPC	
Iron	0.0348	0.0050	mg/L	1	B9I0682	05-Sep-19	06-Sep-19 16:51	EPA 200.7	JPC	
Magnesium	8.54	2.00	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:03	EPA 200.7	JPC	
Manganese	< 0.0050	0.0050	mg/L	1	B9I0682	05-Sep-19	06-Sep-19 16:51	EPA 200.7	JPC	
Sodium	62.4	2.0	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:03	EPA 200.7	JPC	

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Reported:

16-Sep-19 11:14

DS01 - 4300 FM 723 (BRISCOE JR HIGH)

19H3498-04 (Water) Sampled: 27-Aug-19 08:28

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
]	Envirod	yne Labo	ratories, I	nc.				
Field Analysis										
pH	7.19		SU	1	B9H3554	27-Aug-19	27-Aug-19 08:28	SM4500H+ B	CCC	
Temperature	26.2	10.0	°C	1	В9Н3554	27-Aug-19	27-Aug-19 08:28	SM2550 B	CCC	
Wet Chemistry										
Alkalinity (m) as CaCO3	184	20.0	mg/L	1	B9I0039	04-Sep-19	04-Sep-19 08:31	SM 2320 B	PT	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B9I0039	04-Sep-19	04-Sep-19 08:31	SM 2320 B	PT	
Total Alkalinity as CaCO3	184	20.0	mg/L	1	[CALC]	04-Sep-19	04-Sep-19 08:31	[CALC]	PT	
Conductivity	537	30	uS/cm	1	B9H3611	28-Aug-19	28-Aug-19 13:31	SM2510 B	PT	
TDS	278	10.0	mg/L	1	B9H4033	30-Aug-19	30-Aug-19 15:05	SM2540 C	JCR	
Total Metals by ICP										
Calcium	56.8	2.00	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:05	EPA 200.7	JPC	
Total Hardness as CaCO3	179	13.2	mg/L	1	[CALC]	05-Sep-19	06-Sep-19 13:05	SM 2340B	JPC	
Iron	0.0220	0.0050	mg/L	1	B9I0682	05-Sep-19	06-Sep-19 16:54	EPA 200.7	JPC	
Magnesium	9.08	2.00	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:05	EPA 200.7	JPC	
Manganese	< 0.0050	0.0050	mg/L	1	B9I0682	05-Sep-19	06-Sep-19 16:54	EPA 200.7	JPC	
Sodium	30.1	2.0	mg/L	1	B9I0692	05-Sep-19	06-Sep-19 13:05	EPA 200.7	JPC	

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Wet Chemistry - Quality Control Envirodyne Laboratories, Inc.

	n	Reporting	** **	Spike	Source	A/DEG	%REC	222	RPD	N T .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B9H3611 - Inorganics										
Blank (B9H3611-BLK1)				Prepared &	Analyzed:	28-Aug-19				
Conductivity	<30	30	uS/cm							
Duplicate (B9H3611-DUP1)	Sou	rce: 19H3498-	01	Prepared &	Analyzed:	28-Aug-19				
Conductivity	526	30	uS/cm			0.171	20			
Reference (B9H3611-SRM1)				Prepared &	Analyzed:	28-Aug-19				
Conductivity	181		uS/cm	180		101	0-200			
Batch B9H4032 - Inorganics										
Blank (B9H4032-BLK1)				Prepared &	Analyzed:	30-Aug-19				
TDS	<10.0	10.0	mg/L							
Duplicate (B9H4032-DUP1)	Sou	rce: 19H3115-	02	Prepared &	Analyzed:	30-Aug-19				
TDS	44.0	10.0	mg/L		42.0			4.65	20	
Batch B9H4033 - Inorganics										
Blank (B9H4033-BLK1)				Prepared &	Analyzed:	30-Aug-19				
TDS	<10.0	10.0	mg/L							
Duplicate (B9H4033-DUP1)	Sou	rce: 19H3379-	01	Prepared &	z Analyzed:	30-Aug-19				
TDS	238	10.0	mg/L		240			0.837	20	
Batch B9I0039 - Inorganics										
Blank (B9I0039-BLK1)				Prepared &	z Analyzed:	04-Sep-19				
Alkalinity (m) as CaCO3	<20.0	20.0	mg/L							
Alkalinity (p) as CaCO3	<20.0	20.0	"							

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Work Order: 19H3498 **PWS ID:** TX0790388

Reported:

RPD

16-Sep-19 11:14

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Spike

Source

%REC

Reporting

Analyte	Result Limit Units Level Result %REC		%REC	Limits	RPD	Limit	Notes			
Batch B9I0039 - Inorganics										
LCS (B9I0039-BS1)				Prepared &	Analyzed:	04-Sep-19				
Alkalinity (m) as CaCO3	53.0		mg/L	50.0		106	90-110			
Alkalinity (p) as CaCO3	49.0		"	50.0 98.0		90-110				
Duplicate (B9I0039-DUP1)	Sourc	Source: 19H3488-01			Analyzed:	04-Sep-19				
Alkalinity (m) as CaCO3	192	20.0	mg/L	194				1.04	20	
Alkalinity (p) as CaCO3	<20.0	20.0	"	<20.0			0	20		

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Reported:

16-Sep-19 11:14

Total Metals by ICP - Quality Control Envirodyne Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch B9I0682 - Metals - EPA 200.2												
Blank (B9I0682-BLK1)				Prepared: ()5-Sep-19 A	analyzed: 0	6-Sep-19					
Manganese	< 0.0050	0.0050	mg/L									
Iron	< 0.0050	0.0050	"									
LCS (B9I0682-BS1)				Prepared: ()5-Sep-19 A	nalyzed: 0	6-Sep-19					
Manganese	260		ug/L	250		104	85-115					
Iron	259		"	250	250 104 85-115							
Matrix Spike (B9I0682-MS1)	Sou	rce: 19H3494-	01	Prepared: ()5-Sep-19 A	nalyzed: 0	6-Sep-19					
Manganese	0.505	0.0050	mg/L	0.500	0.0121	98.6	70-130					
Iron	0.613	0.0050	"	0.500	0.111	100	70-130					
Matrix Spike Dup (B9I0682-MSD1)	Sou	rce: 19H3494-	01	Prepared: ()5-Sep-19 A	analyzed: 0	6-Sep-19					
Manganese	0.502	0.0050	mg/L	0.500	0.0121	97.9	70-130	0.645	20			
Iron	0.630	0.0050	"	0.500	0.111	104	70-130	2.74	20			
Batch B9I0692 - Metals - EPA 200.2												
Blank (B9I0692-BLK1)				Prepared: ()5-Sep-19 A	nalyzed: 0	6-Sep-19					
Magnesium	<2.00	2.00	mg/L									
Calcium	< 2.00	2.00	"									
Sodium	<2.0	2.0	"									
LCS (B9I0692-BS1)				Prepared: ()5-Sep-19 A	nalyzed: 0	6-Sep-19					
Sodium	20.1		mg/L	20.0		100	85-115					
Magnesium	20.6		"	20.0		103	85-115					
Calcium	20.6		,,	20.0		103	85-115					

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Work Order: 19H3498 **PWS ID:** TX0790388

Reported:

RPD

16-Sep-19 11:14

Total Metals by ICP - Quality Control

Envirodyne Laboratories, Inc.

Spike

Source

%REC

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B9I0692 - Metals - EPA 200.2										
Matrix Spike (B9I0692-MS1)	Source	e: 19H3494-	-01	Prepared: ()5-Sep-19 A	analyzed: 0	6-Sep-19			
Calcium	64.1	2.00	mg/L	20.0	45.2	94.6	70-130			
Magnesium	23.8	2.00	"	20.0	6.54	86.4	70-130			
Sodium	80.6	2.0	"	20.0	58.5	110	70-130			
Matrix Spike Dup (B9I0692-MSD1)	Source	e: 19H3494-	-01	Prepared: ()5-Sep-19 A	analyzed: 0	6-Sep-19			
Magnesium	24.0	2.00	mg/L	20.0	6.54	87.4	70-130	0.875	20	
Sodium	75.9	2.0	"	20.0	58.5	86.7	70-130	6.06	20	
Calcium	64.2	2.00	"	20.0	45.2	94.8	70-130	0.0819	20	

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Reported:

16-Sep-19 11:14

Notes and Definitions

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
CLT Client Representative

Envirodyne Laboratories, Inc.

Kyl Y

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY PARAMETER MONITORING FORM 20679 Completed by PWS (or Agent) Completed by Laboratory																				
	Andrews in		Com	pleted by PW:					ME WELLOW DISPOSE		Cor	nple	ted	by La	bora	tory	n e			0.33
	PWS Name:	LAMAR	CISD FOSTER BRI	SCOE AND	WERTH	HEIMER			Labor	atory Name:	Envirodyne Labora	torie	es, I	nc.						
	PWS ID#:	TX 079	90388						тсі	EQ Lab ID #:	TX-288									
Р	WS Address:										11011 Brooklet Dr #230									
,	WS Contact:	Mike	Thornhill						Laborat	ory Address:	Houston, TX 77099)								
PWS Cont	act Phone #:	832-4	190-1507						Laborat	ory Contact:	:: Laura Bonjonia									
Inhibit	or or Stablizer I	Used (√):	Phosphate	Silica	100	Calcium car	bonate													
TR	EATMENT		Alkalinity Dosage Rate:	Inhibitor Dosage Rate: Laboratory						ontact Phone #:	281-568-7880									
				Sample Infor	mation			NA.												
	Sample	Control of the last of the las	Compliance	Non-com					TV 000		Parameters Requeste checked. * If inhibitors									
	Sample Colle	ector (√):	Public Water System													nding	on wh	ich is ir	1	
Temp	erature and pH	(Y or N): Y	Are temperature and pH included Laboratory Approval Form on file		ntity's	Y Were tempera collection?	ture and pH mea	in the field within 15 m	inutes of sample				isc.							
	Sample			Sample Collection Field Measurements			int?				(73	(6	7)	15)		1032)		(1044)*		
Facility ID (e.g. DS01,	Sample Point ID (e.g. DSTWQP,			Date	Time - 24	hr		Replaceme (v)	Original Sample	Original Sample Date		Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Hardness (1915)	n (1028)	Manganese (1032) Sodium (1052)	Sulfate (1055)	TDS (1930) O-Phosphate (1044) *	Silica (1049)
PBCU001)	EWQP)		Sample Location	(MMDDYY)	(ннмм)	pH	Temp (°C)	S C	ID#	(MMDDYY)	Lab Sample ID			5 8	H	Iron	So Me	NS.	20	Sil
PBCU001	EWQP	4400 FM	723, Richmond - Well #5 0	SBarra	7:56	7.08	264				19173498-01	√	V	√ v	/ /	V	√ √	V	V	
DS01	DSTWQP	4400 FM	723 (Foster High School)	8-279	8:11	7.15	26.7				1943498-02	. 1	√	√ v	/ \	V	√ √	V	V	4
DSO1	DSTWQP	4400 FM	723 (Foster Field House)	8-27-9	8:18	7.06	26.0				1943498-03	√	√	√ v	/ \	V	√ √	\ \ \ .	V	
DS01	DSTWQP	4300 FM	723 (Briscoe Jr. High)	8-27-9	8:28	7.19	26.2		5		19 43498-04	\ √	√	√ v	/ \	V	√ √	V	V	
												√	√ √	√ v	/ \	V	V V	V	V	
													√	√ v			√ √	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	√	
Parameters. This	includes, but not I	imited to the	ne and correct and sites selected for measurement of pH and temperature.								Samples received unpres			ns Upo		elpt (nbient		
			le, Title 8, Chapter 37.10)		T						Rejection Code (if applicable	1		Ac	tual / C	Correc	ted _	01	nc	
Name of Author	ized PWS Repres	entative (Pri	nt) Signature	1	1 0	rganization			Date		Date & Time of Sample Preservation			samp	ie tem	peratu	ure: >	010	20	-
Chain of Custo		of ter			Envirodyne 8-				8-27-	79	(Acidified): Stylig @ 1400			The	rmom	eter IE) #: (/	力	4	
Refinquished By (6 1	ON	Date/Time: 14	140 Relinqu	ished By Courier (S	Signature)			Date/Time:	Laboratory Comments:						- 10			
Received By Cour	er (Signature)	Ten	7	S-27-9 Date/Time:	Receiv	ed By Lab (Signa	ture)		***************************************	Date/Time: 827119										
TCEQ 20679 (Rev	01/2018)			1	08			1440			- 20		33276	No. of Contract of		0.00	line el levy			