



April 1, 2020

Ms. Audra Ennis
Zoning Manager
Lee County Community Development
1500 Monroe Street
Fort Myers, Florida 33901

RE: Third Annual Monitoring Report
RH Golf LLC, River Hall, Lee County, Florida
Zoning Violation Case # VIO2017-18588

Dear Ms. Ennis:

Water Science Associates is pleased to provide the third annual report of water quality monitoring conducted at the River Hall Golf Course, located in Lee County, Florida. The purpose of this monitoring report is to evaluate various influences on the water quality conditions in the River Hall Golf Course lake system and monitor key water quality indicators. The report was prepared in accordance with the requirements of Zoning Resolution Z-15-003 dated June 3, 2015. Condition 6.k. of the zoning resolution requires submittal of an annual monitoring report of surface water quality to assess the potential for herbicide, pesticide, or fertilizer contamination within the golf course. The Water Quality Monitoring Plan was approved by Lee County Department of Natural Resources (LCDNR) on February 2, 2018. The initial annual monitoring report was submitted on April 3, 2018, and the second annual monitoring report was submitted on April 9, 2019.

Since the second annual monitoring report, two additional sampling events have been conducted at the sites designated in the approved plan and the interim results of the two events have been submitted via e-mail reports to Lee County on November 07, 2019 and March 5, 2020. A request to remove Fipronil and Glyphosate from the required monitoring parameter list was included in the second monitoring report; however this request was denied on May 5, 2019 by LCDNR. County staff indicated reconsideration to remove Fipronil and Glyphosate could occur after 5 years of data has been collected and evaluated.

During both of the two most recent sampling events, samples were collected at sites designated as SW-1, SW-2, and SW-3 located respectively at the three lakes Lake 3-3, 4-1B, and Lake 4-2C. Refer to Figure 1 for a map showing the sample site locations. The Water Quality Monitoring Plan requires semi-annual sampling events and the preparation of an Annual Monitoring Report for submittal to Lee County. LCDNR requested that results of the laboratory analyses of water samples be provided in Electronic Data Deliverable (EDD) format for compatibility with the Florida Department of Environmental Protection (FDEP) automated data processing tool (ADaPT). The formatted data has been submitted via e-mail to LCDNR after analysis of each of the completed sampling events and are therefore not included in this report. Refer to Table 1 for a summary of the monitoring results and refer to Exhibit A for the laboratory water quality analysis reports.

The two most recent semi-annual sampling results were compared to applicable target levels for Class III surface water outlined in Chapter 62-302, F.A.C. Most parameters listed in Table 1 have standards based on background, trends, and inter-relationships with other contaminants but do not have numeric target levels. Total nitrogen values ranged from less than 0.033 mg/l to 1.04 mg/l and total phosphorous values ranged from 0.01 mg/l to 0.026 mg/l in samples from all three sampling points. These results indicate that nutrient levels in the three sampled lakes are very low in comparison to typical stormwater runoff for residential land use. Development at River Hall remains at less than 50% buildout and therefore much of the land surface within the individual basins is relatively undisturbed and has a low potential to contribute nutrients to runoff.

Chlorophyll a and pheophytin (a breakdown product of chlorophyll) exhibited values ranging from a high of 14 mg/l to less than the detection limit of 1 mg/l. These compounds have no regulatory limits or numeric targets but are often used to evaluate levels of algal concentrations in aquatic systems. It should be noted that the highest sample result of 14 mg/l was from a sample collected from a shoreline area of SW-1 adjacent to the downstream outfall of the lake. Due to littoral zone vegetation surrounding the lake, this sample result may have been influenced by aquatic vegetation creating a somewhat flow restricted environment. Previous samples from this site have shown similar levels of chlorophyll a and pheophytin and there is no obvious trend in these parameters to indicate any degradation of water quality.

Results of the water quality analysis reports indicate that the parameter of specific conductance is consistently within the numeric target level of less than 1250 micromhos per centimeter (umhos/cm) for Class III surface water. The specific conductance values demonstrated a spatial trend with SW-1 having the highest levels of the three sites. The TDS levels in this most downstream lake are influenced by use of Lower Hawthorn Aquifer and Sandstone Aquifer Wells to supply a component of irrigation on the golf course.

The parameter of dissolved oxygen was slightly below the target level of 5 mg/l in all three lakes on five of six samples collected. Dissolved oxygen concentrations vary with respect to environmental conditions of the water body, which include temperature, salinity, and vegetative growth. The results show that there were no detections of the pesticide Fipronil. The single detection of glyphosate in a sample from SW-3 at a level below the laboratory practical quantitation limit (pcl) is considered to be anomalous because this lake is in a completely undeveloped section of the community and the lake is surrounded by open fields and brush. There was no additional detection of glyphosate at this location during the subsequent sampling event. Neither Fipronil nor glyphosate have specific target levels listed in Chapter 62-302.

This annual report demonstrates that the water in the lake system has relatively low nutrient and aquatic algae levels, had no quantifiable levels of the most common pesticide or herbicide used on the golf course, and that the influence of groundwater from recharge wells is reflected by trends in TDS. The data evaluation does not indicate exceedances of nutrient or other water quality parameters or temporal trends showing ongoing degradation of water quality. Overall, the lakes have significantly lower nutrient levels than is typical for residential stormwater systems.

Should you have any questions or would like additional information, please do not hesitate to contact Andrew McThenia or Michael Jessich via phone or email.

Sincerely,



Andrew McThenia, P.G.
Senior Hydrogeologist
Water Science Associates, Inc.
Office: 239.529.4396
Mobile: 239.246.1972
Email: andy@wsaconsult.com



Michael J. Jessich
Project Manager/Staff Scientist
Water Science Associates, Inc.
Office: 239. 529.4394
Mobile: 612.386.4068
Email: michaelj@wsaconsult.com

Attachments: Figure 1, Table 1, Exhibit A

FIGURE 1

Map Showing Sampling Locations



Water Science Associates

PROJECT NAME: RIVER HALL GOLF COURSE MONITORING
PROJECT NUMBER: 11319-01

COA 30437
APRIL 2020

FIGURE 1. MAP SHOWING SAMPLING LOCATIONS.

TABLE 1

Summary of Surface Water Quality Results

Table 1. Summary of Water Quality Results

Parameter	Units	INITIAL ANNUAL REPORT				SECOND ANNUAL REPORT											
		2/15/2018				8/27/2018				1/14/2019				3/19/2019			
		Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL
		Results				Results				Results				Results			
Nitrite	mg/L as N	ND*	ND	0.052	0.01	ND	ND	ND	0.01	ND	ND	ND	0.01				0.01
Nitrate	mg/L as N	ND	ND	ND	0.04	ND	ND	ND	0.04	ND	ND	ND	0.01				0.01
Total Nitrogen	mg/L as N	0.66	0.7	0.56	0.1	ND	ND	ND	0.1	0.79	0.98	0.54	0.1				0.1
Total Phosphorus	mg/L as P	ND	ND	ND	0.05	ND	ND	ND	0.05	ND	ND	ND	0.05	0.017	0.027	0.012	0.004
Chlorophyll a	mg/m ³	4.27	4.45	37.4	1	13.4	12	6.01	1	10	8.01	ND	1				1
Pheophytin	mg/m ³	4.7	ND	11.2	1	3.94	2.94	1.47	1	5.87	3.83	1.87	1				1
Temperature (field)	°C	26.5	27.7	28	0.1	33	33.4	32.7	0.1	21.7	24.7	22.5	0.1	28.4	28.1	26.9	0.1
pH (field)	S.U.	7.84	7.99	7.99	0.01	7.77	7.64	7.84	0.01	7.91	8.03	8.06	0.01	7.91	7.95	7.98	0.01
Conductivity	µmhos/cm	1166	720	364.9	1	977	627	318.5	1	1196	740	303.8	1	1138	654	324.2	1
Dissolved Oxygen (field)	mg/L	4.86	4.93	4.55	0.1	4.67	3.95	5.31	0.1	5.95	5.46	7.08	0.1	4.82	5.28	6.11	0.1
Fipronil	ug/L	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5				0.5
Glyphosate	mg/L	.0042 U**	.0042 U	.0042 U	0.0042	.0042 U	.0042 U	.0042 U	0.0042	.0042 U	.0042 U	.0042 U	0.0042				0.0042

Parameter	Units	THIRD ANNUAL REPORT							
		9/26/2019				2/11/2020			
		Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL
		Results				Results			
Nitrite	mg/L as N	ND	ND	ND	0.03	ND	ND	ND	0.01
Nitrate	mg/L as N	ND	ND	0.068	0.01	0.1	ND	ND	0.01
Total Nitrogen	mg/L as N	1.04	0.51	0.95	0.1	0.09	0.033U	0.033U	0.05
Total Phosphorus	mg/L as P	ND	ND	ND	0.05	0.021	0.026	0.01	0.004
Chlorophyll a	mg/m ³	11.4	4.01	10	1	14	7.12	ND	1
Pheophytin	mg/m ³	2.67	2.07	4.47	1	1.87	ND	ND	1
Temperature (field)	°C	27.7	29.1	29.3	0.1	24.1	26.1	25.2	0.1
pH (field)	S.U.	7.83	7.7	7.72	0.01	7.51	8.05	8.05	0.01
Conductivity	µmhos/cm	810	302.7	731	1	1229	759	277.3	1
Dissolved Oxygen (field)	mg/L	5.16	4.82	4.11	0.1	4.25	4.03	4.01	0.1
Fipronil	ug/L	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5
Glyphosate	mg/L	0.0042U	0.0042U	0.0051***	0.0042	0.0042U	0.0042U	0.0042U	0.0042

ND* = Not Detected

U** = Compound was analyzed for but not detected.

I*** = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

EXHIBIT A

Laboratory Reports of Sampling: 09/26/19 and 02/11/20



*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net*

October 17, 2019

Andy McThenia
Water Science Associates
13620 Metropolis Avenue, Suite 110
Fort Myers, FL 33912
TEL:
FAX:

RE: River Hall Golf Course

Order No.: 1909901

Dear Andy McThenia:

Sanders Laboratories, Inc received 3 sample(s) on 9/26/2019 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of \$50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
Nokomis Certificate # E84380 Fort Myers Certificate # E85457

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director



*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net*

Definition Only

WO#: 1909901
Date: 10/17/2019

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: Too many colonies were present for accurate counting.



Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 1909901

Date Reported: 10/17/2019

CLIENT: Water Science Associates

Lab Order: 1909901

Project: River Hall Golf Course

Lab ID: 1909901-001

Collection Date: 9/26/2019 10:00:00 AM

Client Sample ID: SW-1

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrite	ND	0.0300		mg/L	1	9/27/2019 2:21:00 PM
NITROGEN, NITRATE + NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrate	ND	0.0100		mg/L	1	9/27/2019 1:53:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	9/27/2019 1:53:00 PM
TOTAL NITROGEN				E351.2	Analyst: GC	
Nitrogen, Total	1.04	0.100		mg/L	1	10/1/2019 2:25:00 PM
TOTAL PHOSPHOROUS				E365.4	Analyst: GC	
Phosphorus, Total (As P)	ND	0.0500		mg/L	1	10/1/2019 2:25:00 PM
CHLOROPHYLL A				A10200H	Analyst: GC	
Chlorophyll a	11.4	1.00		mg/m ³	1	9/26/2019 2:22:00 PM
Pheophytin	2.67	1.00		mg/m ³	1	9/26/2019 2:22:00 PM
FIELD PARAMETERS				FLD	Analyst:	
Conductivity, EPA 120.1	810	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	5.16	0.10		mg/L		
pH, EPA 150.1	7.83	0.01		S.U.		
Salinity	0.39	0.01		ppt		
Temperature, EPA 170.1	27.7	0.1		deg C		
Turbidity, EPA 180.1	4.42	0.01		NTU		

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit
	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 1909901

Date Reported: 10/17/2019

CLIENT: Water Science Associates

Lab Order: 1909901

Project: River Hall Golf Course

Lab ID: 1909901-002

Collection Date: 9/26/2019 11:45:00 AM

Client Sample ID: SW-2

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrite	ND	0.0300		mg/L	1	9/27/2019 2:21:00 PM
NITROGEN, NITRATE + NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrate	ND	0.0100		mg/L	1	9/27/2019 1:53:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	9/27/2019 1:53:00 PM
TOTAL NITROGEN				E351.2	Analyst: GC	
Nitrogen, Total	0.510	0.100		mg/L	1	10/1/2019 2:25:00 PM
TOTAL PHOSPHOROUS				E365.4	Analyst: GC	
Phosphorus, Total (As P)	ND	0.0500		mg/L	1	10/1/2019 2:25:00 PM
CHLOROPHYLL A				A10200H	Analyst: GC	
Chlorophyll a	4.01	1.00		mg/m ³	1	9/26/2019 2:22:00 PM
Pheophytin	2.07	1.00		mg/m ³	1	9/26/2019 2:22:00 PM
FIELD PARAMETERS				FLD	Analyst:	
Conductivity, EPA 120.1	302.7	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.82	0.10		mg/L		
pH, EPA 150.1	7.70	0.01		S.U.		
Salinity	0.14	0.01		ppt		
Temperature, EPA 170.1	29.1	0.1		deg C		
Turbidity, EPA 180.1	3.93	0.01		NTU		

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit
	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 1909901

Date Reported: 10/17/2019

CLIENT: Water Science Associates

Lab Order: 1909901

Project: River Hall Golf Course

Lab ID: 1909901-003

Collection Date: 9/26/2019 10:50:00 AM

Client Sample ID: SW-3

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrite	ND	0.0300		mg/L	1	9/27/2019 2:21:00 PM
NITROGEN, NITRATE + NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrate	0.0680	0.0100		mg/L	1	9/27/2019 1:53:00 PM
Nitrogen, Nitrate-Nitrite	0.0680	0.0100		mg/L	1	9/27/2019 1:53:00 PM
TOTAL NITROGEN				E351.2	Analyst: GC	
Nitrogen, Total	0.950	0.100		mg/L	1	10/1/2019 2:25:00 PM
TOTAL PHOSPHOROUS				E365.4	Analyst: GC	
Phosphorus, Total (As P)	ND	0.0500		mg/L	1	10/1/2019 2:25:00 PM
CHLOROPHYLL A				A10200H	Analyst: GC	
Chlorophyll a	10.0	1.00		mg/m ³	1	9/26/2019 2:22:00 PM
Pheophytin	4.47	1.00		mg/m ³	1	9/26/2019 2:22:00 PM
FIELD PARAMETERS				FLD	Analyst:	
Conductivity, EPA 120.1	731	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.11	0.10		mg/L		
pH, EPA 150.1	7.72	0.01		S.U.		
Salinity	0.35	0.01		ppt		
Temperature, EPA 170.1	29.3	0.1		deg C		
Turbidity, EPA 180.1	5.03	0.01		NTU		

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit
	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



Client: USA

Address:

Phone: _____

Fax: _____

CHAIN OF CUSTODY RECORD

Report To: MAY AIRCRAFT

E-mail: _____

Bill to:

P.O. #

Preservative: HCL = H, HNO₃ = N, Na₂S₂O₃ = ST

$$\text{H}_2\text{SO}_4 = \text{S}, \text{NaOH} = \text{SH}, \text{NH}_4\text{Cl} = \text{NH}$$
Project #
(Lab Use Only)

Project Name:

Project Location: Riverhall Lakes

Customer Type: .

Kit #: 1

Requested Due Date:

[illegible]



Sanders Laboratories Inc.
Surface Water Log

1909901
Revision: 7/20/2016
Date: 9/28/16
Field Tech: Jason Gumpus
Location: WSA Riverball

Site	Time	Flow* Ft/sec or tidal change	Total Depth (ft)	Sample Depth (ft)	Water Temp EPA 170.1 (C)	DO EPA 360.1 (mg/L)	DO (%)	Cond EPA 120.1 (umhos /cm)	Salinity M 250B (pp)	pH EPA 150.1 (std units)	Turbidity EPA 180.1 (NTU)	Weather Cloud Cover	Wind	Air Temp (C)	Secchi (ft)
SW-1	10:00	no flow	2 1/2 ft	1 ft	27.7	5.16	65.7	810	0.39	7.83	4.42	0% clear	NE 3 mph	27.22	
SW-3	10:50		2 ft	1 ft	29.3	4.11	53.8	731	0.35	7.72	5.03				
SW-2	11:45		2 ft	1 ft	29.1	4.82	62.8	302.7	0.14	7.70	3.93				

Tests/Bottles/Preservatives:

Lot #	Preservative
250P	
500 P	
1LP	
2LP	
Other	

Equipment Used: (circle)

Dip Stick	1	2			
Multi	Turb	Depth	Peri Pump	Sub Pump	
JCO20973	412163	4434	2250	18229.00	
JCO13613	201211296	4999	91350103	1874.00	

Comments:

Date Revised: 8/12/2016 Form ID: FF-03 Approved by: KS

Form #: FF-03 Approved by: KS 10/1/2015

October 10, 2019

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

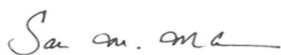
RE: Project: 1909901
Pace Project No.: 35501028

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sakina McKenzie
sakina.mckenzie@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman, Sanders Laboratories, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 1909901

Pace Project No.: 35501028

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1909901

Pace Project No.: 35501028

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35501028001	1909901-001D	Water	09/26/19 10:00	09/27/19 12:00
35501028002	1909901-002D	Water	09/26/19 11:45	09/27/19 12:00
35501028003	1909901-003D	Water	09/26/19 10:50	09/27/19 12:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1909901

Pace Project No.: 35501028

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35501028001	1909901-001D	EPA 547	KH2	1	PASI-O
35501028002	1909901-002D	EPA 547	KH2	1	PASI-O
35501028003	1909901-003D	EPA 547	KH2	1	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 1909901
Pace Project No.: 35501028

Sample: 1909901-001D		Lab ID: 35501028001		Collected: 09/26/19 10:00		Received: 09/27/19 12:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		10/07/19 17:21		
Sample: 1909901-002D		Lab ID: 35501028002		Collected: 09/26/19 11:45		Received: 09/27/19 12:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		10/07/19 18:08		
Sample: 1909901-003D		Lab ID: 35501028003		Collected: 09/26/19 10:50		Received: 09/27/19 12:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547							
Glyphosate	0.0051 I	mg/L	0.0060	0.0042	1		10/09/19 16:43		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1909901

Pace Project No.: 35501028

QC Batch: 575887

Analysis Method: EPA 547

QC Batch Method: EPA 547

Analysis Description: 547 HPLC Glyphosate

Associated Lab Samples: 35501028001, 35501028002

METHOD BLANK: 3130650

Matrix: Water

Associated Lab Samples: 35501028001, 35501028002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Glyphosate	mg/L	0.0042 U	0.0060	0.0042	10/07/19 13:11	

LABORATORY CONTROL SAMPLE: 3130651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	mg/L	0.05	0.053	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3130652 3130653

Parameter	Units	35500322004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	4.2 U ug/L	0.05	0.05	0.054	0.053	107	107	80-120	0	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3130654 3130655

Parameter	Units	35502386001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	4.2 U ug/L	0.05	0.05	0.052	0.053	104	107	80-120	3	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1909901

Pace Project No.: 35501028

QC Batch: 576980

Analysis Method: EPA 547

QC Batch Method: EPA 547

Analysis Description: 547 HPLC Glyphosate

Associated Lab Samples: 35501028003

METHOD BLANK: 3135773

Matrix: Water

Associated Lab Samples: 35501028003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Glyphosate	mg/L	0.0042 U	0.0060	0.0042	10/09/19 15:10	

LABORATORY CONTROL SAMPLE: 3135774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	mg/L	0.05	0.050	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3135777 3135778

Parameter	Units	35503394001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	4.2 U ug/L	0.05	0.05	0.051	0.051	103	102	80-120	1	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3135780 3135781

Parameter	Units	35503355001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	4.2 U ug/L	0.05	0.05	0.051	0.051	102	102	80-120	0	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1909901
Pace Project No.: 35501028

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1909901

Pace Project No.: 35501028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35501028001	1909901-001D	EPA 547	575887		
35501028002	1909901-002D	EPA 547	575887		
35501028003	1909901-003D	EPA 547	576980		

REPORT OF LABORATORY ANALYSIS

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WO#: 35501028



35501028

Omega COCID 10643

PAGE: 1

OF: 1

ADDRESS

Nokomis Lab01
1050 Endeavor Court
Nokomis, FL 34275
TEL: (941) 234-1000
FAX: (941) 484-6774
Website: www.sanderslabs.net

SUB CONTRACTOR: Pace		COMPANY: Pace Analytical		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS: 8 East Tower Circle							
CITY, STATE, ZIP: Ormond Beach, FL 32174							
PHONE: (386) 676-4837 FAX: (386) 673-4001 EMAIL:							
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	1909901-001D See Attached	SW-1		Surface Water	9/26/2019 10:00:00 AM	1	SW - 547 - Glyphosate
2	1909901-002D See Attached	SW-2		Surface Water	9/26/2019 11:45:00 AM	1	SW - 547 - Glyphosate
3	1909901-003D See Attached	SW-3		Surface Water	9/26/2019 10:50:00 AM	1	SW - 547 - Glyphosate

Relinquished By: <i>W. H. H.</i>	Date: <i>9/26/19</i>	Time: <i>11:00</i>	Received By: <i>J. L. I. / pace</i>	Date: <i>9-27</i>	Time: <i>12:00</i>	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY Temp of samples <i>7-33.8</i> °C Attempt to Cool ? _____ Comments: _____	
TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐						Note: RUSH requests will incur surcharges!	

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

WO# : 35501028**(SCUR)**

Project # PM: SMM **Due Date:** 10/11/19
Project Manager: CLIENT: SANLAB
Client:

Date and Initials of person:**Examining contents:** [Signature]**Label:** _____**Deliver:** _____**pH:** _____Thermometer Used: T338Date: 09/27/19Time: 1227Initials: (DD)State of Origin: FL☐ For WY projects, all containers verified to $\leq 6^{\circ}\text{C}$ Cooler #1 Temp. °C 11 (Visual) 10 (Correction Factor) 11 (Actual)☐ Samples on ice, cooling process has begun

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begunCourier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace☐ Other _____Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☒ Ground☐ International Priority☐ Other _____Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ UnknownTracking # (96120189) 8386 113 0074 964Custody Seal on Cooler/Box Present: ☐ Yes ☒ NoSeals intact: ☐ Yes ☐ NoIce: Wet Blue Dry NonePacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete)

Shorted Date: _____

Shorted Time: _____

Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☐ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☒ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____

Date: _____

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

110 South Hill Street
 South Bend, IN 46617
 Tel: (574) 233-4777
 Fax: (574) 233-8207
 1 800 332 4345

Laboratory Report

Client: Sanders Laboratories, Inc

Attn: Katie Strothman
 10090 Bavaria Road
 Fort Myers, FL 33913

Report: 466957
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4440362	1909901-001D	S150	09/26/19 10:00	Client	10/01/19 09:30
4440363	1909901-002D	S150	09/26/19 11:45	Client	10/01/19 09:30
4440364	1909901-003D	S150	09/26/19 10:50	Client	10/01/19 09:30

Report Summary

Note: The samples submitted for analysis were received at a temperature of 21.8°C.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jessie Brasch at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.



Analytical Services Manager

Authorized Signature

Title

10/11/2019

Date

Client Name: Sanders Laboratories, Inc

Report #: 466957

Client Name: Sanders Laboratories, Inc

Report #: 466957

Sampling Point: 1909901-001D

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	10/03/19 08:05	10/08/19 22:42	4440362

Sampling Point: 1909901-002D

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	10/03/19 08:05	10/08/19 23:12	4440363

Sampling Point: 1909901-003D

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	10/03/19 08:05	10/08/19 23:43	4440364

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 361313
Batch # 466957

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page 1 of 1

Shaded area for EEA use only

REPORT TO:					SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
Tami Bright (239-590-0337) Sanders Laboratories 1050 Endeavor Ct. Nokomis, FL 34275 BILL TO:					COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER			
LAB Number		COLLECTION				SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED			
		DATE	TIME	AM	PM				YES	NO		
1	4440362	9/26/2019	10:00	✓		1909901-001D	Fipronil (S150)		✓	1	SW	
2	↓ 363	9/26/2019	11:45	✓		1909901-002D	Fipronil (S150)		✓	1	SW	
3	↓ 364	9/26/2019	10:50	✓		1909901-003D	Fipronil (S150)		✓	1	SW	
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

WET ICE WAS MELTED
UPON RECEIPT

WET ICE WAS MELTED
UPON RECEIPT

RELINQUISHED BY: (Signature) <i>N. Huebner</i>	DATE <i>9/26/19</i>	TIME <i>16:00</i>	RECEIVED BY: (Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT LAB COMMENTS <i>OK to run per Katie @ Sanders. 10012019 KD</i>
RELINQUISHED BY: (Signature)	DATE	TIME AM PM	RECEIVED BY: (Signature)	DATE	TIME AM PM	
RELINQUISHED BY: (Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY:	DATE	TIME AM PM	
RELINQUISHED BY: (Signature)	DATE	TIME AM PM	<i>K Dew 101-19</i>	<i>0930</i>	CONDITIONS UPON RECEIPT (check one): ☒ Iced ☐ Wet/Blue ☐ Ambient <i>21.8</i> °C Upon Receipt ☐ N/A	

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES	
-------------------------------------	--

SW = Standard Written: (15 working days)	0%
RV* = Rush Verbal: (5 working days)	50%
RW* = Rush Written: (5 working days)	75%

* Please call, expedited service not available for all testing

IV* = Immediate Verbal: (3 working days)	100%
IW* = Immediate Written: (3 working days)	125%
SP* = Weekend, Holiday	CA
STAT* = Less than 48 hours	CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

RECEIVED
MELICE MAY 2 1964

Eurofins Eaton Analytical

Run Log

Run ID: 265992 Method: S150

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCC	4443179	1909901-001D 1909901-002D 1909901-003D	OS	DN	10/08/2019 09:22	S150-DN-031516.mth
LFB	4443171		RW	DN	10/08/2019 10:54	S150-DN-031516.mth
LMB	4443169		RW	DN	10/08/2019 11:55	S150-DN-031516.mth
CCC	4446655		OS	DN	10/08/2019 19:06	S150-DN-031516.mth
CCC	4446656		OS	DN	10/08/2019 20:08	S150-DN-031516.mth
FS	4440362		SW	DN	10/08/2019 22:42	S150-DN-031516.mth
FS	4440363		SW	DN	10/08/2019 23:12	S150-DN-031516.mth
FS	4440364		SW	DN	10/08/2019 23:43	S150-DN-031516.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Acenaphthene-d10	S150	N/A	---		1012000	876286	ug/L	115	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 09:22	4443179
CCC	IS-Chrysene-d12	S150	N/A	---		621982	626792	ug/L	99	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 09:22	4443179
CCC	IS-Phenanthrene-d10	S150	N/A	---		768437	744704	ug/L	103	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 09:22	4443179
CCC	SS-Triphenylphosphate	S150	N/A	---		5.4080	5.0	ug/L	108	70 - 130	---	---	1.0	10/03/2019 08:05	10/08/2019 09:22	4443179
CCC	Fipronil	S150	0.5	---		5.7930	5.0	ug/L	116	67 - 152	---	---	1.0	10/03/2019 08:05	10/08/2019 09:22	4443179
LFB	IS-Acenaphthene-d10	S150	N/A	---		866722	876286	ug/L	99	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 10:54	4443171
LFB	IS-Chrysene-d12	S150	N/A	---		556780	626792	ug/L	89	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 10:54	4443171
LFB	IS-Phenanthrene-d10	S150	N/A	---		687340	744704	ug/L	92	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 10:54	4443171
LFB	SS-Triphenylphosphate	S150	N/A	---		5.5870	5.0	ug/L	112	70 - 130	---	---	1.0	10/03/2019 08:05	10/08/2019 10:54	4443171
LFB	Fipronil	S150	0.5	---		5.9560	5.0	ug/L	119	65 - 141	---	---	1.0	10/03/2019 08:05	10/08/2019 10:54	4443171
LMB	IS-Acenaphthene-d10	S150	N/A	---		910438	876286	ug/L	104	50 - 150	---	---	0.97	10/03/2019 08:05	10/08/2019 11:55	4443169
LMB	IS-Chrysene-d12	S150	N/A	---		541617	626792	ug/L	86	50 - 150	---	---	0.97	10/03/2019 08:05	10/08/2019 11:55	4443169
LMB	IS-Phenanthrene-d10	S150	N/A	---		700801	744704	ug/L	94	50 - 150	---	---	0.97	10/03/2019 08:05	10/08/2019 11:55	4443169
LMB	SS-Triphenylphosphate	S150	N/A	---		5.6660	5.0	ug/L	117	70 - 130	---	---	0.97	10/03/2019 08:05	10/08/2019 11:55	4443169
LMB	Fipronil	S150	0.5	---	<	0.5		ug/L	---	---	---	---	0.97	10/03/2019 08:05	10/08/2019 11:55	4443169
CCC	IS-Acenaphthene-d10	S150	N/A	---		1015000	876286	ug/L	116	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 19:06	4446655
CCC	IS-Chrysene-d12	S150	N/A	---		717953	626792	ug/L	115	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 19:06	4446655
CCC	IS-Phenanthrene-d10	S150	N/A	---		795094	744704	ug/L	107	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 19:06	4446655
CCC	SS-Triphenylphosphate	S150	N/A	---		5.1610	5.0	ug/L	103	70 - 130	---	---	1.0	10/03/2019 08:05	10/08/2019 19:06	4446655
CCC	IS-Acenaphthene-d10	S150	N/A	---		1040000	876286	ug/L	119	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 20:08	4446656
CCC	IS-Chrysene-d12	S150	N/A	---		632513	626792	ug/L	101	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 20:08	4446656
CCC	IS-Phenanthrene-d10	S150	N/A	---		771654	744704	ug/L	104	50 - 150	---	---	1.0	10/03/2019 08:05	10/08/2019 20:08	4446656
CCC	SS-Triphenylphosphate	S150	N/A	---		5.3880	5.0	ug/L	108	70 - 130	---	---	1.0	10/03/2019 08:05	10/08/2019 20:08	4446656
CCC	Fipronil	S150	0.5	---		5.8290	5.0	ug/L	117	67 - 152	---	---	1.0	10/03/2019 08:05	10/08/2019 20:08	4446656
FS	IS-Acenaphthene-d10	S150	N/A	1909901-001D		897027	876286	ug/L	102	50 - 150	---	---	0.95	10/03/2019 08:05	10/08/2019 22:42	4440362
FS	IS-Chrysene-d12	S150	N/A	1909901-001D		582970	626792	ug/L	93	50 - 150	---	---	0.95	10/03/2019 08:05	10/08/2019 22:42	4440362
FS	IS-Phenanthrene-d10	S150	N/A	1909901-001D		734918	744704	ug/L	99	50 - 150	---	---	0.95	10/03/2019 08:05	10/08/2019 22:42	4440362
FS	SS-Triphenylphosphate	S150	N/A	1909901-001D		4.8910	5.0	ug/L	103	70 - 130	---	---	0.95	10/03/2019 08:05	10/08/2019 22:42	4440362
FS	Fipronil	S150	0.5	1909901-001D	<	0.5		ug/L	---	---	---	---	0.95	10/03/2019 08:05	10/08/2019 22:42	4440362
FS	IS-Acenaphthene-d10	S150	N/A	1909901-002D		852775	876286	ug/L	97	50 - 150	---	---	0.95	10/03/2019 08:05	10/08/2019 23:12	4440363
FS	IS-Chrysene-d12	S150	N/A	1909901-002D		544049	626792	ug/L	87	50 - 150	---	---	0.95	10/03/2019 08:05	10/08/2019 23:12	4440363
FS	IS-Phenanthrene-d10	S150	N/A	1909901-002D		693124	744704	ug/L	93	50 - 150	---	---	0.95	10/03/2019 08:05	10/08/2019 23:12	4440363
FS	SS-Triphenylphosphate	S150	N/A	1909901-002D		5.2780	5.0	ug/L	111	70 - 130	---	---	0.95	10/03/2019 08:05	10/08/2019 23:12	4440363
FS	Fipronil	S150	0.5	1909901-002D	<	0.5		ug/L	---	---	---	---	0.95	10/03/2019 08:05	10/08/2019 23:12	4440363
FS	IS-Acenaphthene-d10	S150	N/A	1909901-003D		877548	876286	ug/L	100	50 - 150	---	---	0.94	10/03/2019 08:05	10/08/2019 23:43	4440364
FS	IS-Chrysene-d12	S150	N/A	1909901-003D		558461	626792	ug/L	89	50 - 150	---	---	0.94	10/03/2019 08:05	10/08/2019 23:43	4440364
FS	IS-Phenanthrene-d10	S150	N/A	1909901-003D		734048	744704	ug/L	99	50 - 150	---	---	0.94	10/03/2019 08:05	10/08/2019 23:43	4440364
FS	SS-Triphenylphosphate	S150	N/A	1909901-003D		4.9990	5.0	ug/L	106	70 - 130	---	---	0.94	10/03/2019 08:05	10/08/2019 23:43	4440364
FS	Fipronil	S150	0.5	1909901-003D	<	0.5		ug/L	---	---	---	---	0.94	10/03/2019 08:05	10/08/2019 23:43	4440364

Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCC	Continuing Calibration Check
FS	Field Sample
LFB	Laboratory Fortified Blank
LMB	Laboratory Method Blank

END OF REPORT



*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net*

March 05, 2020

Andy McThenia
Water Science Associates
13620 Metropolis Avenue, Suite 110
Fort Myers, FL 33912
TEL:
FAX:

RE: River Hall Golf Course

Order No.: 2002390

Dear Andy McThenia:

Sanders Laboratories, Inc received 3 sample(s) on 2/11/2020 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of \$50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
Nokomis Certificate # E84380 Fort Myers Certificate # E85457

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director



*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net*

Definition Only

WO#: 2002390
Date: 3/5/2020

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: Too many colonies were present for accurate counting.



Ft. Myers Lab02
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Fort Myers, FL 33913
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Analytical Report

(continuous)

WO#: 2002390

Date Reported: 3/5/2020

CLIENT: Water Science Associates

Lab Order: 2002390

Project: River Hall Golf Course

Lab ID: 2002390-001

Collection Date: 2/11/2020 10:20:00 AM

Client Sample ID: SW-1

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRATE + NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrate	0.100	0.0100		mg/L	1	2/12/2020 3:02:00 PM
Nitrogen, Nitrate-Nitrite	0.100	0.0100		mg/L	1	2/12/2020 3:02:00 PM
NITROGEN, NITRITE				A4500-NO2-B	Analyst: NS	
Nitrogen, Nitrite	ND	0.0100		mg/L	1	2/11/2020 3:30:00 PM
CHLOROPHYLL A				A10200H	Analyst: EH	
Chlorophyll a	14.0	1.00		mg/m ³	1	2/12/2020 1:53:00 PM
Pheophytin	1.87	1.00		mg/m ³	1	2/12/2020 1:53:00 PM
FIELD PARAMETERS				FLD	Analyst:	
Conductivity, EPA 120.1	1229	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.25	0.10		mg/L		
pH, EPA 150.1	7.51	0.01		S.U.		
Salinity	0.61	0.01		ppt		
Temperature, EPA 170.1	24.1	0.1		deg C		
Turbidity, EPA 180.1	3.46	0.01		NTU		

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit
	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



Ft. Myers Lab02
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Fort Myers, FL 33913
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Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 2002390

Date Reported: 3/5/2020

CLIENT: Water Science Associates

Lab Order: 2002390

Project: River Hall Golf Course

Lab ID: 2002390-002

Collection Date: 2/11/2020 11:00:00 AM

Client Sample ID: SW-3

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRATE + NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrate	ND	0.0100		mg/L	1	2/12/2020 3:02:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	2/12/2020 3:02:00 PM
NITROGEN, NITRITE				A4500-NO2-B	Analyst: NS	
Nitrogen, Nitrite	ND	0.0100		mg/L	1	2/11/2020 3:30:00 PM
CHLOROPHYLL A				A10200H	Analyst: EH	
Chlorophyll a	ND	1.00		mg/m ³	1	2/12/2020 1:53:00 PM
Pheophytin	ND	1.00		mg/m ³	1	2/12/2020 1:53:00 PM
FIELD PARAMETERS				FLD	Analyst:	
Conductivity, EPA 120.1	277.3	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.01	0.10		mg/L		
pH, EPA 150.1	8.05	0.01		S.U.		
Salinity	0.13	0.01		ppt		
Temperature, EPA 170.1	25.2	0.1		deg C		
Turbidity, EPA 180.1	0.02	0.01		NTU		

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit
	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 2002390

Date Reported: 3/5/2020

CLIENT: Water Science Associates

Lab Order: 2002390

Project: River Hall Golf Course

Lab ID: 2002390-003

Collection Date: 2/11/2020 11:30:00 AM

Client Sample ID: SW-2

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRATE + NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrate	ND	0.0100		mg/L	1	2/12/2020 3:02:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	2/12/2020 3:02:00 PM
NITROGEN, NITRITE				A4500-NO2-B	Analyst: NS	
Nitrogen, Nitrite	ND	0.0100		mg/L	1	2/11/2020 3:30:00 PM
CHLOROPHYLL A				A10200H	Analyst: EH	
Chlorophyll a	7.12	1.00		mg/m ³	1	2/12/2020 1:53:00 PM
Pheophytin	ND	1.00		mg/m ³	1	2/12/2020 1:53:00 PM
FIELD PARAMETERS				FLD	Analyst:	
Conductivity, EPA 120.1	759	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.03	0.10		mg/L		
pH, EPA 150.1	8.05	0.01		S.U.		
Salinity	0.37	0.01		ppt		
Temperature, EPA 170.1	26.1	0.1		deg C		
Turbidity, EPA 180.1	1.68	0.01		NTU		

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit
	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



CHAIN OF CUSTODY RECORD

Project #
(Lab Use Only)

2002 390

Client

WSA

Address

Phone

Fax

Email:

Report To:

Bill to:

P.O. #

Preservative: HCL = H, HNO₃ = N, Na₂S₂O₃ = STH₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name:

Project Location:

Customer Type:

Kit #:

Requested Due Date:

Analysis Requested

Sample
ID #
(Lab Use
Only)

Sampled By (PRINT)

Jason Bonorus

Sampler Signature

Sample

Preservatives

Matrix

Sample Description

Date

Time

Type

H

N

S

X

X

X

X

X

X

X

X

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X

SW

SW-1

3/11/20

10:20

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SW-3

3/11/20

11:00

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SW-3

3/11/20

11:00

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SW-3

3/11/20

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SW-3

3/11/20

11:00

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3/11/20

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SW-3

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SW

SW-3

3/11/20

11:00

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X

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X

X

X

X

X

X

X

X

X

X

X

Bottle Lot #

Relinquished By/Affiliation

Date

Time

Accepted By/Affiliation

Date

Time

Okay to Run
As Is...

Client Initial:

Samples On
Ice

Yes No

6-4

1050 Endeavor Ct, Nokomis, FL 34275-3623 (941) 488-8103 fax(941) 484-6774

10090 Bavaria Rd., Fort Myers, FL 33913 (239) 590-0337 fax (239) 590-0536

Form #: RCF -02 Approved by: KS 7/11/2016



CHAIN OF CUSTODY RECORD

Project #
(Lab Use Only)

2002 390

Client

WSA

Address

Phone

Fax

Email:

Report To:

Bill to:

P.O. #

Preservative: HCL = H, HNO₃ = N, Na₂S₂O₃ = STH₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name:

Project Location:

Customer Type:

Kit #:

Requested Due Date:

Analysis Requested

Sampled By (PRINT)

Jason Gavanus

Sampler Signature

Sample

Preservatives

Matrix

Sample Description

Date

Time

Type

H

N

S

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Sample ID #
(Lab Use Only)

3A

B

C

D/E

Bottle Lot #

Okay to Run
As Is...

Client Initial:

Samples On
Ice

Yes No

Relinquished By/Affiliation

Date

Time

Accepted By/Affiliation

Date

Time

1050 Endeavor Ct, Nokomis, FL 34275-3623 (941) 488-8103 fax(941) 484-6774

10090 Bavaria Rd., Fort Myers, FL 33913 (239) 590-0337 fax (239) 590-0536

Form #: RCF -02 Approved by: KS 7/11/2016

Revision: 7/20/2016

Location:

USA Kirsch

Tests/Bottles/Preservatives:		
	Lot #	Preservative
250P		
500 P		
1LP		
2LP		
Other		

Multi	Turb	Depth	Peri Pump	Sub Pump
JCO20973	412163	4434	2250	18229.00
JCO13613	201211296	4999	91350103	1874.00

Form #: FF-03 Approved by: KS 10/1/2015

February 18, 2020

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

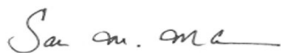
RE: Project: 2002390
Pace Project No.: 35530195

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sakina McKenzie
sakina.mckenzie@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman, Sanders Laboratories, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2002390

Pace Project No.: 35530195

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2002390

Pace Project No.: 35530195

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35530195001	2002390-001	Water	02/11/20 10:20	02/12/20 12:25
35530195002	2002390-002	Water	02/11/20 11:00	02/12/20 12:25
35530195003	2002390-003	Water	02/11/20 11:30	02/12/20 12:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2002390

Pace Project No.: 35530195

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35530195001	2002390-001	EPA 547	KH2	1	PASI-O
35530195002	2002390-002	EPA 547	KH2	1	PASI-O
35530195003	2002390-003	EPA 547	KH2	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2002390
Pace Project No.: 35530195

Sample: 2002390-001		Lab ID: 35530195001		Collected: 02/11/20 10:20		Received: 02/12/20 12:25		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		02/17/20 17:19		
Sample: 2002390-002		Lab ID: 35530195002		Collected: 02/11/20 11:00		Received: 02/12/20 12:25		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		02/17/20 17:35		
Sample: 2002390-003		Lab ID: 35530195003		Collected: 02/11/20 11:30		Received: 02/12/20 12:25		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		02/17/20 17:51		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2002390
Pace Project No.: 35530195

QC Batch: 610905 Analysis Method: EPA 547
QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
Associated Lab Samples: 35530195001, 35530195002, 35530195003

METHOD BLANK: 3319841 Matrix: Water
Associated Lab Samples: 35530195001, 35530195002, 35530195003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Glyphosate	mg/L	0.0042 U	0.0060	0.0042	02/17/20 15:30	

LABORATORY CONTROL SAMPLE: 3319842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	mg/L	0.05	0.048	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3319843 3319844

Parameter	Units	35531267001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	0.0042 U	0.05	0.05	0.047	0.047	95	94	80-120	1	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3319845 3319846

Parameter	Units	35530387002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	<4.2 ug/L	0.05	0.05	0.048	0.048	97	96	80-120	1	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2002390
Pace Project No.: 35530195

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2002390

Pace Project No.: 35530195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35530195001	2002390-001	EPA 547	610905		
35530195002	2002390-002	EPA 547	610905		
35530195003	2002390-003	EPA 547	610905		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Omega COCID 11697

PAGE: 1

OF: 1

WO#: 35530195



35530195

ADDRESS

Ft. Myers Lab02

10090 Bavaria Rd.

Fort Myers, FL 33913

TEL: (239) 590-0337

FAX: (239) 590-0536

Website: www.sanderslabs.net

SUB CONTRACTOR: Pace		COMPANY: Pace Analytical		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS: 8 East Tower Circle							
CITY, STATE, ZIP: Ormond Beach, FL 32174							
PHONE: (386) 676-4837 FAX: (386) 673-4001 EMAIL:							
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	2002390-001E	SW-1		Surface Water	2/11/2020 10:20:00 AM	1	SW - Glyphosate EPA 547
	See Attached						
2	2002390-002E	SW-3		Surface Water	2/11/2020 11:00:00 AM	1	SW - Glyphosate EPA 547
	See Attached						
3	2002390-003E	SW-2		Surface Water	2/11/2020 11:30:00 AM	1	SW - Glyphosate EPA 547
	See Attached						

Relinquished By: <i>[Signature]</i>	Date: <i>2/11/20</i>	Time: <i>1700</i>	Received By: <i>AS/Pace</i>	Date: <i>2/11/20</i>	Time: <i>1735</i>	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard ☐ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						Temp of samples _____ °C Attempt to Cool? _____	
Note: RUSH requests will incur surcharges!						Comments: _____	

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

WO#: 35530195

Form (SCUR)

Project Manager: **PM: SMM Due Date: 02/26/20**
CLIENT: SANLAB

Date and Initials of person:

Examining contents: AS

Label: _____

Deliver: _____

pH: _____

Thermometer Used: 7-249 Date: 2-12-20 Time: 1231 Initials: JSI

State of Origin: _____ ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C <u>1.0</u> (Visual) <u>-0.1</u> (Correction Factor) <u>4.8</u> (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) <u>0.9</u> (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☒ Ground ☐ International Priority

☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 69612018 8386113 0030813

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☐ No ☒ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☒ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____

Date: _____

March 03, 2020

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

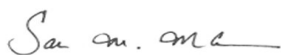
RE: Project: 2002390
Pace Project No.: 35532182

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sakina McKenzie
sakina.mckenzie@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman, Sanders Laboratories, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2002390

Pace Project No.: 35532182

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2002390

Pace Project No.: 35532182

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35532182001	2002390-001	Water	02/11/20 10:20	02/20/20 12:20
35532182002	2002390-002	Water	02/11/20 11:00	02/20/20 12:20
35532182003	2002390-003	Water	02/11/20 11:30	02/20/20 12:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2002390
Pace Project No.: 35532182

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35532182001	2002390-001	TKN+NOx Calculation	MRS	1	PASI-O
		EPA 351.2	MRS	1	PASI-O
		EPA 353.2	MH1	1	PASI-O
		EPA 365.3	KLT	1	PASI-O
35532182002	2002390-002	TKN+NOx Calculation	MRS	1	PASI-O
		EPA 351.2	MRS	1	PASI-O
		EPA 353.2	MH1	1	PASI-O
		EPA 365.3	KLT	1	PASI-O
35532182003	2002390-003	TKN+NOx Calculation	MRS	1	PASI-O
		EPA 351.2	MRS	1	PASI-O
		EPA 353.2	MH1	1	PASI-O
		EPA 365.3	KLT	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2002390
Pace Project No.: 35532182

Sample: 2002390-001		Lab ID: 35532182001		Collected: 02/11/20 10:20		Received: 02/20/20 12:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.86	mg/L	0.50	0.086	1		02/27/20 12:35		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.77	mg/L	0.50	0.086	1	02/24/20 11:48	02/26/20 09:33	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.090	mg/L	0.050	0.033	1		02/21/20 21:12		
365.3 Phosph. Total Low Level		Analytical Method: EPA 365.3 Preparation Method: EPA 365.3							
Phosphorus, Total (as P) LL	0.021	mg/L	0.0040	0.0028	1	02/25/20 20:25	02/25/20 22:18	7723-14-0	

Sample: 2002390-002		Lab ID: 35532182002		Collected: 02/11/20 11:00		Received: 02/20/20 12:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.38 I	mg/L	0.50	0.086	1		02/27/20 12:35		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.38 I	mg/L	0.50	0.086	1	02/24/20 11:48	02/26/20 09:34	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.033 U	mg/L	0.050	0.033	1		02/21/20 21:14		
365.3 Phosph. Total Low Level		Analytical Method: EPA 365.3 Preparation Method: EPA 365.3							
Phosphorus, Total (as P) LL	0.010	mg/L	0.0040	0.0028	1	02/25/20 20:25	02/25/20 22:19	7723-14-0	

Sample: 2002390-003		Lab ID: 35532182003		Collected: 02/11/20 11:30		Received: 02/20/20 12:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.81	mg/L	0.50	0.086	1		02/27/20 12:35		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.81	mg/L	0.50	0.086	1	02/24/20 11:48	02/26/20 09:35	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.033 U	mg/L	0.050	0.033	1		02/21/20 21:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2002390
Pace Project No.: 35532182

Sample: 2002390-003		Lab ID: 35532182003		Collected: 02/11/20 11:30		Received: 02/20/20 12:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.3 Phosph. Total Low Level									
Analytical Method: EPA 365.3 Preparation Method: EPA 365.3									
Phosphorus, Total (as P) LL	0.026	mg/L	0.0040	0.0028	1	02/25/20 20:25	02/25/20 22:20	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2002390
Pace Project No.: 35532182

QC Batch: 612567 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 35532182001, 35532182002, 35532182003

METHOD BLANK: 3328513 Matrix: Water
Associated Lab Samples: 35532182001, 35532182002, 35532182003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	02/26/20 09:09	

LABORATORY CONTROL SAMPLE: 3328514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	21.0	105	90-110	

MATRIX SPIKE SAMPLE: 3328516

Parameter	Units	35530864002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	35.3	80	122	109	90-110	

MATRIX SPIKE SAMPLE: 3328518

Parameter	Units	35532113001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	9.1	20	30.4	107	90-110	

SAMPLE DUPLICATE: 3328515

Parameter	Units	35530864002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	35.3	38.0	8	20	

SAMPLE DUPLICATE: 3328517

Parameter	Units	35532113001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	9.1	9.1	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2002390
Pace Project No.: 35532182

QC Batch: 612327 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35532182001, 35532182002, 35532182003

METHOD BLANK: 3326958 Matrix: Water
Associated Lab Samples: 35532182001, 35532182002, 35532182003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.050	0.033	02/21/20 15:36	

LABORATORY CONTROL SAMPLE: 3326959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	1.9	94	90-110	

MATRIX SPIKE SAMPLE: 3326961

Parameter	Units	35531821001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.35	2	2.2	90	80-120	

MATRIX SPIKE SAMPLE: 3326963

Parameter	Units	35532113001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.16	2	2.1	96	90-110	

SAMPLE DUPLICATE: 3326960

Parameter	Units	35531821001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.35	0.35	0	20	

SAMPLE DUPLICATE: 3326962

Parameter	Units	35532113001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.16	0.16	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2002390

Pace Project No.: 35532182

QC Batch: 613060 Analysis Method: EPA 365.3
QC Batch Method: EPA 365.3 Analysis Description: 365.3 Low Level Total Phosphorus
Associated Lab Samples: 35532182001, 35532182002, 35532182003

METHOD BLANK: 3330459 Matrix: Water

Associated Lab Samples: 35532182001, 35532182002, 35532182003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.0028 U	0.0040	0.0028	02/25/20 22:01	

LABORATORY CONTROL SAMPLE: 3330460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.1	0.10	100	90-110	

MATRIX SPIKE SAMPLE: 3330462

Parameter	Units	35531653001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.0092	0.1	0.12	94	80-120	

SAMPLE DUPLICATE: 3330461

Parameter	Units	35531653001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.0092	0.023	13	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2002390
Pace Project No.: 35532182

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2002390

Pace Project No.: 35532182

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35532182001	2002390-001	TKN+NOx Calculation	613787		
35532182002	2002390-002	TKN+NOx Calculation	613787		
35532182003	2002390-003	TKN+NOx Calculation	613787		
35532182001	2002390-001	EPA 351.2	612567	EPA 351.2	613230
35532182002	2002390-002	EPA 351.2	612567	EPA 351.2	613230
35532182003	2002390-003	EPA 351.2	612567	EPA 351.2	613230
35532182001	2002390-001	EPA 353.2	612327		
35532182002	2002390-002	EPA 353.2	612327		
35532182003	2002390-003	EPA 353.2	612327		
35532182001	2002390-001	EPA 365.3	613060	EPA 365.3	613172
35532182002	2002390-002	EPA 365.3	613060	EPA 365.3	613172
35532182003	2002390-003	EPA 365.3	613060	EPA 365.3	613172

REPORT OF LABORATORY ANALYSIS

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WO#: 35532182



35532182

RECORD

Omega COCID 11762

PAGE: 1

OF: 1

Receipt
3 00245708Shipper Number
8386113

ADDRESS

Nokomis Lab01
1050 Endeavor Court
Nokomis, FL 34275
TEL: (941) 234-1000
FAX: (941) 484-6774
Website: www.sanderslabs.net

SUB CONTRACTOR: Pace		COMPANY: Pace Analytical		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS: 8 East Tower Circle							
CITY, STATE, ZIP: Ormond Beach, FL 32174							
PHONE: (386) 676-4837 FAX: (386) 673-4001 EMAIL:							
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2002390-001B E351.2, E365.4	SW-1	250PL-H2SO4	Surface Water	2/11/2020 10:20:00 AM	1	SW - low-level Total Nitrogen, low-level Total Phosphorus
2	2002390-002B E351.2, E365.4	SW-3	250PL-H2SO4	Surface Water	2/11/2020 11:00:00 AM	1	SW - low-level Total Nitrogen, low-level Total Phosphorus
3	2002390-003B E351.2, E365.4	SW-2	250PL-H2SO4	Surface Water	2/11/2020 11:30:00 AM	1	SW - low-level Total Nitrogen, low-level Total Phosphorus

Relinquished By: <i>[Signature]</i>	Date: <i>2/19/2020</i>	Time: <i>17:00</i>	Received By: <i>L.A. Pace</i>	Date: <i>2-20-20</i>	Time: <i>1220</i>	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard ☒ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						Temp of samples <i>3.2</i> °C Attempt to Cool? _____	
Note: RUSH requests will incur surcharges!						Comments: _____	

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

WO#: 35532182

Project #
Project Manager:
Client:

PM: **SMM** Due Date: **02/27/20**
CLIENT: **SANLAB**

Date and Initials of person:
Examining contents:
Label: _____
Deliver: _____
pH: _____

Thermometer Used: T353

Date: 02/20/20

Time: 1229

Initials: URA

State of Origin: _____

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C 3.1 (Visual) +1.1 (Correction Factor) 3.2 (Actual)

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☒ Ground ☐ International Priority

☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

8386113

00245708

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____

Date: _____

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

110 South Hill Street
 South Bend, IN 46617
 Tel: (574) 233-4777
 Fax: (574) 233-8207
 1 800 332 4345

Laboratory Report

Client: Sanders Laboratories, Inc

Attn: Katie Strothman
 10090 Bavaria Road
 Fort Myers, FL 33913

Report: 478138
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4562283	2002390-001D/SW-1	S150	02/11/20 10:20	Client	02/12/20 09:30
4562284	2002390-002D/SW-3	S150	02/11/20 11:00	Client	02/12/20 09:30
4562285	2002390-003D/SW-2	S150	02/11/20 11:30	Client	02/12/20 09:30

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jessie Brasch at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.



Analytical Services Manager

Authorized Signature

Title

02/28/2020

Date

Client Name: Sanders Laboratories, Inc

Report #: 478138

Sampling Point: 2002390-001D/SW-1

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	02/13/20 08:02	02/14/20 13:50	4562283

Sampling Point: 2002390-002D/SW-3

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	02/13/20 08:02	02/14/20 14:21	4562284

Sampling Point: 2002390-003D/SW-2

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	02/13/20 08:02	02/14/20 14:51	4562285

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



CHAIN OF CUSTODY RECORD

Omega COCID 11696

PAGE: 1

OF: 1

ADDRESS

Ft. Myers Lab02

10090 Bavaria Rd.

Fort Myers, FL 33913

TEL: (239) 590-0337

FAX: (239) 590-0536

Website: www.sanderslabs.net

361313

478138

SUB CONTRACTOR: Eurofins		COMPANY:		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS:							
CITY, STATE, ZIP:							
PHONE: FAX: EMAIL:							
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2002390-001D	SW-1		Surface Water	2/11/2020 10:20:00 AM	1	SW - Fipronil
	See Attached						
2	2002390-002D	SW-3		Surface Water	2/11/2020 11:00:00 AM	1	SW - Fipronil
	See Attached						
3	2002390-003D	SW-2		Surface Water	2/11/2020 11:30:00 AM	1	SW - Fipronil
	See Attached						

4562.283
284
285

Relinquished By: <i>[Signature]</i>	Date: 2/11/20	Time: 1700	Received By: <i>[Signature]</i>	Date:	Time:	REPORT TRANSMITTAL DESIRED:			
Relinquished By:	Date:	Time:	Received By: <i>[Signature]</i>	Date: 2-12-2020	Time: 0930	☐ HARDCOPY (extra cost)	☐ FAX	☐ EMAIL	☐ ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY			
TAT: Standard ☐ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						Temp of samples 1.8 °C Attempt to Cool? Wet			
Note: RUSH requests will incur surcharges!						Comments:			

Eurofins Eaton Analytical

Run Log

Run ID: 271906 Method: S150

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCC	4564636	2002390-001D/SW-1	OS	DN	02/14/2020 10:45	S150-DN-031516.mth
LFB	4563809		RW	DN	02/14/2020 11:16	S150-DN-031516.mth
LMB	4563807		RW	DN	02/14/2020 12:48	S150-DN-031516.mth
FS	4562283		DW	DN	02/14/2020 13:50	S150-DN-031516.mth
FS	4562284		DW	DN	02/14/2020 14:21	S150-DN-031516.mth
FS	4562285		DW	DN	02/14/2020 14:51	S150-DN-031516.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Acenaphthene-d10	S150	N/A	---		590687	876286	ug/L	67	50 - 150	---	---	1.0	02/13/2020 08:02	02/14/2020 10:45	4564636
CCC	IS-Chrysene-d12	S150	N/A	---		364372	626792	ug/L	58	50 - 150	---	---	1.0	02/13/2020 08:02	02/14/2020 10:45	4564636
CCC	IS-Phenanthrene-d10	S150	N/A	---		495146	744704	ug/L	66	50 - 150	---	---	1.0	02/13/2020 08:02	02/14/2020 10:45	4564636
CCC	SS-Triphenylphosphate	S150	N/A	---		5.4080	5.0	ug/L	108	70 - 130	---	---	1.0	02/13/2020 08:02	02/14/2020 10:45	4564636
CCC	Fipronil	S150	0.5	---		6.3980	5.0	ug/L	128	67 - 152	---	---	1.0	02/13/2020 08:02	02/14/2020 10:45	4564636
LFB	IS-Acenaphthene-d10	S150	N/A	---		573780	876286	ug/L	65	50 - 150	---	---	1.0	02/13/2020 08:02	02/14/2020 11:16	4563809
LFB	IS-Chrysene-d12	S150	N/A	---		368101	626792	ug/L	59	50 - 150	---	---	1.0	02/13/2020 08:02	02/14/2020 11:16	4563809
LFB	IS-Phenanthrene-d10	S150	N/A	---		461954	744704	ug/L	62	50 - 150	---	---	1.0	02/13/2020 08:02	02/14/2020 11:16	4563809
LFB	SS-Triphenylphosphate	S150	N/A	---		5.4540	5.0	ug/L	109	70 - 130	---	---	1.0	02/13/2020 08:02	02/14/2020 11:16	4563809
LFB	Fipronil	S150	0.5	---		6.7590	5.0	ug/L	135	65 - 141	---	---	1.0	02/13/2020 08:02	02/14/2020 11:16	4563809
LMB	IS-Acenaphthene-d10	S150	N/A	---		586330	876286	ug/L	67	50 - 150	---	---	0.97	02/13/2020 08:02	02/14/2020 12:48	4563807
LMB	IS-Chrysene-d12	S150	N/A	---		346599	626792	ug/L	55	50 - 150	---	---	0.97	02/13/2020 08:02	02/14/2020 12:48	4563807
LMB	IS-Phenanthrene-d10	S150	N/A	---		465488	744704	ug/L	63	50 - 150	---	---	0.97	02/13/2020 08:02	02/14/2020 12:48	4563807
LMB	SS-Triphenylphosphate	S150	N/A	---		5.5280	5.0	ug/L	114	70 - 130	---	---	0.97	02/13/2020 08:02	02/14/2020 12:48	4563807
LMB	Fipronil	S150	0.5	---	<	0.5		ug/L	---	---	---	---	0.97	02/13/2020 08:02	02/14/2020 12:48	4563807
FS	IS-Acenaphthene-d10	S150	N/A	2002390-001D/SW-1		555715	876286	ug/L	63	50 - 150	---	---	0.95	02/13/2020 08:02	02/14/2020 13:50	4562283
FS	IS-Chrysene-d12	S150	N/A	2002390-001D/SW-1		373903	626792	ug/L	60	50 - 150	---	---	0.95	02/13/2020 08:02	02/14/2020 13:50	4562283
FS	IS-Phenanthrene-d10	S150	N/A	2002390-001D/SW-1		459087	744704	ug/L	62	50 - 150	---	---	0.95	02/13/2020 08:02	02/14/2020 13:50	4562283
FS	SS-Triphenylphosphate	S150	N/A	2002390-001D/SW-1		5.3740	5.0	ug/L	113	70 - 130	---	---	0.95	02/13/2020 08:02	02/14/2020 13:50	4562283
FS	Fipronil	S150	0.5	2002390-001D/SW-1	<	0.5		ug/L	---	---	---	---	0.95	02/13/2020 08:02	02/14/2020 13:50	4562283
FS	IS-Acenaphthene-d10	S150	N/A	2002390-002D/SW-3		539789	876286	ug/L	62	50 - 150	---	---	0.95	02/13/2020 08:02	02/14/2020 14:21	4562284
FS	IS-Chrysene-d12	S150	N/A	2002390-002D/SW-3		365026	626792	ug/L	58	50 - 150	---	---	0.95	02/13/2020 08:02	02/14/2020 14:21	4562284
FS	IS-Phenanthrene-d10	S150	N/A	2002390-002D/SW-3		443290	744704	ug/L	60	50 - 150	---	---	0.95	02/13/2020 08:02	02/14/2020 14:21	4562284
FS	SS-Triphenylphosphate	S150	N/A	2002390-002D/SW-3		5.4350	5.0	ug/L	114	70 - 130	---	---	0.95	02/13/2020 08:02	02/14/2020 14:21	4562284
FS	Fipronil	S150	0.5	2002390-002D/SW-3	<	0.5		ug/L	---	---	---	---	0.95	02/13/2020 08:02	02/14/2020 14:21	4562284
FS	IS-Acenaphthene-d10	S150	N/A	2002390-003D/SW-2		584067	876286	ug/L	67	50 - 150	---	---	0.96	02/13/2020 08:02	02/14/2020 14:51	4562285
FS	IS-Chrysene-d12	S150	N/A	2002390-003D/SW-2		406796	626792	ug/L	65	50 - 150	---	---	0.96	02/13/2020 08:02	02/14/2020 14:51	4562285
FS	IS-Phenanthrene-d10	S150	N/A	2002390-003D/SW-2		492157	744704	ug/L	66	50 - 150	---	---	0.96	02/13/2020 08:02	02/14/2020 14:51	4562285
FS	SS-Triphenylphosphate	S150	N/A	2002390-003D/SW-2		5.3270	5.0	ug/L	111	70 - 130	---	---	0.96	02/13/2020 08:02	02/14/2020 14:51	4562285
FS	Fipronil	S150	0.5	2002390-003D/SW-2	<	0.5		ug/L	---	---	---	---	0.96	02/13/2020 08:02	02/14/2020 14:51	4562285

Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCC	Continuing Calibration Check
FS	Field Sample
LFB	Laboratory Fortified Blank
LMB	Laboratory Method Blank

END OF REPORT