



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

08 October 2018

Water District Management (WDM)
c/o Myrtle Cruz, Inc. - Mary Jarmon
1621 Milam, (3rd Floor)
Houston, TX 77002

WHCMUD #7 - WQP

Enclosed are the results of analyses for samples received by the laboratory on 13-Sep-18 15:20. 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 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, appearing to read 'K. Chernosky'.

Kyle Chernosky For Itzel Dominguez
Project Manager



Certificate No: T104704265-18-14



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Client: Water District Management (WDM)
Project: WHCMUD #7 - WQP
Work Order: 18I1542
PWS ID: TX1012228

Reported:
08-Oct-18 10:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EWQP	PBCU001 - TRT-TAP - G1012228C - 20 18I1542-01	Water	13-Sep-18 12:48	13-Sep-18 15:20

Envirodyne Laboratories, Inc.

A handwritten signature in blue ink, appearing to read 'Kyl g', is written over a light blue rectangular background.

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Kyle Chernosky For Itzel Dominguez, Project Manager

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Work Order: 1811542
PWS ID: TX1012228

Reported:
08-Oct-18 10:45

PBCU001 - TRT-TAP - G1012228C - 20210 FRANZ RD
1811542-01 (Water) Sampled: 13-Sep-18 12:48

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

pH	7.51		SU	1	B8I1609	13-Sep-18	13-Sep-18 12:48	SM4500H+ B	MSB	
Temperature	23.0	10.0	°C	1	B8I1609	13-Sep-18	13-Sep-18 12:48	SM2550 B	MSB	

Wet Chemistry

Alkalinity (m) as CaCO ₃	202	20	mg/L	1	B8I2860	24-Sep-18	24-Sep-18 12:00	SM 2320 B	AT	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8I2860	24-Sep-18	24-Sep-18 12:00	SM 2320 B	AT	
Total Alkalinity as CaCO ₃	202	20	mg/L	1	[CALC]	24-Sep-18	24-Sep-18 12:00	[CALC]	AT	
Conductivity	517	10	uS/cm	1	B8I3596	28-Sep-18	05-Oct-18 17:21	SM2510 B	AT	
TDS	310	10.0	mg/L	1	B8I2075	18-Sep-18	18-Sep-18 16:48	SM2540 C	JCR	

Total Metals by ICP

Calcium	58.3	0.07	mg/L	1	B8J0924	02-Oct-18	03-Oct-18 13:46	EPA 200.7	JMM	
Total Hardness as CaCO ₃	164	0.79	mg/L	1	[CALC]	02-Oct-18	03-Oct-18 13:46	SM 2340B	JMM	
Iron	0.0134	0.0037	mg/L	1	B8J0920	02-Oct-18	03-Oct-18 18:19	EPA 200.7	JMM	
Magnesium	4.54	0.15	mg/L	1	B8J0924	02-Oct-18	03-Oct-18 13:46	EPA 200.7	JMM	
Manganese	<0.0005	0.0005	mg/L	1	B8J0920	02-Oct-18	03-Oct-18 18:19	EPA 200.7	JMM	
Sodium	33.2	0.03	mg/L	1	B8J0924	02-Oct-18	03-Oct-18 13:46	EPA 200.7	JMM	

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PWS ID: TX1012228

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08-Oct-18 10:45

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 B8I2075 - Inorganics

Blank (B8I2075-BLK1) Prepared & Analyzed: 18-Sep-18

TDS	<10.0	10.0	mg/L						
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Duplicate (B8I2075-DUP1) Source: 18I1354-01 Prepared & Analyzed: 18-Sep-18

TDS	600	10.0	mg/L		580		3.39	20	
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Batch B8I2860 - Inorganics

Blank (B8I2860-BLK1) Prepared & Analyzed: 24-Sep-18

Alkalinity (m) as CaCO ₃	<20	20	mg/L						
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Alkalinity (p) as CaCO ₃	<20	20	"						
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LCS (B8I2860-BS1) Prepared & Analyzed: 24-Sep-18

Alkalinity (m) as CaCO ₃	54		mg/L	50.0	108	80-120			
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Alkalinity (p) as CaCO ₃	50		"	50.0	100	80-120			
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Duplicate (B8I2860-DUP1) Source: 18H2983-09 Prepared & Analyzed: 24-Sep-18

Alkalinity (m) as CaCO ₃	227	20	mg/L		218		4.04	20	
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Alkalinity (p) as CaCO ₃	<20	20	"		<20		0	20	
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Batch B8I3596 - Inorganics

Blank (B8I3596-BLK1) Prepared: 28-Sep-18 Analyzed: 05-Oct-18

Conductivity	<10	10	uS/cm						
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Duplicate (B8I3596-DUP1) Source: 18I2294-01 Prepared: 28-Sep-18 Analyzed: 05-Oct-18

Conductivity	465	10	uS/cm		460		1.08	20	
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Work Order: 1811542
PWS ID: TX1012228

Reported:
08-Oct-18 10:45

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 B8I3596 - Inorganics

Reference (B8I3596-SRM1)

Prepared: 28-Sep-18 Analyzed: 05-Oct-18

Conductivity	181		uS/cm	180		101	0-200			
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PWS ID: TX1012228

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08-Oct-18 10:45

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 B8J0920 - Metals - EPA 200.2

Blank (B8J0920-BLK1)

Prepared: 02-Oct-18 Analyzed: 03-Oct-18

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

LCS (B8J0920-BS1)

Prepared: 02-Oct-18 Analyzed: 03-Oct-18

Iron	249		ug/L	250		99.7	85-115
Manganese	250		"	250		100	85-115

Matrix Spike (B8J0920-MS1)

Source: 18I2766-12

Prepared: 02-Oct-18 Analyzed: 03-Oct-18

Manganese	0.475	0.0005	mg/L	0.500	ND	95.0	70-130
Iron	0.478	0.0037	"	0.500	ND	95.7	70-130

Matrix Spike Dup (B8J0920-MSD1)

Source: 18I2766-12

Prepared: 02-Oct-18 Analyzed: 03-Oct-18

Manganese	0.480	0.0005	mg/L	0.500	ND	96.0	70-130	1.07	20
Iron	0.484	0.0037	"	0.500	ND	96.7	70-130	1.09	20

Batch B8J0924 - Metals - EPA 200.2

Blank (B8J0924-BLK1)

Prepared: 02-Oct-18 Analyzed: 03-Oct-18

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

LCS (B8J0924-BS1)

Prepared: 02-Oct-18 Analyzed: 03-Oct-18

Magnesium	19.9		mg/L	20.0		99.5	85-115
Sodium	20.2		"	20.0		101	85-115
Calcium	19.6		"	20.0		97.9	85-115

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Work Order: 1811542
PWS ID: TX1012228

Reported:
08-Oct-18 10:45

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 B8J0924 - Metals - EPA 200.2

Matrix Spike (B8J0924-MS1)

Source: 1812766-12

Prepared: 02-Oct-18 Analyzed: 03-Oct-18

Calcium	63.0	0.07	mg/L	20.0	44.6	92.2	70-130
Magnesium	25.6	0.15	"	20.0	5.85	98.8	70-130
Sodium	54.6	0.03	"	20.0	35.1	97.4	70-130

Matrix Spike Dup (B8J0924-MSD1)

Source: 1812766-12

Prepared: 02-Oct-18 Analyzed: 03-Oct-18

Sodium	56.0	0.03	mg/L	20.0	35.1	105	70-130	2.69	20
Magnesium	25.9	0.15	"	20.0	5.85	100	70-130	1.03	20
Calcium	64.8	0.07	"	20.0	44.6	101	70-130	2.84	20

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Work Order: 18I1542
PWS ID: TX1012228

Reported:
08-Oct-18 10:45

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, appearing to read 'Kyl g'.

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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: WEST HARRIS COUNTY MUD 7					Laboratory Name: Envirodyne Laboratories, Inc.																																																						
PWS ID #: TX 1012228					TCEQ Lab ID #: TX-288																																																						
PWS Address:					Laboratory Address: 11011 Brooklet Dr #230 Houston, TX 77099																																																						
PWS Contact: Sharon Salinas																																																											
PWS Contact Phone #: 281-376-8802					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										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																																											
PBCU001		EWQP		G1012228C - 20210 Franz Rd		Date (MMDDYY) 09/13/18		Time - 24 hr (HHMM) 1248		pH 7.51		Temp (°C) 23°						18I1542-01																																									
																		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) *																																									
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) <u>Makolun Bates</u>										Signature <u>[Signature]</u>										Organization <u>ECC</u>										Date <u>9/13/18</u>										Rejection Code (if applicable):										Actual / Corrected sample temperature: <u>52/53</u>									
Chain of Custody										Date/Time: <u>9-13-18/520</u>										Relinquished By Courier (Signature) <u>[Signature]</u>										Date/Time: <u>9/13/18</u>										Date & Time of Sample Preservation (Acidified): <u>09/13/18 @ 1600</u>										Thermometer ID #: <u>5204</u>									
Relinquished By (Signature) <u>[Signature]</u>										Received By Courier (Signature) <u>[Signature]</u>										Received By Lab (Signature) <u>[Signature]</u>										Date/Time: <u>9/13/18</u>										Laboratory Comments: <u>1520</u>																			