Analytical Report 583245

for

Envirodyne Laboratories, Inc

Project Manager: Laura Bonjonia

Water Quality

27-APR-18

Collected By: Client

4147 Greenbriar Dr.
Stafford, TX 77477

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

27-APR-18

Project Manager: **Laura Bonjonia**
Envirodyne Laboratories, Inc
11011 Brooklet, Ste. 230
Houston, TX 77099

Reference: XENCO Report No(s): **583245**
Water Quality
Project Address:

Laura Bonjonia:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 583245. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 583245 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

Sample Cross Reference 583245

Envirodyne Laboratories, Inc, Houston, TX

Water Quality

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PBCU001 3710 Brazos, Damon	W	04-19-18 07:12		583245-001
DS01 3618 Brazos St. Damon	W	04-19-18 07:05		583245-002

Client Name: Envirodyne Laboratories, Inc
Project Name: Water Quality

Project ID:
Work Order Number(s): *583245*

Report Date: *27-APR-18*
Date Received: *04/20/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 583245

Envirodyne Laboratories, Inc, Houston, TX

Water Quality

Sample Id: **PBCU001 3710 Brazos, Damon**
Matrix: Water
Date Received:04.20.18 15.32
Lab Sample Id: 583245-001
Date Collected: 04.19.18 07.12

Analytical Method: Inorganic Anions by EPA 300
Prep Method: E300P
Tech: MAB
% Moisture:
Analyst: MAB
Date Prep: 04.22.18 10.00
Seq Number: 3047584
SUB: TX104704215-18-24

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**305**	10.0	mg/L	04.22.18 18.21		20
Sulfate	14808-79-8	<0.500	0.500	mg/L	04.26.18 18.16	U	1

Certificate of Analytical Results 583245

Envirodyne Laboratories, Inc, Houston, TX

Water Quality

Sample Id: **DS01 3618 Brazos St. Damon**
Matrix: Water
Date Received:04.20.18 15.32
Lab Sample Id: 583245-002
Date Collected: 04.19.18 07.05

Analytical Method: Inorganic Anions by EPA 300
Prep Method: E300P
Tech: MAB
% Moisture:
Analyst: MAB
Date Prep: 04.22.18 10.00
Seq Number: 3047584
SUB: TX104704215-18-24

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**346**	10.0	mg/L	04.22.18 18.31		20
Sulfate	14808-79-8	<0.500	0.500	mg/L	04.26.18 18.27	U	1

Blank Summary 583245

Envirodyne Laboratories, Inc, Houston, TX

Water Quality

Sample Id: **7643107-1-BLK** Matrix: WATER

Lab Sample Id: **7643107-1-BLK**

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 04.22.18 10:00 **SUB: TX104704215-18-24**

Seq Number: 3047584

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.500	0.500		mg/L	04.22.18 13:10	U	1
Sulfate	14808-79-8	<0.500	0.500		mg/L	04.22.18 13:10	U	1

QC Summary 583245

Envirodyne Laboratories, Inc

Water Quality

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P

Seq Number: 3047584 Matrix: Water Date Prep: 04.22.18

MB Sample Id: 7643107-1-BLK LCS Sample Id: 7643107-1-BKS LCSD Sample Id: 7643107-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.500	10.0	10.2	102	10.2	102	90-110	0	20	mg/L	04.22.18 13:21	
Sulfate	<0.500	10.0	10.5	105	10.5	105	90-110	0	20	mg/L	04.22.18 13:21	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P

Seq Number: 3047584 Matrix: Water Date Prep: 04.22.18

Parent Sample Id: 582935-001 MS Sample Id: 582935-001 S MSD Sample Id: 582935-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	140	200	345	103	345	103	90-110	0	20	mg/L	04.22.18 14:04	
Sulfate	188	200	403	108	408	110	90-110	1	20	mg/L	04.22.18 14:04	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P

Seq Number: 3047584 Matrix: Water Date Prep: 04.22.18

Parent Sample Id: 583128-001 MS Sample Id: 583128-001 S MSD Sample Id: 583128-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.6	200	268	105	266	104	90-110	1	20	mg/L	04.22.18 16:55	
Sulfate	199	200	390	96	381	91	90-110	2	20	mg/L	04.22.18 16:55	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO scope of NELAC accreditation

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

583245 E A209406

Page _____ Of _____

TCEQ Certification # T104704265

Analysis Request and Chain of Custody Record

Name: Envirodyne Laboratories Inc.
Address: 11011 Brooklet Dr. Ste 230
City: Houston, TX 77099
Contact: Laura Bonjonia
Phone: 281-568-7880 Fax: 281-568-8004
Project No. Client/Project

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	PBCU001 3710 BRAZOS, DAMON	4-19-18 07:12			250ml/p	Liquid	ICE	Chloride / SULFATE				
	DS01 3618 BRAZOS ST, DAMON	4-19-18 0705			1	1	1	1				
								* 5 DAY TAT				

Samplers: (Signature)

Affiliation

Relinquished by: (Signature) Fridge #8 Date: 4-20-18 Time: 1500

Received by: (Signature) Date: 4-20-18 Time: 1500 Seal Intact?

Relinquished by: (Signature) Date: 4-20-18 Time: 1532

Received by: (Signature) Date: Time: Seal Intact?

Relinquished by: (Signature) Date: Time:

Received by Lab: (Signature) Date: Time: Seal Intact?

Remarks: SUB TO XENCO

FLOW: _____
Meter Reading: _____
Cl_2 Residual: _____
Mn Correction: _____
Cl_2 Corrected _____

IR ID:HOU-068 C/F: -0.1
Temp: 1.2 Corrected: 1.1

Data Results To:
1.

Site Representative: Date: Time:

Laboratory No.

Final 1.000

Page 10 of 12

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)		Completed by Laboratory	
PWS Name:	BRAZORIA COUNTY FWSD 1 DAMON	Laboratory Name:	Envirodyne Laboratories, Inc.
PWS ID#:	TX 0200025	TCEQ Lab ID #:	TX-288
PWS Address:	3617 BRAZOS ST, DAMON, TX 77430	Laboratory Address:	11011 Brooklet Dr #230
PWS Contact:	Harrison Williams		Houston, TX 77099
PWS Contact Phone #:	713-852-7568	Laboratory Contact:	Laura Bonjonia
Inhibitor or Stablizer Used (√):	X Phosphate; Silica; Calcium carbonate	Laboratory Contact Phone #:	281-568-7880
TREATMENT	Alkalinity Dosage Rate:	Inhibitor Dosage Rate:	0.5 mg/L

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	3710 BRAZOS, DAMON	4-19-18	0[illegible]12	7.34	23					√	√	√	√	√	√	√	√	√	√	√	
DS01	DSTWQP	3618 BRAZOS ST, DAMON			7.49	23					√	√	√	√	√	√	√	√	√	√	√	
											√	√	√	√	√	√	√	√	√	√		
											√	√	√	√	√	√	√	√	√	√		
											√	√	√	√	√	√	√	√	√	√		
											√	√	√	√	√	√	√	√	√	√		

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
[illegible]	[illegible]	[illegible]	[illegible]

Sample Conditions Upon Receipt (√)

Samples received unpreserved?		Iced	√	Ambient	
Rejection Code (if applicable):		Actual / Corrected sample temperature:	2.1/1.9		
Date & Time of Sample Preservation (Acidified):		Thermometer ID #:	[illegible]		

Chain of Custody

Relinquished By (Signature)	Date/Time:	Relinquished By Courier (Signature)	Date/Time:
[illegible]	[illegible]		
Received By Courier (Signature)	Date/Time:	Received By Lab (Signature)	Date/Time:
		[illegible]	[illegible]

Laboratory C[illegible]

IR ID:HOU-068 C/F: -0.1

Temp: 1.2 Corrected: 1.1

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: Envirodyne Laboratories, Inc

Date/ Time Received: 04/20/2018 03:32:00 PM

Work Order #: 583245

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR:HOU068

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**No**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: MPG

PH Device/Lot#: LOT#10BDH4471

Checklist completed by: Maria Paula Guerra Date: 04/20/2018

Checklist reviewed by: Debbie Simmons Date: 04/23/2018