



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

27 March 2018

Water Utility Services

Steve Grychka

21617 Rhodes Rd

Spring, TX 77383

HCMUD #530 - WQP

Enclosed are the results of analyses for samples received by the laboratory on 20-Mar-18 15:07. 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 8

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 that reads 'Laura Bonjonia'.

Laura Bonjonia For Monica Smith
Project Manager



Certificate No: T104704265-17-13



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Client: Water Utility Services
Project: HCMUD #530 - WQP
Work Order: 18C2376
PWS ID: TX1013530

Reported:
27-Mar-18 14:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
PBCU001	PBCU001 - 20818 SHERWOOD PASS	18C2376-01	Water	20-Mar-18 09:41	20-Mar-18 15:07
DSTWQP	DS01 - 20622 EAGLES REST	18C2376-02	Water	20-Mar-18 09:51	20-Mar-18 15:07

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Laura Bonjonia For Monica Smith, Project Manager



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PBCU001 - 20818 SHERWOOD PASS
18C2376-01 (Water) Sampled: 20-Mar-18 09:41

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

pH	7.38		SU	1	B8C2844	20-Mar-18	20-Mar-18 09:41	SM4500H+ B	LLB	
Temperature	24.8	10.0	°C	1	B8C2844	20-Mar-18	20-Mar-18 09:41	SM2550 B	LLB	

Wet Chemistry

Alkalinity (m) as CaCO ₃	300	20	mg/L	1	B8C3018	22-Mar-18	22-Mar-18 11:45	SM 2320 B	JAS	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8C3018	22-Mar-18	22-Mar-18 11:45	SM 2320 B	JAS	
Total Alkalinity as CaCO ₃	300	20	mg/L	1	[CALC]	22-Mar-18	22-Mar-18 11:45	[CALC]	JAS	
Conductivity	785	10	uS/cm	1	B8C3011	22-Mar-18	22-Mar-18 10:30	SM2510 B,2011	JAS	
OrthoPhosphate as P	<0.10	0.10	mg/L	1	B8C3242	21-Mar-18	21-Mar-18 17:03	SM4500-P E	JAS	
TDS	492	10.0	mg/L	1	B8C3142	22-Mar-18	22-Mar-18 14:32	SM2540 C	RH	

Total Metals by ICP

Calcium	14.9	2.00	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 10:07	EPA 200.7	XQH	
Total Hardness as CaCO ₃	54.2	13.2	mg/L	1	[CALC]	21-Mar-18	22-Mar-18 10:07	SM 2340B	XQH	
Iron	0.196	0.0018	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 13:07	EPA 200.7	XQH	
Magnesium	4.13	2.00	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 10:07	EPA 200.7	XQH	
Manganese	0.0051	0.0004	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 13:07	EPA 200.7	XQH	
Sodium	166	2.0	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 10:07	EPA 200.7	XQH	

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27-Mar-18 14:38

DS01 - 20622 EAGLES REST
18C2376-02 (Water) Sampled: 20-Mar-18 09:51

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

Field Analysis

pH	7.91		SU	1	B8C2844	20-Mar-18	20-Mar-18 09:51	SM4500H+ B	LLB	
Temperature	22.8	10.0	°C	1	B8C2844	20-Mar-18	20-Mar-18 09:51	SM2550 B	LLB	

Wet Chemistry

Alkalinity (m) as CaCO ₃	340	20	mg/L	1	B8C3018	22-Mar-18	22-Mar-18 11:45	SM 2320 B	JAS	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8C3018	22-Mar-18	22-Mar-18 11:45	SM 2320 B	JAS	
Total Alkalinity as CaCO ₃	340	20	mg/L	1	[CALC]	22-Mar-18	22-Mar-18 11:45	[CALC]	JAS	
Conductivity	784	10	uS/cm	1	B8C3011	22-Mar-18	22-Mar-18 10:30	SM2510 B,2011	JAS	
OrthoPhosphate as P	<0.10	0.10	mg/L	1	B8C3242	21-Mar-18	21-Mar-18 17:03	SM4500-P E	JAS	
TDS	488	10.0	mg/L	1	B8C3142	22-Mar-18	22-Mar-18 14:32	SM2540 C	RH	

Total Metals by ICP

Calcium	15.0	2.00	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 10:09	EPA 200.7	XQH	
Total Hardness as CaCO ₃	54.5	13.2	mg/L	1	[CALC]	21-Mar-18	22-Mar-18 10:09	SM 2340B	XQH	
Iron	0.0482	0.0018	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 13:10	EPA 200.7	XQH	
Magnesium	4.16	2.00	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 10:09	EPA 200.7	XQH	
Manganese	0.0050	0.0004	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 13:10	EPA 200.7	XQH	
Sodium	167	2.0	mg/L	1	B8C3307	21-Mar-18	22-Mar-18 10:09	EPA 200.7	XQH	

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Work Order: 18C2376
PWS ID: TX1013530

Reported:
27-Mar-18 14:38

Wet Chemistry - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C3011 - Inorganics

Blank (B8C3011-BLK2)

Prepared & Analyzed: 22-Mar-18

Conductivity <10 10 uS/cm

Duplicate (B8C3011-DUP1)

Source: 18C2322-01

Prepared & Analyzed: 22-Mar-18

Conductivity 845 10 uS/cm 846 0.118 20

Reference (B8C3011-SRM1)

Prepared & Analyzed: 22-Mar-18

Conductivity 186 uS/cm 180 103 0-200

Batch B8C3018 - Inorganics

Blank (B8C3018-BLK1)

Prepared & Analyzed: 22-Mar-18

Alkalinity (m) as CaCO₃ <20 20 mg/L

Alkalinity (p) as CaCO₃ <20 20 "

LCS (B8C3018-BS1)

Prepared & Analyzed: 22-Mar-18

Alkalinity (m) as CaCO₃ 50 mg/L 50.0 100 80-120

Alkalinity (p) as CaCO₃ 55 " 50.0 110 80-120

Duplicate (B8C3018-DUP1)

Source: 18C2242-01

Prepared & Analyzed: 22-Mar-18

Alkalinity (m) as CaCO₃ 290 20 mg/L 280 3.51 20

Alkalinity (p) as CaCO₃ <20 20 " <20 0 20

Batch B8C3142 - Inorganics

Blank (B8C3142-BLK1)

Prepared & Analyzed: 22-Mar-18

TDS <10.0 10.0 mg/L

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PWS ID: TX1013530

Reported:
27-Mar-18 14:38

Wet Chemistry - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8C3142 - Inorganics										
Duplicate (B8C3142-DUP1)		Source: 18C2026-01		Prepared & Analyzed: 22-Mar-18						
TDS	544	10.0	mg/L		544			0.00	20	
Batch B8C3242 - Inorganics										
Blank (B8C3242-BLK1)		Prepared & Analyzed: 21-Mar-18								
OrthoPhosphate as P	<0.10	0.10	mg/L							
LCS (B8C3242-BS1)		Prepared & Analyzed: 21-Mar-18								
OrthoPhosphate as P	0.330		mg/L	0.333		99.1	80-120			
Matrix Spike (B8C3242-MS1)		Source: 18C2372-01		Prepared & Analyzed: 21-Mar-18						
OrthoPhosphate as P	0.330	0.10	mg/L	0.333	ND	99.0	80-120			
Matrix Spike Dup (B8C3242-MSD1)		Source: 18C2372-01		Prepared & Analyzed: 21-Mar-18						
OrthoPhosphate as P	0.340	0.10	mg/L	0.333	ND	102	80-120	2.99	20	

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Work Order: 18C2376
PWS ID: TX1013530

Reported:
27-Mar-18 14:38

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 B8C3307 - Metals - EPA 200.2

Blank (B8C3307-BLK1)

Prepared: 21-Mar-18 Analyzed: 22-Mar-18

Calcium	<2.00	2.00	mg/L
Magnesium	<2.00	2.00	"
Sodium	<2.0	2.0	"
Manganese	<0.0004	0.0004	"
Iron	<0.0018	0.0018	"

LCS (B8C3307-BS1)

Prepared: 21-Mar-18 Analyzed: 22-Mar-18

Iron	269		ug/L	250		107	85-115
Manganese	257		"	250		103	85-115
Calcium	20.5		mg/L	20.0		103	85-115
Magnesium	20.4		"	20.0		102	85-115
Sodium	20.3		"	20.0		101	85-115

Matrix Spike (B8C3307-MS1)

Source: 18C1686-05

Prepared: 21-Mar-18 Analyzed: 22-Mar-18

Calcium	66.6	2.00	mg/L	20.0	46.8	98.8	70-130
Iron	0.543	0.0018	"	0.500	0.0391	101	70-130
Magnesium	23.5	2.00	"	20.0	3.31	101	70-130
Manganese	0.511	0.0004	"	0.500	0.0157	99.1	70-130
Sodium	42.9	2.0	"	20.0	23.1	98.8	70-130

Matrix Spike Dup (B8C3307-MSD1)

Source: 18C1686-05

Prepared: 21-Mar-18 Analyzed: 22-Mar-18

Sodium	43.0	2.0	mg/L	20.0	23.1	99.5	70-130	0.331	20
Iron	0.546	0.0018	"	0.500	0.0391	101	70-130	0.523	20
Magnesium	23.6	2.00	"	20.0	3.31	101	70-130	0.392	20
Manganese	0.515	0.0004	"	0.500	0.0157	99.9	70-130	0.746	20
Calcium	66.5	2.00	"	20.0	46.8	98.5	70-130	0.0880	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.

A handwritten signature in blue ink that reads 'Laura Bonjonia'.

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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:	Harris County MUD 530	Laboratory Name:	Envirodyne Laboratories, Inc.
PWS ID #: TX	1013530	TCEQ Lab ID #:	TX-288
PWS Address:	17495 Village Green Houston, TX 77040	Laboratory Address:	11011 Brooklet Dr #230
PWS Contact:	Eric Thiry	Laboratory Address:	Houston, TX 77099
PWS Contact Phone #:	832-467-1599	Laboratory Contact:	Laura Bonjonia
Inhibitor or Stabilizer Used (✓):	Phosphate	Silica	Calcium carbonate
TREATMENT	Alkalinity Dosage Rate:	Inhibitor Dosage Rate:	Laboratory Contact Phone #:
			281-568-7880

Sample Information

Sample Type (✓):	✓ Compliance	Non-compliance
Sample Collector (✓):	Public Water System	Accredited Lab
Temperature and pH (Y or N):	✓ Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?	✓ Were temperature and pH measured in the field within 15 minutes of sample collection?
		3rd Party Contractor --> LAB ID AL TX02604

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		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) *
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)																
PBCU001	EWQP	20818 Sherwood Pass	03-20-18	9:41am	7.38	24.8	✓	17110477.01	11-08-17	18C2376-01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DS01	DSTWQP	20622 Eagles Rest	03-20-18	9:56am	7.91	22.8	✓	17110477.02	11-08-17	18C2376-02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
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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	✓ Samples received unpreserved?	✓ Iced	Ambient
Steve Grychka	[Signature]	Water Utility Services	3-20-18	Rejection Code (if applicable):	Actual / Corrected sample temperature:	
Chain of Custody				Date & Time of Sample Preservation (Acidified): 3/20/18 1427	Thermometer ID #:	6-75.8
Relinquished By (Signature)	Date/Time:	Relinquished By Courier (Signature)	Date/Time:	Laboratory Comments:		
[Signature]	3/20/18 1340	[Signature]				
Received By Courier (Signature)	Date/Time:	Received By Lab (Signature)	Date/Time:			
		[Signature]	3/20/18 13:40			