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

07 March 2019

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

BCMUD #55 - WQP

Enclosed are the results of analyses for samples received by the laboratory on 25-Feb-19 13:50. 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
Project Manager

Certificate No: T104704265-18-14

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Client:	Si Environmental, LLC
Project:	BCMUD #55 - WQP
Work Order:	19B2989
PWS ID:	TX0200659

Reported:
07-Mar-19 12:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
EWQP	PBCU001 - 10330 COUNTY ROAD 65	19B2989-01	Water	25-Feb-19 10:04	25-Feb-19 13:50
DSTWQP	9527 SPRING COURT	19B2989-02	Water	25-Feb-19 09:56	25-Feb-19 13:50

Envirodyne Laboratories, Inc.

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PBCU001 - 10330 COUNTY ROAD 65

19B2989-01 (Water) Sampled: 25-Feb-19 10:04

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Field Analysis										
pH	**7.26**		SU	1	B9B3097	25-Feb-19	25-Feb-19 10:04	SM4500H+ B	CCC	
Temperature	**23.5**	10.0	°C	1	B9B3097	25-Feb-19	25-Feb-19 10:04	SM2550 B	CCC	
Wet Chemistry										
Alkalinity (m) as CaCO3	**289**	20.0	mg/L	1	B9B3414	28-Feb-19	07-Mar-19 08:45	SM 2320 B	PT	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B9B3414	28-Feb-19	07-Mar-19 08:45	SM 2320 B	PT	
Total Alkalinity as CaCO3	**289**	20.0	mg/L	1	[CALC]	28-Feb-19	07-Mar-19 08:45	[CALC]	PT	
Conductivity	**1140**	30	uS/cm	1	B9C0460	05-Mar-19	05-Mar-19 14:00	SM2510 B	MES	
TDS	**602**	10.0	mg/L	1	B9C0116	01-Mar-19	01-Mar-19 15:53	SM2540 C	JCR	
Total Metals by ICP										
Calcium	**22.8**	0.14	mg/L	2	B9C0456	01-Mar-19	04-Mar-19 12:50	EPA 200.7	TS	
Total Hardness as CaCO3	**79.5**	1.58	mg/L	2	[CALC]	01-Mar-19	04-Mar-19 12:51	SM 2340B	TS	
Iron	**0.354**	0.0037	mg/L	1	B9C0452	01-Mar-19	04-Mar-19 14:42	EPA 200.7	TS	
Magnesium	**5.51**	0.30	mg/L	2	B9C0456	01-Mar-19	04-Mar-19 12:51	EPA 200.7	TS	
Manganese	**0.0171**	0.0005	mg/L	1	B9C0452	01-Mar-19	04-Mar-19 14:42	EPA 200.7	TS	
Sodium	**223**	0.06	mg/L	2	B9C0456	01-Mar-19	04-Mar-19 12:50	EPA 200.7	TS	

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9527 SPRING COURT

19B2989-02 (Water) Sampled: 25-Feb-19 09:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Field Analysis										
pH	**7.40**		SU	1	B9B3097	25-Feb-19	25-Feb-19 09:56	SM4500H+ B	CCC	
Temperature	**18.3**	10.0	°C	1	B9B3097	25-Feb-19	25-Feb-19 09:56	SM2550 B	CCC	
Wet Chemistry										
Alkalinity (m) as CaCO3	**287**	20.0	mg/L	1	B9B3414	28-Feb-19	07-Mar-19 08:45	SM 2320 B	PT	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B9B3414	28-Feb-19	07-Mar-19 08:45	SM 2320 B	PT	
Total Alkalinity as CaCO3	**287**	20.0	mg/L	1	[CALC]	28-Feb-19	07-Mar-19 08:45	[CALC]	PT	
Conductivity	**1150**	30	uS/cm	1	B9C0460	05-Mar-19	05-Mar-19 14:00	SM2510 B	MES	
TDS	**644**	10.0	mg/L	1	B9C0116	01-Mar-19	01-Mar-19 15:53	SM2540 C	JCR	
Total Metals by ICP										
Calcium	**23.2**	0.14	mg/L	2	B9C0456	01-Mar-19	04-Mar-19 12:52	EPA 200.7	TS	
Total Hardness as CaCO3	**81.2**	1.58	mg/L	2	[CALC]	01-Mar-19	04-Mar-19 12:52	SM 2340B	TS	
Iron	**0.125**	0.0037	mg/L	1	B9C0452	01-Mar-19	04-Mar-19 14:45	EPA 200.7	TS	
Magnesium	**5.67**	0.30	mg/L	2	B9C0456	01-Mar-19	04-Mar-19 12:52	EPA 200.7	TS	
Manganese	**0.0066**	0.0005	mg/L	1	B9C0452	01-Mar-19	04-Mar-19 14:45	EPA 200.7	TS	
Sodium	**227**	0.06	mg/L	2	B9C0456	01-Mar-19	04-Mar-19 12:52	EPA 200.7	TS	

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Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9B3414 - Inorganics										
Blank (B9B3414-BLK1)				Prepared: 28-Feb-19 Analyzed: 07-Mar-19						
Alkalinity (m) as CaCO3	<20.0	20.0	mg/L							
Alkalinity (p) as CaCO3	<20.0	20.0	"							
LCS (B9B3414-BS1)				Prepared: 28-Feb-19 Analyzed: 07-Mar-19						
Alkalinity (m) as CaCO3	55.0		mg/L	50.0		110	90-110			
Alkalinity (p) as CaCO3	47.0		"	50.0		94.0	90-110			
Duplicate (B9B3414-DUP1)		**Source: 19B2828-01**		Prepared: 28-Feb-19 Analyzed: 07-Mar-19						
Alkalinity (m) as CaCO3	258	20.0	mg/L		254			1.56	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: 19B2728-01**		Prepared & 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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9C0460 - Inorganics										
Reference (B9C0460-SRM1)				Prepared & Analyzed: 05-Mar-19						
Conductivity	31.7		uS/cm	30.0		106	0-200			

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07-Mar-19 12:30

Total Metals by ICP - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9C0452 - Metals - EPA 200.2										
Blank (B9C0452-BLK1)				Prepared: 01-Mar-19 Analyzed: 04-Mar-19						
Manganese	<0.0005	0.0005	mg/L							
Iron	<0.0037	0.0037	"							
LCS (B9C0452-BS1)				Prepared: 01-Mar-19 Analyzed: 04-Mar-19						
Manganese	261		ug/L	250		104	85-115			
Iron	263		"	250		105	85-115			
Matrix Spike (B9C0452-MS1)		**Source: 19B3045-01**		Prepared: 01-Mar-19 Analyzed: 04-Mar-19						
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)		**Source: 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 Analyzed: 04-Mar-19						
Magnesium	<0.15	0.15	mg/L							
Sodium	<0.03	0.03	"							
Calcium	<0.07	0.07	"							
LCS (B9C0456-BS1)				Prepared: 01-Mar-19 Analyzed: 04-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

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9C0456 - Metals - EPA 200.2										
Matrix Spike (B9C0456-MS1)	**Source: 19B3045-01**			Prepared: 01-Mar-19 Analyzed: 04-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: 19B3045-01**			Prepared: 01-Mar-19 Analyzed: 04-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.

Kyle Chernosky For Itzel Dominguez, Project Manager

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)

PWS Name:	Brazoria County MUD #55	**Laboratory Name:**	Envirodyne Laboratories, Inc.
PWS ID#:	TX 0200659	**TCEQ Lab ID #:**	TX-288
PWS Address:		**Laboratory Address:**	11011 Brooklet Dr #230
PWS Contact:	Mike Thornhill		Houston, TX 77099
PWS Contact Phone #:	832-490-1507	**Laboratory Contact:**	Laura Bonjonia
Inhibitor or Stablizer Used (√):	[ ] Phosphate [ ] Silica [ ] Calcium carbonate		
TREATMENT	**Alkalinity Dosage Rate:**	**Inhibitor Dosage Rate:**	**Laboratory Contact Phone #:** 281-568-7880

Completed by Laboratory

Sample Information

Sample Type (√):	X	Compliance		Non-compliance		
Sample Collector (√):		Public Water System	X	Accredited Lab		3rd Party Contractor --> LAB ID AL TX-288
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) *
PBCU001	EWQP	10330 County Road 65	2-25-19	10:04	7.26	23.5				19B2989-01	√	√	√	√	√	√	√	√	√	√		
DS01	DSTWQP	9527 Spring Court	2-25-19	9:56	7.40	18.3				19B2989-02	√	√	√	√	√	√	√	√	√	√		
											√	√	√	√	√	√	√	√	√	√		
											√	√	√	√	√	√	√	√	√	√		
											√	√	√	√	√	√	√	√	√	√		
											√	√	√	√	√	√	√	√	√	√		

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
Craig Crofton		Envirodyne	2-25-19

Chain of Custody

Relinquished By (Signature)	Date/Time:	Relinquished By Courier (Signature)	Date/Time:
	2-25-19 13:50		
Received By Courier (Signature)	**Date/Time:**	**Received By Lab (Signature)**	**Date/Time:**
			2/25/19 1350

Sample Conditions Upon Receipt (√)

√ Samples received unpreserved?	√ Iced	[ ] Ambient	
Rejection Code (if applicable):		Actual / Corrected sample temperature:	3.9/3.1
Date & Time of Sample Preservation (Acidified): 2/27/19 @ 1700		Thermometer ID #:	IR#4

Laboratory Comments:

TCEQ 20679 (Rev 01/2018)