

07 March 2019

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

Si Environmental, LLC Chris Manthei 6420 Reading Road Rosenberg, TX 77471

#### **FBMUD #192 - WQP**

Enclosed are the results of analyses for samples received by the laboratory on 26-Feb-19 11:08. 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 9

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

Sincerely,

Kyle Chernosky For Itzel Dominguez

Kyl Y

**Project Manager** 

Certificate No: T104704265-18-14



Client: Si Environmental, LLC

**Project:** FBMUD #192 - WQP

**Work Order:** 19B3045 **PWS ID:** TX0790553

Reported:

07-Mar-19 12:56

### ANALYTICAL REPORT FOR SAMPLES

Sample I	ID	Laboratory ID	Matrix	Date Sampled	Date Received
EWQP	PBCU001 - 7906 MESQUITE HILL LN	I 19B3045-01	Water	26-Feb-19 08:29	26-Feb-19 11:08
DSTWQP	302 ARBOR RANCH CIR	19B3045-02	Water	26-Feb-19 08:20	26-Feb-19 11:08

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## PBCU001 - 7906 MESQUITE HILL LN 19B3045-01 (Water) Sampled: 26-Feb-19 08:29

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
		]	Envirody	yne Labo	ratories, I	nc.				
Field Analysis										
pН	7.38		SU	1	B9B3183	26-Feb-19	26-Feb-19 08:29	SM4500H+ B	CCC	
Temperature	17.6	10.0	°C	1	B9B3183	26-Feb-19	26-Feb-19 08:29	SM2550 B	CCC	
Wet Chemistry										
Alkalinity (m) as CaCO3	210	20.0	mg/L	1	B9C0003	05-Mar-19	05-Mar-19 13:30	SM 2320 B	MES	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B9C0003	05-Mar-19	05-Mar-19 13:30	SM 2320 B	MES	
Total Alkalinity as CaCO3	210	20.0	mg/L	1	[CALC]	05-Mar-19	05-Mar-19 13:30	[CALC]	MES	
Conductivity	566	30	uS/cm	1	B9C0460	05-Mar-19	05-Mar-19 14:00	SM2510 B	MES	
TDS	320	10.0	mg/L	1	B9C0116	01-Mar-19	01-Mar-19 15:53	SM2540 C	JCR	
<b>Total Metals by ICP</b>										
Calcium	32.0	0.07	mg/L	1	B9C0456	01-Mar-19	04-Mar-19 10:58	EPA 200.7	TS	
<b>Total Hardness as CaCO3</b>	104	0.792	mg/L	1	[CALC]	01-Mar-19	04-Mar-19 10:58	SM 2340B	TS	
Iron	0.417	0.0037	mg/L	1	B9C0452	01-Mar-19	04-Mar-19 14:29	EPA 200.7	TS	
Magnesium	5.77	0.15	mg/L	1	B9C0456	01-Mar-19	04-Mar-19 10:58	EPA 200.7	TS	
Manganese	0.0597	0.0005	mg/L	1	B9C0452	01-Mar-19	04-Mar-19 14:29	EPA 200.7	TS	
Sodium	83.5	0.03	mg/L	1	B9C0456	01-Mar-19	04-Mar-19 11:01	EPA 200.7	TS	

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### **302 ARBOR RANCH CIR**

19B3045-02 (Water) Sampled: 26-Feb-19 08:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
		]	Envirod	yne Labo	ratories, I	nc.				
Field Analysis										
pН	7.27		SU	1	B9B3183	26-Feb-19	26-Feb-19 08:20	SM4500H+ B	CCC	
Temperature	17.0	10.0	$^{\circ}\mathrm{C}$	1	B9B3183	26-Feb-19	26-Feb-19 08:20	SM2550 B	CCC	
Wet Chemistry										
Alkalinity (m) as CaCO3	190	20.0	mg/L	1	B9C0003	05-Mar-19	05-Mar-19 13:30	SM 2320 B	MES	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B9C0003	05-Mar-19	05-Mar-19 13:30	SM 2320 B	MES	
Total Alkalinity as CaCO3	190	20.0	mg/L	1	[CALC]	05-Mar-19	05-Mar-19 13:30	[CALC]	MES	
Conductivity	566	30	uS/cm	1	B9C0460	05-Mar-19	05-Mar-19 14:00	SM2510 B	MES	
TDS	324	10.0	mg/L	1	B9C0116	01-Mar-19	01-Mar-19 15:53	SM2540 C	JCR	
<b>Total Metals by ICP</b>										
Calcium	31.5	0.07	mg/L	1	B9C0456	01-Mar-19	04-Mar-19 11:07	EPA 200.7	TS	
Total Hardness as CaCO3	102	0.792	mg/L	1	[CALC]	01-Mar-19	04-Mar-19 11:07	SM 2340B	TS	
Iron	0.0186	0.0037	mg/L	1	B9C0452	01-Mar-19	04-Mar-19 14:39	EPA 200.7	TS	
Magnesium	5.72	0.15	mg/L	1	B9C0456	01-Mar-19	04-Mar-19 11:07	EPA 200.7	TS	
Manganese	0.0036	0.0005	mg/L	1	B9C0452	01-Mar-19	04-Mar-19 14:39	EPA 200.7	TS	
Sodium	83.0	0.03	mg/L	1	B9C0456	01-Mar-19	04-Mar-19 11:07	EPA 200.7	TS	

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# Wet Chemistry - Quality Control Envirodyne Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B9C0003 - Inorganics										
Blank (B9C0003-BLK1)				Prepared &	Analyzed:	05-Mar-19				
Alkalinity (m) as CaCO3	<20.0	20.0	mg/L							
Alkalinity (p) as CaCO3	<20.0	20.0	"							
LCS (B9C0003-BS1)				Prepared &	Analyzed:	05-Mar-19				
Alkalinity (m) as CaCO3	51.0		mg/L	50.0	50.0 102		90-110			
Alkalinity (p) as CaCO3	53.0		"	50.0		106	90-110			
Duplicate (B9C0003-DUP1)	Source	e: 19B2954-	04	Prepared &	Analyzed:	05-Mar-19				
Alkalinity (m) as CaCO3	282	20.0	mg/L				1.43	20		
Alkalinity (p) as CaCO3	<20.0	20.0	"		<20.0			0	20	
Batch B9C0116 - Inorganics										
Blank (B9C0116-BLK1)				Prepared &	Analyzed:	01-Mar-19				
TDS	<10.0	10.0	mg/L							
Duplicate (B9C0116-DUP1)	Source	e: 19B2728-	01	Prepared &	z Analyzed:	01-Mar-19				
TDS	584	10.0	mg/L		574			1.73	20	
Batch B9C0460 - Inorganics										
Blank (B9C0460-BLK1)				Prepared &	Analyzed:	05-Mar-19				
Conductivity	<30	30	uS/cm					·	·	
Duplicate (B9C0460-DUP1)	Source: 19B2918-01			Prepared &	Analyzed:	05-Mar-19				
Conductivity	448	30	uS/cm		446			0.447	20	

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## Wet Chemistry - Quality Control

## **Envirodyne Laboratories, Inc.**

		Reporting		Spike	Source	ource %REC			RPD		ı
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

**Batch B9C0460 - Inorganics** 

Reference (B9C0460-SRM1)			Prepared & An	alyzed: 05-Mar-19		
Conductivity	31.7	uS/cm	30.0	106	0-200	

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

	D. I.	Reporting	TT	Spike	Source	0/DEC	%REC	DDD	RPD	NI.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B9C0452 - Metals - EPA 200.2										
Blank (B9C0452-BLK1)				Prepared: (	01-Mar-19 A	nalyzed: 0	4-Mar-19			
Manganese	< 0.0005	0.0005	mg/L							
Iron	< 0.0037	0.0037	"							
LCS (B9C0452-BS1)	Prepared: 01-Mar-19 Analyzed: 04-M									
Manganese	261		ug/L	250		104	85-115			
Iron	263		"	250		105	85-115			
Matrix Spike (B9C0452-MS1)	Sour	ce: 19B3045-	01	Prepared: (	01-Mar-19 <i>A</i>	Analyzed: 0				
Manganese	0.561	0.0005	mg/L	0.500	0.0597	100	70-130			
Iron	0.927	0.0037	"	0.500	0.417	102	70-130			
Matrix Spike Dup (B9C0452-MSD1)	Sour	rce: 19B3045-	01	Prepared: 01-Mar-19 Analyzed: 04-Mar-19						
Iron	0.927	0.0037	mg/L	0.500	0.417	102	70-130	0.0344	20	
Manganese	0.561	0.0005	"	0.500	0.0597	100	70-130	0.0972	20	
Batch B9C0456 - Metals - EPA 200.2										
Blank (B9C0456-BLK1)				Prepared: (	01-Mar-19 <i>A</i>	nalyzed: 0	4-Mar-19			
Magnesium	< 0.15	0.15	mg/L							
Sodium	< 0.03	0.03	"							
Calcium	< 0.07	0.07	"							
LCS (B9C0456-BS1)				Prepared: (	)1-Mar-19 <i>A</i>	nalyzed: 0	4-Mar-19			
Calcium	20.2		mg/L	20.0		101	85-115			
Magnesium	20.3		"	20.0		101	85-115			
Sodium	19.9		"	20.0		99.3	85-115			

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# 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

Matrix Spike (B9C0456-MS1)	Source	e: 19B3045-	01	Prepared: 0	1-Mar-19 A	)4-Mar-19			
Calcium	52.7	0.07	mg/L	20.0	32.0	104	70-130		
Magnesium	26.6	0.15	"	20.0	5.77	104	70-130		
Sodium	105	0.03	"	20.0	83.5	109	70-130		
Matrix Spike Dup (B9C0456-MSD1)	Source	Source: 19B3045-01			1-Mar-19 A	)4-Mar-19			
Calcium	51.3	0.07	mg/L	20.0	32.0	96.6	70-130	2.69	20
Magnesium	26.4	0.15	"	20.0	5.77	103	70-130	0.875	20
Sodium	102	0.03	"	20.0	83.5	91.4	70-130	3.39	20

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### **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

TÇE	7								TAL QUALITY											
TCE	Q		Com	pleted by PWS		ITY PARAM	ETER MON	ITOR	ING FORM 206	579	Com	ple	ted I	y Lab	oora	tor	,	7.16	200	
	DIMO N			pieced by FW.	(or Agent)				Labor	atory Name:	Envirodyne Laborat						1			
	PWS Name:	Fort E	Bend MUD #192						Labor	atory Name.	Envirouyne Laborat	.0110	, , ,		_	_		4		
	PWS ID#:	TX 079	90553						TCI	Q Lab ID #:	TX-288		70							
	PWS Address:	70									11011 Brooklet Dr #230									
	PWS Contact:	Mike	Thornhill						Laborate	ory Address:	Houston, TX 77099									
PWS Con	tact Phone #:	832-4	490-1507						Laborat	ory Contact:	Laura Bonjonia									
Inhibi	tor or Stablizer l	1000	Phosphate	Silica		Calcium car	bonate													
TI	REATMENT		Alkalinity Dosage Rate:	Inhibitor Dos	age Rate:				Laboratory Co	ntact Phone #:	281-568-7880							1.2		8
				Sample Infor				***			Parameters Requeste	d: A	nalvs	es are	e rec	uire	d for	the r	aram	neters
		Type (√): X		X Accredited		3rd Party Co.	ntractor> L	AR ID	AL TX-288		checked. * If inhibitors of these parameters should	onta	ining	g phos	phat	te or	silic	a are	used	, then
	Sample Colle	AND DESCRIPTIONS OF THE PARTY O	Public Water System  Are temperature and pH included	TO SOME OF THE PARTY OF	-				in the field within 15 m	inutes of sample	these parameters should	u uis		ise.		ССР		9 011		
Temp	perature and pH	(Y or N): 1	Laboratory Approval Form on file	at the TCEQ?		collection?		Т				Т			T	Т		T	T	
				Sample 0	Collection	Field Mea	surements	145				7	0	1064)	(2)		035)			O-Phosphate (1044) *
	Sample Point ID							cement?				(192	(1919	(1017) wity (10	s (191	(8)	ese (1	(1052	30)	ohate 049)
Facility ID (e.g. DS01,	(e.g. DSTWQP,			Date	Time - 24 hr			Replace	Original Sample	Original Sample Date		Alkalinity (1927)	Calcium (1919)	Chloride (1017) Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052) Sulfate (1055)	S (19	Phosp ica (1
PBCU001)	EWQP)		Sample Location	(MMDDYY)	(ннмм)	pH	Temp (°C)	8 S	ID#		Lab Sample ID	Ak	Sa	5 8	포	Iro	Ma	S S	3   2	0 18
PBCU001	EWQP	7906 Mes	squite Hill Ln, Sugarland	2-26-19	8:29	7.38	17.6				198 7045-01	<b>√</b>	√	<b>√</b> √	′ √	<b>√</b>	<b>V</b>	٧ ·	/ \	
DS01	DSTWQP	302 Arb	oor Ranch Cir	2-26-19	8:20	7.27	17.0		-		1983045-02	<b>√</b>	<b>√</b>	<b>√</b> √	′ √	<b>√</b>	√	٧ ·	/ \	
												<b>√</b>	V	√ √	′ √	\   \	<b>√</b>	٧ ·	/ \	Ш
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												22.	<b>V</b>	√ v			<b>V</b>	√ \	/ \	
Parameters. This	includes, but not	limited to the	ue and correct and sites selected for measurement of pH and temperati	or sampling follow ture immediately up	the instructions in on collection, Fal	the TCEQ Monit sification of this	oring and Sam form or tamper	ple Colle	ection Guidance for W water samples is a c	ater Quality rime punishable	Sample  Samples received unpres			ns Upoi		ceipt	1	Ambie	ent	
A service service			de, Title 8, Chapter 37.10)		2 000	anization			Date		Rejection Code (if applicable				tual /		ected	3.	6/	7.8
0.	Pized PWS Repres	2/- For		0/	/	Envirad	440	8.	2-26	79	Date & Time of Sample Preservatio (Acidified): 2 27/19	3			ermon				2+	
Chain of Custo	ody		1	Date/Time:		ned By Courier (	The state of the s	Charle		Date/Time:	1700 Laboratory Comments:						À			/
Relinguished By	oignature)	( 1/		2-2619		ica by courier (	o.gnatare)													
Received By Cour	ier (Signature)	1		Date/Time:	Receive	By Lab (Signa	ture)	1	0	Date/Time:	S									
CEQ 20679 (Rev	(01/2018)	The sales of the					1					OT.		USP (III)		XI W	-37			AVT U.S