



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

03 January 2022

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

FBMUD #182 - WQP

Enclosed are the results of analyses for samples received by the laboratory on 15-Dec-21 14:40. 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 11

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 Sarah Chaplain
Client Services Representative



Certificate No: T104704265-20-18



Envirodyne Laboratories, Inc
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Client: Si Environmental, LLC
Project: FBMUD #182 - WQP
Work Order: 21L2458
PWS ID: TX0790500

Reported:
03-Jan-22 08:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
EWQP	29023 1/2 DRYANDER FOREST CT	21L2458-01	Water	15-Dec-21 09:07	15-Dec-21 14:40
DSTWQP	3826 DAINTREE PARK DR	21L2458-02	Water	15-Dec-21 08:11	15-Dec-21 14:40
DSTWQP	3326 COLORADO BEND DR	21L2458-03	Water	15-Dec-21 08:05	15-Dec-21 14:40

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Reported:
03-Jan-22 08:30

29023 1/2 DRYANDER FOREST CT
21L2458-01 (Water) Sampled: 15-Dec-21 09:07

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

Field Analysis

pH	7.84		SU	1	B1L2157	15-Dec-21	15-Dec-21 09:07	SM4500H+ B	BKT	
Temperature	26.0	0.0	°C	1	B1L2157	15-Dec-21	15-Dec-21 09:07	SM2550 B	BKT	

Wet Chemistry

Alkalinity (m) as CaCO ₃	192	20.0	mg/L	1	B1L2489	17-Dec-21	17-Dec-21 11:59	SM 2320 B	JPC	
Alkalinity (p) as CaCO ₃	<20.0	20.0	mg/L	1	B1L2489	17-Dec-21	17-Dec-21 11:59	SM 2320 B	JPC	
Total Alkalinity as CaCO ₃	192	20.0	mg/L	1	[CALC]	17-Dec-21	17-Dec-21 11:59	[CALC]	JPC	
Chloride	60.0	12.0	mg/L	4	B1L2270	16-Dec-21	16-Dec-21 13:01	SM4500 Cl-B	JPC	
Conductivity at 25 C	582	30	umho/cm	1	B1L2226	16-Dec-21	16-Dec-21 15:39	SM2510 B	JPC	
OrthoPhosphate as P	0.50	0.10	mg/L	1	B1L2919	15-Dec-21	15-Dec-21 16:50	SM4500-P E	DRJ	
Sulfate	<2.00	2.00	mg/L	1	B1L2152	16-Dec-21	16-Dec-21 10:04	ASTM D516-07	SNG	
TDS	332	10.0	mg/L	1	B1L2748	20-Dec-21	20-Dec-21 21:45	SM2540 C	JMM	

Total Metals by ICP

Calcium	27.8	2.00	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	
Total Hardness as CaCO ₃	88.1	13.2	mg/L	1	[CALC]	20-Dec-21	21-Dec-21 14:07	SM 2340B	JMM	
Iron	0.206	0.0050	mg/L	1	B1L3545	23-Dec-21	24-Dec-21 15:50	EPA 200.7	JMM	
Magnesium	4.51	2.00	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	
Manganese	0.0071	0.0050	mg/L	1	B1L3545	23-Dec-21	24-Dec-21 15:50	EPA 200.7	JMM	
Sodium	74.4	2.0	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	

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PWS ID: TX0790500

Reported:
03-Jan-22 08:30

3826 DAINTREE PARK DR
21L2458-02 (Water) Sampled: 15-Dec-21 08:11

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

Field Analysis

pH	7.44		SU	1	B1L2157	15-Dec-21	15-Dec-21 08:11	SM4500H+ B	BKT	
Temperature	25.0	0.0	°C	1	B1L2157	15-Dec-21	15-Dec-21 08:11	SM2550 B	BKT	

Wet Chemistry

Alkalinity (m) as CaCO ₃	186	20.0	mg/L	1	B1L2489	17-Dec-21	17-Dec-21 11:59	SM 2320 B	JPC	
Alkalinity (p) as CaCO ₃	<20.0	20.0	mg/L	1	B1L2489	17-Dec-21	17-Dec-21 11:59	SM 2320 B	JPC	
Total Alkalinity as CaCO ₃	186	20.0	mg/L	1	[CALC]	17-Dec-21	17-Dec-21 11:59	[CALC]	JPC	
Chloride	56.0	6.0	mg/L	2	B1L2270	16-Dec-21	16-Dec-21 13:01	SM4500 Cl-B	JPC	
Conductivity at 25 C	600	30	umho/cm	1	B1L2226	16-Dec-21	16-Dec-21 15:39	SM2510 B	JPC	
OrthoPhosphate as P	0.47	0.10	mg/L	1	B1L2919	15-Dec-21	15-Dec-21 16:50	SM4500-P E	DRJ	
Sulfate	<2.00	2.00	mg/L	1	B1L2152	16-Dec-21	16-Dec-21 10:04	ASTM D516-07	SNG	
TDS	332	10.0	mg/L	1	B1L2748	20-Dec-21	20-Dec-21 21:45	SM2540 C	JMM	

Total Metals by ICP

Calcium	29.1	2.00	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	
Total Hardness as CaCO ₃	91.8	13.2	mg/L	1	[CALC]	20-Dec-21	21-Dec-21 14:07	SM 2340B	JMM	
Iron	0.209	0.0050	mg/L	1	B1L3545	23-Dec-21	24-Dec-21 15:50	EPA 200.7	JMM	
Magnesium	4.68	2.00	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	
Manganese	0.0069	0.0050	mg/L	1	B1L3545	23-Dec-21	24-Dec-21 15:50	EPA 200.7	JMM	
Sodium	75.8	2.0	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	

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Work Order: 21L2458
PWS ID: TX0790500

Reported:
03-Jan-22 08:30

3326 COLORADO BEND DR
21L2458-03 (Water) Sampled: 15-Dec-21 08:05

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

Field Analysis

pH	7.41		SU	1	B1L2157	15-Dec-21	15-Dec-21 08:05	SM4500H+ B	BKT	
Temperature	25.0	0.0	°C	1	B1L2157	15-Dec-21	15-Dec-21 08:05	SM2550 B	BKT	

Wet Chemistry

Alkalinity (m) as CaCO ₃	182	20.0	mg/L	1	B1L2489	17-Dec-21	17-Dec-21 11:59	SM 2320 B	JPC	
Alkalinity (p) as CaCO ₃	<20.0	20.0	mg/L	1	B1L2489	17-Dec-21	17-Dec-21 11:59	SM 2320 B	JPC	
Total Alkalinity as CaCO ₃	182	20.0	mg/L	1	[CALC]	17-Dec-21	17-Dec-21 11:59	[CALC]	JPC	
Chloride	55.0	6.0	mg/L	2	B1L2270	16-Dec-21	16-Dec-21 13:01	SM4500 Cl-B	JPC	
Conductivity at 25 C	580	30	umho/cm	1	B1L2226	16-Dec-21	16-Dec-21 15:39	SM2510 B	JPC	
OrthoPhosphate as P	0.47	0.10	mg/L	1	B1L2919	15-Dec-21	15-Dec-21 16:50	SM4500-P E	DRJ	
Sulfate	<2.00	2.00	mg/L	1	B1L2152	16-Dec-21	16-Dec-21 10:04	ASTM D516-07	SNG	
TDS	264	10.0	mg/L	1	B1L2748	20-Dec-21	20-Dec-21 21:45	SM2540 C	JMM	

Total Metals by ICP

Calcium	28.5	2.00	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	
Total Hardness as CaCO ₃	90.2	13.2	mg/L	1	[CALC]	20-Dec-21	21-Dec-21 14:07	SM 2340B	JMM	
Iron	0.210	0.0050	mg/L	1	B1L3545	23-Dec-21	24-Dec-21 15:50	EPA 200.7	JMM	
Magnesium	4.62	2.00	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	
Manganese	0.0069	0.0050	mg/L	1	B1L3545	23-Dec-21	24-Dec-21 15:50	EPA 200.7	JMM	
Sodium	74.2	2.0	mg/L	1	B1L4020	20-Dec-21	21-Dec-21 14:07	EPA 200.7	JMM	

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Client: Si Environmental, LLC
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Work Order: 21L2458
PWS ID: TX0790500

Reported:
03-Jan-22 08:30

Wet Chemistry - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1L2152 - Inorganics										
Blank (B1L2152-BLK1)				Prepared & Analyzed: 16-Dec-21						
Sulfate	<2.00	2.00	mg/L							
LCS (B1L2152-BS1)				Prepared & Analyzed: 16-Dec-21						
Sulfate	20.6		mg/L	20.0		103	90-110			
Matrix Spike (B1L2152-MS1)				Prepared & Analyzed: 16-Dec-21						
Sulfate	21.4	2.00	mg/L	20.0	ND	107	80-120			
Matrix Spike Dup (B1L2152-MSD1)				Prepared & Analyzed: 16-Dec-21						
Sulfate	21.2	2.00	mg/L	20.0	ND	106	80-120	0.563	20	
Batch B1L2226 - Inorganics										
Blank (B1L2226-BLK1)				Prepared & Analyzed: 16-Dec-21						
Conductivity at 25 C	<30	30	umho/cm							
Duplicate (B1L2226-DUP1)				Prepared & Analyzed: 16-Dec-21						
Conductivity at 25 C	491	30	umho/cm		489			0.428	20	
Reference (B1L2226-SRM1)				Prepared & Analyzed: 16-Dec-21						
Conductivity at 25 C	182		umho/cm	180		101	0-200			
Batch B1L2270 - Inorganics										
Blank (B1L2270-BLK1)				Prepared & Analyzed: 16-Dec-21						
Chloride	<3.0	3.0	mg/L							

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Reported:
03-Jan-22 08:30

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 B1L2270 - Inorganics

LCS (B1L2270-BS1)

Prepared & Analyzed: 16-Dec-21

Chloride	104		mg/L	100		104	90-110			
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Matrix Spike (B1L2270-MS1)

Source: 21L1490-01

Prepared & Analyzed: 16-Dec-21

Chloride	68.0	6.0	mg/L	20.0	48.0	100	80-120			
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Matrix Spike Dup (B1L2270-MSD1)

Source: 21L1490-01

Prepared & Analyzed: 16-Dec-21

Chloride	67.0	6.0	mg/L	20.0	48.0	95.0	80-120	1.48	20	
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Batch B1L2489 - Inorganics

Blank (B1L2489-BLK1)

Prepared & Analyzed: 17-Dec-21

Alkalinity (m) as CaCO3	<20.0	20.0	mg/L							
Alkalinity (p) as CaCO3	<20.0	20.0	"							

LCS (B1L2489-BS1)

Prepared & Analyzed: 17-Dec-21

Alkalinity (m) as CaCO3	50.0		mg/L	50.0		100	90-110			
Alkalinity (p) as CaCO3	51.0		"	50.0		102	90-110			

Duplicate (B1L2489-DUP1)

Source: 21L2385-01

Prepared & Analyzed: 17-Dec-21

Alkalinity (m) as CaCO3	252	20.0	mg/L		254			0.791	20	
Alkalinity (p) as CaCO3	<20.0	20.0	"		<20.0			0	20	

Batch B1L2748 - Inorganics

Blank (B1L2748-BLK1)

Prepared & Analyzed: 20-Dec-21

TDS	<10.0	10.0	mg/L							
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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 B1L2748 - Inorganics

Duplicate (B1L2748-DUP1)		Source: 21L1838-01		Prepared & Analyzed: 20-Dec-21						
TDS	486	10.0	mg/L		490			0.820	20	

Batch B1L2919 - Inorganics

Blank (B1L2919-BLK1)		Prepared & Analyzed: 15-Dec-21								
OrthoPhosphate as P	<0.10	0.10	mg/L							

LCS (B1L2919-BS1)		Prepared & Analyzed: 15-Dec-21								
OrthoPhosphate as P	0.980		mg/L	1.00		98.0	80-120			

Matrix Spike (B1L2919-MS1)		Source: 21L2460-01		Prepared & Analyzed: 15-Dec-21						
OrthoPhosphate as P	0.980	0.10	mg/L	0.999	ND	98.1	80-120			

Matrix Spike Dup (B1L2919-MSD1)		Source: 21L2460-01		Prepared & Analyzed: 15-Dec-21						
OrthoPhosphate as P	0.980	0.10	mg/L	0.999	ND	98.1	80-120	0.00	20	

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Work Order: 21L2458
PWS ID: TX0790500

Reported:
03-Jan-22 08:30

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
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Batch B1L3545 - Metals - EPA 200.2

Blank (B1L3545-BLK1)

Prepared: 23-Dec-21 Analyzed: 24-Dec-21

Iron	<0.0050	0.0050	mg/L
Manganese	<0.0050	0.0050	"

LCS (B1L3545-BS1)

Prepared: 23-Dec-21 Analyzed: 24-Dec-21

Iron	259		ug/L	250		104	85-115
Manganese	258		"	250		103	85-115

Matrix Spike (B1L3545-MS1)

Source: 21L3266-01

Prepared: 23-Dec-21 Analyzed: 24-Dec-21

Manganese	0.529	0.0050	mg/L	0.500	0.0183	102	70-130
Iron	1.23	0.0050	"	0.500	0.750	96.0	70-130

Matrix Spike Dup (B1L3545-MSD1)

Source: 21L3266-01

Prepared: 23-Dec-21 Analyzed: 24-Dec-21

Manganese	0.530	0.0050	mg/L	0.500	0.0183	102	70-130	0.189	20
Iron	1.26	0.0050	"	0.500	0.750	102	70-130	2.41	20

Batch B1L4020 - Metals - EPA 200.2

Blank (B1L4020-BLK1)

Prepared: 20-Dec-21 Analyzed: 21-Dec-21

Calcium	<2.00	2.00	mg/L
Sodium	<2.0	2.0	"
Magnesium	<2.00	2.00	"

LCS (B1L4020-BS1)

Prepared: 20-Dec-21 Analyzed: 21-Dec-21

Calcium	19.5		mg/L	20.0		97.4	85-115
Sodium	19.7		"	20.0		98.6	85-115
Magnesium	20.0		"	20.0		100	85-115

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03-Jan-22 08:30

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
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Batch B1L4020 - Metals - EPA 200.2

Matrix Spike (B1L4020-MS1)

Source: 21L2458-01

Prepared: 20-Dec-21 Analyzed: 21-Dec-21

Calcium	62.5	4.00	mg/L	40.0	27.8	86.7	70-130			
Sodium	110	4.0	"	40.0	74.4	88.2	70-130			
Magnesium	40.9	4.00	"	40.0	4.51	91.0	70-130			

Matrix Spike Dup (B1L4020-MSD1)

Source: 21L2458-01

Prepared: 20-Dec-21 Analyzed: 21-Dec-21

Magnesium	41.1	4.00	mg/L	40.0	4.51	91.5	70-130	0.488	20	
Sodium	110	4.0	"	40.0	74.4	88.2	70-130	0.00	20	
Calcium	63.8	4.00	"	40.0	27.8	90.0	70-130	2.06	20	

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Reported:
03-Jan-22 08:30

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', is written over a light blue rectangular background.

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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: FORT BEND COUNTY MUD 182					Laboratory Name: Envirodyne Laboratories, Inc.																	
PWS ID #: TX 0790500					TCEQ Lab ID #: TX-288																	
PWS Address: 6420 Reading Rd, Rosenberg, TX 77471					Laboratory Address: 11011 Brooklet Dr #230 Houston, TX 77099																	
PWS Contact: Mike Thornhill																						
PWS Contact Phone #: 832-490-1507					Laboratory Contact: Laura Bonjonia																	
Inhibitor or Stabilizer Used (✓): <input checked="" type="checkbox"/> Phosphate <input type="checkbox"/> Silica <input type="checkbox"/> 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 (✓):		<input checked="" type="checkbox"/> Compliance		<input type="checkbox"/> Non-compliance																		
Sample Collector (✓):		Public Water System		<input checked="" type="checkbox"/> 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) *
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)																
PBCU001	EWQP	29023 1/2 DRYANDER FOREST CT	12-15-21	9:07	7.84	26				21L2458-01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DS01	DSTWQP	3826 Daintree Park Dr	12-15-21	8:11	7.44	25				21L2458-02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DS01	DSTWQP	3326 Colorado Bend Dr	12-15-21	8:05	7.41	25				21L2458-03	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
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): Brian Terry Signature: Brian Terry Organization: ELI Date: 12-15-21										<input checked="" type="checkbox"/> Samples received unpreserved? <input checked="" type="checkbox"/> Iced <input type="checkbox"/> Ambient												
										Rejection Code (if applicable): Date & Time of Sample Preservation (Acidified): 12/15/21 @ 11:24 Thermometer ID #: FR44												
Chain of Custody										Laboratory Comments:												
Relinquished By (Signature):			Date/Time:		Relinquished By Courier (Signature): Brian Terry			Date/Time: 12-15-21 14:40														
Received By Courier (Signature):			Date/Time:		Received By Lab (Signature):			Date/Time: 12-15-21 14:40														