



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

30 November 2018

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 09-Nov-18 14:20. 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,

A handwritten signature in blue ink, appearing to read 'K. Chernosky'.

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: 18K1189
PWS ID: TX0200659

Reported:
30-Nov-18 13:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
EWQP	PBCU001 - 10330 COUNTY ROAD 65	18K1189-01	Water	09-Nov-18 09:35	09-Nov-18 14:20
DSTWQP	9527 SPRING COURT	18K1189-02	Water	09-Nov-18 09:25	09-Nov-18 14:20

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PBCU001 - 10330 COUNTY ROAD 65
18K1189-01 (Water) Sampled: 09-Nov-18 09:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Field Analysis

pH	7.45		SU	1	B8K1404	09-Nov-18	09-Nov-18 09:35	SM4500H+ B	BKT	
Temperature	24.0	10.0	°C	1	B8K1404	09-Nov-18	09-Nov-18 09:35	SM2550 B	BKT	

Wet Chemistry

Alkalinity (m) as CaCO ₃	384	20	mg/L	1	B8K1667	13-Nov-18	15-Nov-18 14:45	SM 2320 B	JMM	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8K1667	13-Nov-18	15-Nov-18 14:45	SM 2320 B	JMM	
Total Alkalinity as CaCO ₃	384	20	mg/L	1	[CALC]	13-Nov-18	15-Nov-18 14:45	[CALC]	JMM	
Conductivity	1160	30	uS/cm	1	B8K1813	14-Nov-18	14-Nov-18 12:10	SM2510 B	AT	
TDS	594	10.0	mg/L	1	B8K1902	14-Nov-18	14-Nov-18 15:56	SM2540 C	JCR	

Total Metals by ICP

Calcium	22.3	0.07	mg/L	1	B8K3754	19-Nov-18	20-Nov-18 17:32	EPA 200.7	TS	
Total Hardness as CaCO ₃	77.1	0.79	mg/L	1	[CALC]	19-Nov-18	20-Nov-18 17:32	SM 2340B	TS	
Iron	0.466	0.0037	mg/L	1	B8K2672	19-Nov-18	20-Nov-18 14:00	EPA 200.7	TS	
Magnesium	5.19	0.15	mg/L	1	B8K3754	19-Nov-18	20-Nov-18 17:32	EPA 200.7	TS	
Manganese	0.0250	0.0005	mg/L	1	B8K2672	19-Nov-18	20-Nov-18 14:00	EPA 200.7	TS	
Sodium	211	0.03	mg/L	1	B8K3754	19-Nov-18	20-Nov-18 17:32	EPA 200.7	TS	

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9527 SPRING COURT
18K1189-02 (Water) Sampled: 09-Nov-18 09:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Field Analysis

pH	7.40		SU	1	B8K1404	09-Nov-18	09-Nov-18 09:25	SM4500H+ B	BKT	
Temperature	21.0	10.0	°C	1	B8K1404	09-Nov-18	09-Nov-18 09:25	SM2550 B	BKT	

Wet Chemistry

Alkalinity (m) as CaCO ₃	368	20	mg/L	1	B8K1667	13-Nov-18	15-Nov-18 14:45	SM 2320 B	JMM	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8K1667	13-Nov-18	15-Nov-18 14:45	SM 2320 B	JMM	
Total Alkalinity as CaCO ₃	368	20	mg/L	1	[CALC]	13-Nov-18	15-Nov-18 14:45	[CALC]	JMM	
Conductivity	1180	30	uS/cm	1	B8K1813	14-Nov-18	14-Nov-18 12:10	SM2510 B	AT	
TDS	610	10.0	mg/L	1	B8K1902	14-Nov-18	14-Nov-18 15:56	SM2540 C	JCR	

Total Metals by ICP

Calcium	21.6	0.07	mg/L	1	B8K3754	19-Nov-18	20-Nov-18 17:34	EPA 200.7	TS	
Total Hardness as CaCO ₃	74.9	0.79	mg/L	1	[CALC]	19-Nov-18	20-Nov-18 17:34	SM 2340B	TS	
Iron	0.0775	0.0037	mg/L	1	B8K2672	19-Nov-18	20-Nov-18 14:03	EPA 200.7	TS	
Magnesium	5.13	0.15	mg/L	1	B8K3754	19-Nov-18	20-Nov-18 17:34	EPA 200.7	TS	
Manganese	0.0037	0.0005	mg/L	1	B8K2672	19-Nov-18	20-Nov-18 14:03	EPA 200.7	TS	
Sodium	205	0.03	mg/L	1	B8K3754	19-Nov-18	20-Nov-18 17:34	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
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Batch B8K1667 - Inorganics

Blank (B8K1667-BLK1)

Prepared: 13-Nov-18 Analyzed: 15-Nov-18

Alkalinity (m) as CaCO ₃	<20	20	mg/L
Alkalinity (p) as CaCO ₃	<20	20	"

LCS (B8K1667-BS1)

Prepared: 13-Nov-18 Analyzed: 15-Nov-18

Alkalinity (m) as CaCO ₃	55		mg/L	50.0	110	90-110
Alkalinity (p) as CaCO ₃	55		"	50.0	110	90-110

Duplicate (B8K1667-DUP1)

Source: 18K1179-01

Prepared: 13-Nov-18 Analyzed: 15-Nov-18

Alkalinity (m) as CaCO ₃	266	20	mg/L	294		10.0	20
Alkalinity (p) as CaCO ₃	<20	20	"	<20		0	20

Batch B8K1813 - Inorganics

Blank (B8K1813-BLK1)

Prepared & Analyzed: 14-Nov-18

Conductivity	<30	30	uS/cm
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Duplicate (B8K1813-DUP1)

Source: 18K0988-02

Prepared & Analyzed: 14-Nov-18

Conductivity	1060	30	uS/cm	876		18.5	20
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Reference (B8K1813-SRM1)

Prepared & Analyzed: 14-Nov-18

Conductivity	184		uS/cm	180	102	0-200
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Batch B8K1902 - Inorganics

Blank (B8K1902-BLK1)

Prepared & Analyzed: 14-Nov-18

TDS	<10.0	10.0	mg/L
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PWS ID: TX0200659

Reported:
30-Nov-18 13:45

Wet Chemistry - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8K1902 - Inorganics

Duplicate (B8K1902-DUP1)

Source: 18K0619-01

Prepared & Analyzed: 14-Nov-18

TDS	422	10.0	mg/L		416			1.43	20	
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PWS ID: TX0200659

Reported:
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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
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Batch B8K2672 - Metals - EPA 200.2

Blank (B8K2672-BLK1)

Prepared: 19-Nov-18 Analyzed: 20-Nov-18

Manganese	<0.0005	0.0005	mg/L
Iron	<0.0037	0.0037	"

LCS (B8K2672-BS1)

Prepared: 19-Nov-18 Analyzed: 20-Nov-18

Iron	243		ug/L	250		97.2	85-115
Manganese	247		"	250		98.9	85-115

Matrix Spike (B8K2672-MS1)

Source: 18K0872-11

Prepared: 19-Nov-18 Analyzed: 20-Nov-18

Manganese	0.476	0.0005	mg/L	0.500	ND	95.1	70-130
Iron	0.483	0.0037	"	0.500	0.0155	93.5	70-130

Matrix Spike Dup (B8K2672-MSD1)

Source: 18K0872-11

Prepared: 19-Nov-18 Analyzed: 20-Nov-18

Manganese	0.479	0.0005	mg/L	0.500	ND	95.9	70-130	0.762	20
Iron	0.486	0.0037	"	0.500	0.0155	94.0	70-130	0.584	20

Batch B8K3754 - Metals - EPA 200.2

Blank (B8K3754-BLK1)

Prepared: 19-Nov-18 Analyzed: 20-Nov-18

Magnesium	<0.15	0.15	mg/L
Calcium	<0.07	0.07	"
Sodium	<0.03	0.03	"

LCS (B8K3754-BS1)

Prepared: 19-Nov-18 Analyzed: 20-Nov-18

Magnesium	20.0		mg/L	20.0		100	85-115
Sodium	20.0		"	20.0		100	85-115
Calcium	20.1		"	20.0		100	85-115

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30-Nov-18 13:45

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
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Batch B8K3754 - Metals - EPA 200.2

Matrix Spike (B8K3754-MS1) **Source: 18K0872-11** Prepared: 19-Nov-18 Analyzed: 20-Nov-18

Calcium	77.0	0.07	mg/L	20.0	57.0	100	70-130			
Magnesium	28.1	0.15	"	20.0	8.38	98.7	70-130			
Sodium	51.8	0.03	"	20.0	31.5	102	70-130			

Matrix Spike Dup (B8K3754-MSD1) **Source: 18K0872-11** Prepared: 19-Nov-18 Analyzed: 20-Nov-18

Sodium	51.7	0.03	mg/L	20.0	31.5	101	70-130	0.183	20	
Magnesium	28.2	0.15	"	20.0	8.38	98.9	70-130	0.209	20	
Calcium	77.0	0.07	"	20.0	57.0	100	70-130	0.0417	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

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)										Completed by Laboratory																															
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 Stabilizer Used (✓):		Phosphate		Silica		Calcium carbonate			Laboratory Contact Phone #:						281-568-7880																										
TREATMENT		Alkalinity Dosage Rate:		Inhibitor Dosage Rate:																																					
Sample Information										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.																															
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?																															
Facility ID (e.g. DS01, PBCU001)		Sample Point ID (e.g. DSTWQP, EWQP)		Sample Location		Sample Collection		Field Measurements		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		11-9-18 0935		7.45 24								18K1189-01		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
DS01		DSTWQP		9527 Spring Court		11-9-18 0925		7.40 21								18K1189-02		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
																		✓		✓		✓		✓		✓		✓		✓		✓		✓							
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																		✓		✓		✓		✓		✓		✓		✓		✓		✓							
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)										Sample Conditions Upon Receipt (✓)																															
Name of Authorized PWS Representative (Print)					Signature					Organization					Date					Rejection Code (if applicable):					Actual / Corrected sample temperature:					Ambient											
Brazoria County					Brazoria County										11-9-18										4.1/4.1 18K																
Chain of Custody					Relinquished By (Signature)					Date/Time: 11-9-18 1420					Relinquished By Courier (Signature)					Date/Time:					Date & Time of Sample Preservation (Acidified): 11/9/18 @ 1000					Thermometer ID #:											
					Received By Courier (Signature)					Date/Time: 11-9-18 1420					Received By Lab (Signature)					Date/Time: 11/9/18 1420					Laboratory Comments:																
TCEQ 20679 (Rev 01/2018)																																									