FINAL

REMOTE SENSING OF NITROGEN AND PHOSPHOROUS ON LAND AND WATER

Sampling and Data Report

June 25, 2021

B&V PROJECT NO. 409148
SFWMD WORK ORDER NO. 46000003988-WO04
TASK 1.1.2

PREPARED FOR:

SFWMD

BLACK & VEATCH

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SFWMD - Lake Okeechobee Remote Sensing Field Work

Reference Map - Sampling locations

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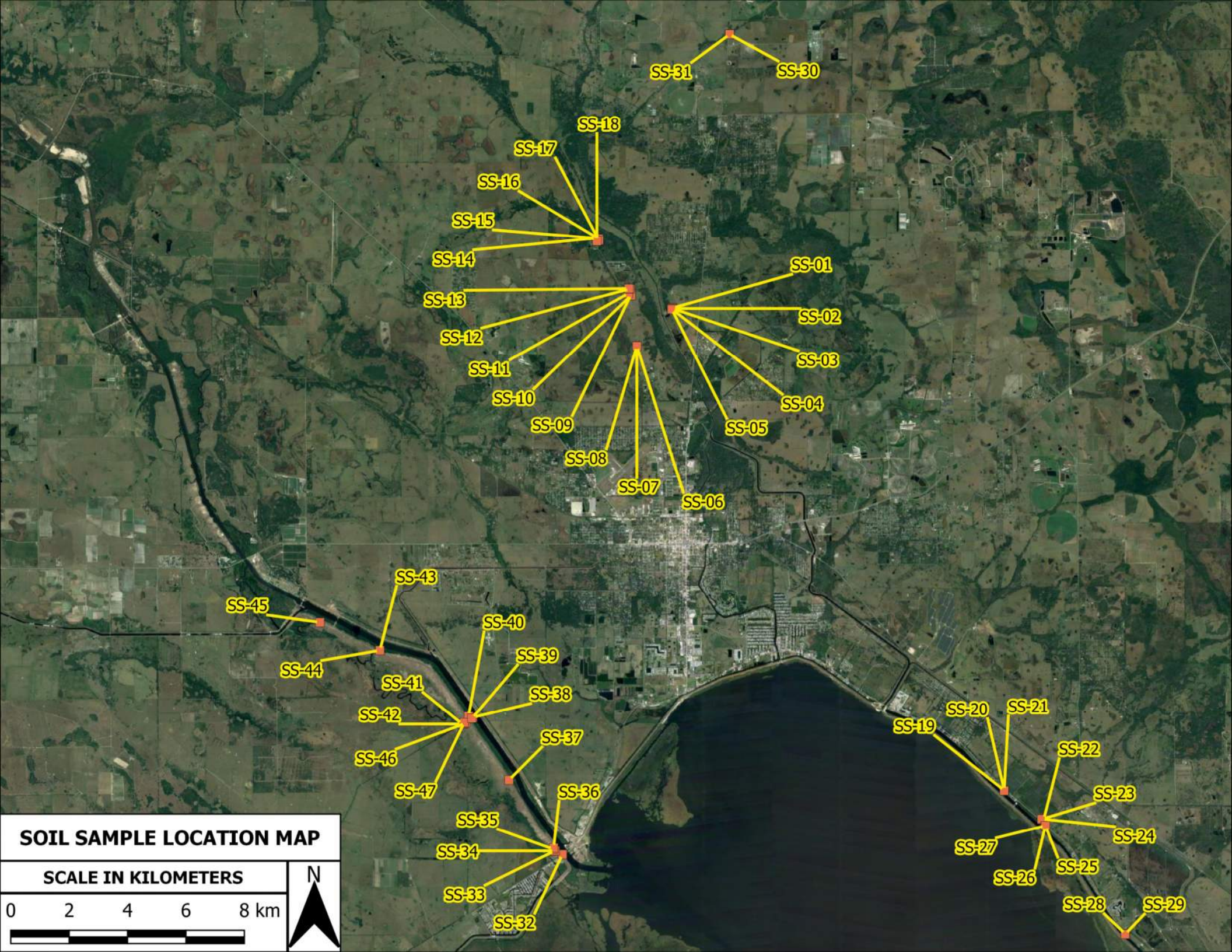
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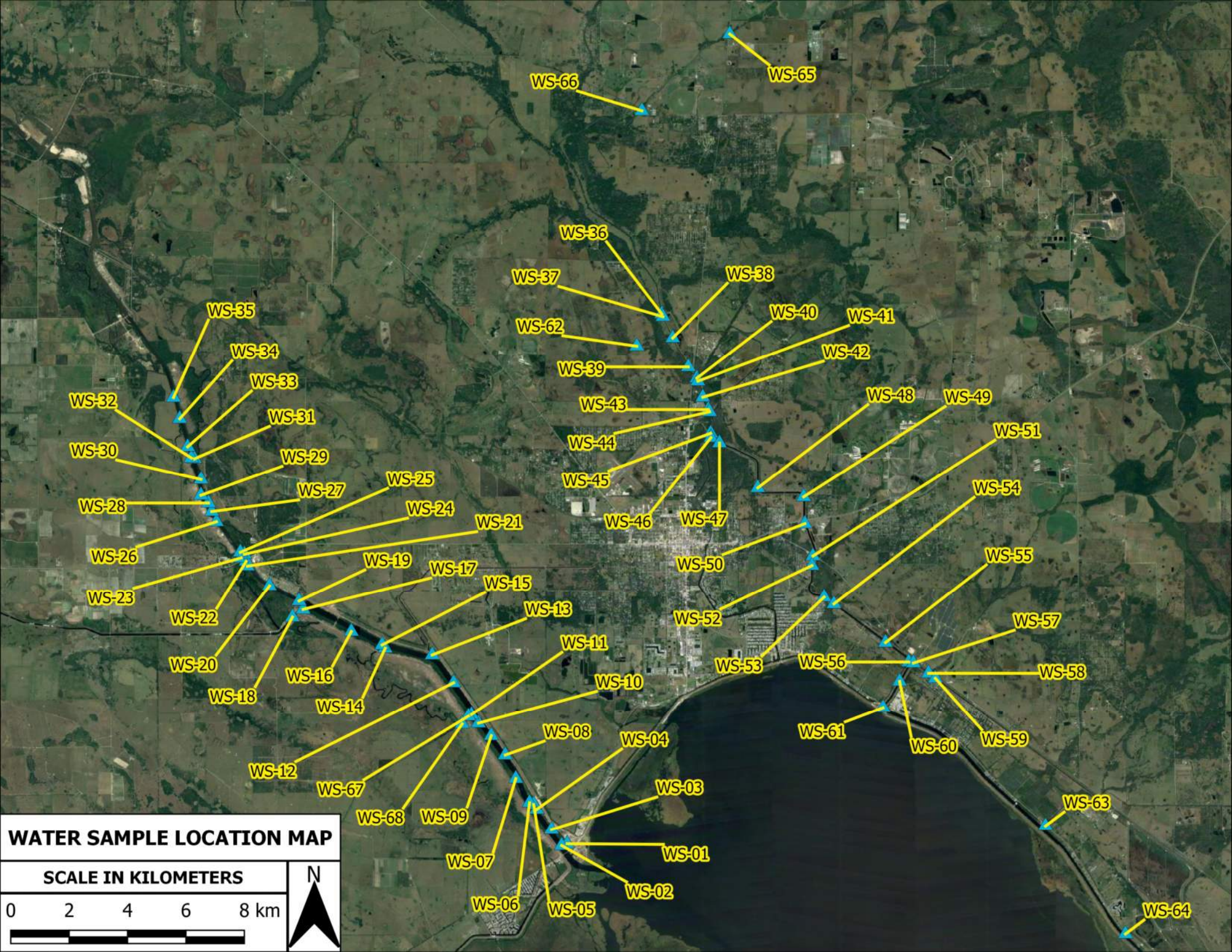
SOIL SAMPLE LOCATION MAP
SCALE IN KILOMETERS
0 2 4 6 8 km
N


WS-65
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WS-67
WS-03
WS-63
WS-68
WS-09
WS-01
WS-07
WS-02
WS-06
WS-05
WS-64
WATER SAMPLE LOCATION MAP
SCALE IN KILOMETERS
0 2 4 6 8 km
N

SFWMD - Lake Okeechobee Remote Sensing Field Work

Black and Veatch - Daily reports

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DAILY SHIFT REPORT

Lake Okeechobee Remote Sensing

DATE(S) & TIME(S): May 24, 2021
0730 - 1630

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	X					

Weather	Clear	Overcast	Rain	Heavy Rain
	X			
Temperature	32 - 50	50 - 70	70 - 85	> 85
				X
Wind	Still	Medium	High	
		X		
Humidity	Dry	Moderate	Humid	**Report No.**
		X		**1**

PROJECT TECHNICAL LEAD: Jon Dinges/Black & Veatch

OWNER: SFWMD

SHIFT SUMMARY

OBSERVER: JD. Villalobos

ACTIVITY: Spectral data and water sample collection

TIME	DESCRIPTION
0730	J. Villalobos/BV on site.
0750	Z. Dobey and S. Joshi/Satelytics crew on site.
0755	C. Dickenson and D. Goodding/GPI crew on site.
0800	Coordination call between GPI, BV, SFWMD and Satelytics regarding the boat sampling itinerary along the Kissimmee River. All sampling events will follow Florida Department of Environmental Protection (FDEP) standard operating procedures (SOP) for water sampling. Also, GPI will be in charge of filling out all the corresponding chain of custody forms.
0830	Satelytics crew calibrating the spectrometer tool.
0900	Depart boat launch for Kissimmee River sampling.
0908	Satelytics will be in charge of taking spectrometer data and marking the GPS locations. GPI will be taking water quality samples and GPS locations as well. Water quality parameters to be monitored include pH, salinity, temperature, specific conductivity and dissolved oxygen.
0929	Water Sample (WS) 01 and spectrometric data collected.
0938	WS-02 and spectrometric data collected.
0950	WS-03 and spectrometric data collected.
1003	WS-04 and spectrometric data collected.
1010	WS-05 and spectrometric data collected.
1018	WS-06 and spectrometric data collected.
1031	WS-07 and spectrometric data collected.
1039	WS-08 and spectrometric data collected.
1053	WS-09 and spectrometric data collected.
1108	WS-10 and spectrometric data collected.

1119	WS-11 and spectrometric data collected.
1125	Extra spectrometric data collected.
1135	WS-12 and spectrometric data collected.
1149	WS-13 and spectrometric data collected.
1200	WS-14 and spectrometric data collected.
1211	WS-15 and spectrometric data collected.
1218	WS-16 and spectrometric data collected. Z. Dobey/Satelytics measuring solar intensity.
1222	WS-17 and spectrometric data collected. Z. Dobey/Satelytics measuring solar intensity.
1246	WS-18 and spectrometric data collected.
1254	Extra spectrometric data collected.
1316	WS-19 and spectrometric data collected.
1328	WS-20 and spectrometric data collected.
1332	WS-21 and spectrometric data collected.
1337	WS-22 and spectrometric data collected.
1345	WS-23 and spectrometric data collected.
1351	WS-24 and spectrometric data collected.
1400	WS-25 and spectrometric data collected.
1417	WS-26 and spectrometric data collected.
1420	WS-27 and spectrometric data collected.
1437	WS-28 and spectrometric data collected.
1443	WS-29 and spectrometric data collected.
1450	WS-30 and spectrometric data collected.
1500	WS-31 and spectrometric data collected.
1506	WS-32 and spectrometric data collected.
1524	WS-33 and spectrometric data collected.
1537	WS-34 and spectrometric data collected.
1542	WS-35 and spectrometric data collected.
1803	Field data collection and sample acquisition completed.
1830	J. Villalobos/BV, C. Dickenson and D. Goodding/GPI, Z. Dobey and S. Joshi/Satelytics off site.

Figure 1 (left) Satelytics team acquiring spectrometric data.
Figure 2 (right) GPI team collecting water samples, boat wake was minimized throughout each water sampling event.

Figure 3. Water sample numbers 28,29 and 30 were collected near agricultural land where runoff may contain high nutrient concentrations.

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DAILY SHIFT REPORT

Lake Okeechobee Remote Sensing

DATE(S) & TIME(S): May 25, 2021
0730 - 1630

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		X				

Weather	Clear	Overcast	Rain	Heavy Rain
	X			
Temperature	32 - 50	50 - 70	70 - 85	> 85
				X
Wind	Still	Medium	High	
		X		
Humidity	Dry	Moderate	Humid	**Report No.**
		X		**2**

PROJECT TECHNICAL LEAD: Jon Dinges/Black & Veatch

OWNER: SFWMD

SHIFT SUMMARY

OBSERVER: JD. Villalobos

ACTIVITY: Spectral data and Water sample collection

TIME	DESCRIPTION
0730	J. Villalobos/BV, C. Dickenson and D. Goodding/GPI on site.
0745	Z. Dobey and S. Joshi/Satelytics crew on site.
0755	Unloading boats into Taylor Creek.
0800	Coordination call between GPI, BV, SFWMD and Satelytics regarding the boat sampling itinerary along the Taylor Creek. All sampling events will follow Florida Department of Environmental Protection (FDEP) standard operating procedures (SOP) for water sampling. Also, GPI will be in charge of filling out all the corresponding chain of custody forms.
0815	Satelytics crew calibrating the spectrometer tool.
0830	Depart boat launch for Kissimmee River sampling.
0903	Algae content decreased significantly upstream the silt screen located at Taylor Creek.
0930	Water Sample (WS) 36 and spectrometric data collected. Z. Dobey/Satelytics measuring solar intensity.
0949	WS-37 and spectrometric data collected (Refer to **Picture 1**).
1006	WS-38 and spectrometric data collected.
1021	WS-39 and spectrometric data collected.
1035	WS-40 and spectrometric data collected.
1045	WS-41 and spectrometric data collected.
1056	WS-42 and spectrometric data collected.
1106	WS-43 and spectrometric data collected.
1123	WS-44 and spectrometric data collected.
1136	WS-45 and spectrometric data collected.
1144	WS-46 and spectrometric data collected.

1157	WS-47 and spectrometric data collected.
1210	WS-48 and spectrometric data collected. Z. Dobey/Satelytics measuring solar intensity.
1226	WS-49 and spectrometric data collected. High cyanobacteria building observed (Refer to **Picture 2**).
1236	WS-50 and spectrometric data collected.
1249	WS-51 and spectrometric data collected.
1256	WS-52 and spectrometric data collected.
1311	WS-53 and spectrometric data collected.
1254	WS-54 and spectrometric data collected.
1324	WS-55 and spectrometric data collected.
1334	WS-56 and spectrometric data collected.
1350	WS-57 and spectrometric data collected.
1405	WS-58 and spectrometric data collected.
1417	WS-59 and spectrometric data collected (Refer to **Picture 3**).
1430	WS-60 and spectrometric data collected.
1440	Extra water sample (WS-61) and extra spectrometric data collected.
1452	Field data collection and sample acquisition completed. A total of (26) spectrometric data sampling
1530	stations were studied along Taylor Creek, including the collection of (26) water quality samples.
1620	J. Villalobos/BV, C. Dickenson and D. Goodding/GPI, Z. Dobey and S. Joshi/Satelytics off site.

Figure 1. GPI team collecting water samples right after the Satelytics team acquired spectrometric data.

Figure 2. High cyanobacteria and algae build up near the sampling location of WS49.

Figure 3. WS58 sampling location.

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DAILY SHIFT REPORT

Lake Okeechobee Remote Sensing

DATE(S) & TIME(S): May 26, 2021
0800 - 1600

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			X			

Weather	Clear	Overcast	Rain	Heavy Rain
	X			
Temperature	32 - 50	50 - 70	70 - 85	> 85
				X
Wind	Still	Medium	High	
		X		
Humidity	Dry	Moderate	Humid	**Report No.**
		X		**1**

PROJECT TECHNICAL LEAD: Jon Dinges/Black & Veatch

OWNER: SFWMD

SHIFT SUMMARY

OBSERVER: JD. Villalobos

ACTIVITY: Spectral data and Soil and Water sample collection

TIME	DESCRIPTION
0800	Coordination call between GPI, BV, SFWMD and Satelytics regarding the soil sampling itinerary around the north portion of Okeechobee. All sampling events will follow Florida Department of Environmental Protection (FDEP) standard operating procedures (SOP) for soil sampling. Also, GPI will be in charge of filling out all corresponding chain of custody forms.
0830	J. Villalobos/BV, C. Dickenson and D. Goodding/GPI on site.
0900	Z. Dobey and S. Joshi/Satelytics crew on site.
0955	Arrival at first sampling location.
1030	Satelytics crew calibrating the spectrometer. Note: The soil spectrometric data acquisition procedure consists in taking surficial spectral data of the soil, then scraping the surface and mixing it up a little in an attempt to get stronger spectral signatures. Afterwards, spectral data is acquired again and then the soil sample is obtained. After each sampling event, GPI crew cleans the sampling tool with luminox and performs a rinse with distilled water.
1037	Soil Sample (SS) 01 and spectrometric data collected. Z. Dobey/Satelytics measuring solar intensity. GPS ID: 797. (The GPS ID correspond to the locations marked by Satelytics).
1051	SS-02 and spectrometric data collected. GPS ID: 798.
1101	SS-03 and spectrometric data collected. GPS ID: 799.
1104	Mixed soil sample SS-04 obtained and spectrometric data collected. GPS IDs: 800, 801 and 802. Note: For mixed soiled samples, data and soil is collected from three sampling spots. The three soil samples are then mixed, spectrometric data is collected from the mixture and the soil is put into a sampling container.
1114	SS-05 and spectrometric data collected. GPS ID: 803.
1218	SS-06 and spectrometric data collected. GPS ID: 804.

1224 SS-07 and spectrometric data collected. GPS ID: 805.
1230 SS-08 and spectrometric data collected. GPS ID: 806.
1231 Water Sample-062 and spectrometric data collected. GPS ID: 807. (Refer to **Picture 1**).
1324 SS-09 and spectrometric data collected. GPS ID: 808. (Refer to **Picture 2**).
1331 SS-10 and spectrometric data collected. GPS ID: 809.
1351 SS-11 and spectrometric data collected. GPS ID: 810.
1410 SS-12 and spectrometric data collected. GPS ID: 811.
1417 SS-13 and spectrometric data collected. GPS ID: 812.
1502 SS-14 and spectrometric data collected. GPS ID: 813.
1510 SS-15 and spectrometric data collected in an organic-rich stream bed. GPS ID: 814.
1520 Mix soil sample SS-16 obtained and spectrometric data collected. GPS IDs: 815, 816 and 817.
1533 SS-17 and spectrometric data collected. GPS ID: 818.
1539 SS-18 and spectrometric data collected. GPS ID: 819.
1600 Field data collection and sample acquisition completed. A total of (18) soil samples were collected with their corresponding spectrometric data sampling stations along Northern Okeechobee, including the collection of (1) water quality sample.
J. Villalobos/BV, C. Dickenson and D. Goodding/GPI, Z. Dobey and S. Joshi/Satelytics off site.

Figure 1. GPI team collecting water samples right after the Satelytics team acquired spectrometric data.

Figure 2. Soil sample SS-09 collected from an iron-rich sand

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DAILY SHIFT REPORT

Lake Okeechobee Remote Sensing

DATE(S) & TIME(S): May 27, 2021
0800 - 1700

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				X		

Weather	Clear	Overcast	Rain	Heavy Rain
	X	X		
Temperature	32 - 50	50 - 70	70 - 85	> 85
				X
Wind	Still	Medium	High	
		X		
Humidity	Dry	Moderate	Humid	**Report No.**
		X		**4**

PROJECT TECHNICAL LEAD: Jon Dinges/Black & Veatch

OWNER: SFWMD

SHIFT SUMMARY

OBSERVER: JD. Villalobos

ACTIVITY: Spectral data and Soil and Water sample collection

TIME	DESCRIPTION
0800	Coordination call between GPI, BV, SFWMD and Satelytics regarding the soil sampling itinerary around the north portion of Okeechobee. All sampling events will follow Florida Department of Environmental Protection (FDEP) standard operating procedures (SOP) for soil sampling. Also, GPI will be in charge of filling out all the corresponding chain of custody forms.
0830	J. Villalobos/BV, C. Dickenson and D. Goodding/GPI on site.
0845	Z. Dobey and S. Joshi/Satelytics crew on site.
0957	Arrival at first sampling location.
1008	Soil Sample (SS) 19 and spectrometric data collected. GPS ID: 820. (The GPS ID correspond to the locations marked by Satelytics).
1013	SS-20 and spectrometric data collected. GPS ID: 821.
1021	SS-21 and spectrometric data collected. GPS ID: 822.
1045	SS-22 and spectrometric data collected. GPS ID: 823.
1051	SS-23 and spectrometric data collected. GPS ID: 824.
1056	SS-24 and spectrometric data collected. GPS ID: 825.
1114	Assembling the lake sampling device (Refer to **Picture 1**).
1116	SS-25 and spectrometric data collected. GPS ID: 828.
1121	SS-26 and spectrometric data collected. GPS ID: 829.
1128	SS-27 and spectrometric data collected. GPS ID: 830.
1155	Water Sample (WS)-063 and spectrometric data collected.
1300	

	The spectrometer sampling unit overheated. Waiting for it to cool down. Since only soil samples can
1334	be collected in the meantime, in these sampling stations extra soil will be gathered for later lab
1337	spectra analysis.
1359	Spectrometer unit is back online. SS-28 collected. GPS ID: 831.
1402	SS-29 collected. GPS ID: 832.
1405	Collecting spectral data at the location where SS-28 was obtained.
1506	Collecting spectral data at the location where SS-29 was obtained.
1514	WS-064 collected and water spectral data acquired. GPS ID= 833.
1546	SS-30 and spectrometric data collected. GPS ID: 834.
1552	SS-31 and spectrometric data collected. GPS ID: 835.
1628	Collecting water spectral data and WS-065. GPS ID= 836
1700	Collecting water spectral data. GPS ID= 837
	Collecting water spectral data and WS-066. GPS ID= 838 (Refer to **Picture 2**).
	Field data collection and sample acquisition completed. A total of (13) soil samples were collected with their corresponding spectrometric data sampling stations along Northern and southern Okeechobee, including the collection of (3) water quality samples.
	J. Villalobos/BV, C. Dickenson and D. Goodding/GPI, Z. Dobey and S. Joshi/Satelytics off site.

Figure 1. Lake sampling device collecting water samples and spectral data.

Figure 2. Collecting WS-066 and spectral data

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DAILY SHIFT REPORT

Lake Okeechobee Remote Sensing

DATE(S) & TIME(S): May 28, 2021
0900 - 1300

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				X		

Weather	Clear	Overcast	Rain	Heavy Rain
	X	X		
Temperature	32 - 50	50 - 70	70 - 85	> 85
				X
Wind	Still	Medium	High	
		X		
Humidity	Dry	Moderate	Humid	**Report No.**
		X		**5**

PROJECT TECHNICAL LEAD: Jon Dinges/Black & Veatch

OWNER: SFWMD

SHIFT SUMMARY

OBSERVER: Stephen Nelson

ACTIVITY: Spectral data and Soil and Water sample collection

TIME	DESCRIPTION
0800	Coordination call between GPI, BV, SFWMD and Satelytics regarding the soil sampling itinerary around the north portion of Okeechobee. All sampling events will follow Florida Department of Environmental Protection (FDEP) standard operating procedures (SOP) for soil sampling. Also, GPI will be in charge of filling out all the corresponding chain of custody forms.
0845	S. Nelson/BV, C. Dickenson and D. Goodding/GPI on site. Z. Dobey and S. Joshi/Satelytics crew on site.
0920	Arrived at first sampling location.
0925	White balance preparation and calibration performed.
0930	SS-32 and spectrometric data collected.
0940	SS-33 and spectrometric data collected.
0944	SS-34 and spectrometric data collected.
0950	SS-35 and spectrometric data collected.
0956	SS-36 and spectrometric data collected.
1020	SS-37 and spectrometric data collected.
1110	SS-38 and spectrometric data collected.
1120	SS-40 and spectrometric data collected.
	WS-067 and spectrometric data collected. (Taken at dike canal bank).
1200	WS-068 and spectrometric data collected. (Utilized peristaltic pump and water sampling device).
1214	SS-41 and spectrometric data collected.
1220	SS-42 and spectrometric data collected.
1304	Spectro no longer working, sampling crew switching to soil sampling only.
1309	SS-43 and spectrometric data collected.
1313	SS-44 and spectrometric data collected.

1330 Departed the sampling team to return to SFWMD office in West Palm Beach to return Master Key.

Figure 1. Collecting SS-39 and spectral data and spectral data.

Figure 2. Collecting WS-068 and spectral data and spectral data.

SFWMD - Lake Okeechobee Remote Sensing Field Work

GPI - Field Notes

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Onsite: 8:00

8:00 meeting

in river @ 9:05 ; WS-01 9:09

Personnel: Chelsea, Danny, ~~DT~~ JD, Jordan, Zach, and Sambhavi

- Arrived @ WS-02 09:38

5/24/21 Okeechobee Sampling

WS-01 Time: 0932

N: 27° 09' 03.64
W: 80° 52' 16.4653

25.92°C
214 µs/cm
40.0 DO%
3.25 DO mg/L
7.08 pH
283.4 ORP

WS-02 Time: 0940

26.86°C
214
39.0 DO%
3.11 DO mg/L
7.14 pH
289.2 ORP

N 27.150302
W -80.873208

WS-03 Time: 0954
- Arrived @ 09:51

26.84°C
2.13 ms/cm²
38.7 DO%
3.11 DO mg/L
7.14 pH
284.1 ORP
N 27.155531
W -80.876762

WS-04 Time: 1005
- Arrived at 1003

26.78°C
210 ms/cm²
CP ~~37~~ 38.2 DO%
3.05 mg/L - DO
7.09 pH
280.4 ORP
N 27.161852
W-80.881620

WS-05 Time: 1015
Tributary Site
- Arrived at: 1010

CP
~~27.08~~°C
27.12°C
210 ms/cm²
41.7 DO%
3.32 DO mg/L
7.19 pH
274.4 ORP
N 27.163211
W-80.882623

WS-06 Time: 1022
- Arrived at 10:18

27.05°C
210 ms/cm²
38.8 DO%
3.10 DO mg/L
7.15 pH
279.7 ORP
N 27.163727
W-80.884183

WS-07 Time: 1035
- Arrived at 10:30

27.25°C
210 ms/cm²
43.5 DO%
3.46 DO mg/L
7.47 pH
270.3 ORP
N 27.171117
W-80.888902

WS-08 Time: 1046
- Arrived at 1040

27.39°C
210 ms/cm²
50.7 DO%
4.02 DO mg/L
7.52 pH
275.6 ORP
N 27.178058
W-80.892658

WS-09 Time: 1058
- Arrived @: 10:55

27.33°C
210 µs/cm
47.9 DO%
3.80 DO mg/L
7.04 pH
271.1 ORP
N 27.184795
W -80.897530

WS-10 Time: 1114
Arrived @: 1110

27.29°C
209 µs/cm
52.5 DO%
4.14 DO mg/L
7.75 pH
265.6 ORP
N 27.188282
W -80.901814

WS-11 Time: 1131
Arrived @: 1120
Tributary site 2

27.22°C
209 µs/cm
52.8 DO%
4.19 DO mg/L
7.69 pH
266.2 ORP
N 27.190897
W-80.904141

WS-12 Time: 1142
Arrived @: 11:39

27.50°C
208 µs/cm
54.9 DO%
4.33 DO mg/L
8.02 pH
258.2 ORP
N 27.201043
W -80.910431

WS-13 Time: 1155
- Arrived @ 11:50

27.73°C
239 µs/cm
56.2 DO%
4.44 DO mg/L
8.25 pH
256.5 ORP
N 27.209465
W-80.917794

WS-14 Time: 1210
- Arrived 1205
- Tributary Site

27.04°C
204 µs/cm
55.6 DO%
4.41 DO mg/L
7.91 pH
252.9 ORP
N 27.211457
W-80.934041

WS-15
Arrived @ 12:14
Time 1216
26.96 °C
203 µs/cm
56.6 DO%
4.53 DO mg/L
8.04 pH
261.4 ORP
N 27.212360
W-80.935408

WS-16
Arrived @ 1225
Tributary Site
Time: 1228
26.63°C
199 µs/cm
55.6 DO%
4.44 DO mg/L
7.95 pH
253.1 ORP
N 27.216733
W-80.945923

WS-17
Arrived @ 1240
Time: 1245
26.34°C
199 µs/cm
41.8 DO%
3.39 DO mg/L
7.45 pH
245.5 ORP
N 27.223323
W-80.962680

WS-18
Arrived @ 1250
Time: 1254
26.38°C
216 µs/cm
53.1 DO%
4.28 DO mg/L
7.77 pH
257.3 ORP
N 27.221079
W-80.965879

WS-19
Arrived @ 1310
- Beyond Lock
Time: 1317
26.24°C
197 µs/cm
40.3 DO%
3.26 DO mg/L
7.30 pH
252.1 ORP
N 27.225939
W-80.963859

WS-20
Time: 1327
27.78°C
Co-27.50°C
194 µs/cm
62.3 DO%
4.89 DO mg/L
7.72 pH
256.5 ORP
N 27.230563
W-80.974042

WS-21 Time: 1338

Arrived @ 13:35

Tributary

26.54°C

193 µs/cm²

50.8 DO%

4.06 DO mg/L

7.46 pH

262.8 ORP

N 27.2366639

W -80.981843

WS-22 Time: 1344

Arrived @ 1342

27.53°C

193 µs/cm²

65.5 DO%

5.16 DO mg/L

8.02 pH

259.0 ORP

N 27.238432

W -80.982095

WS-23 Time: 1350

Arrived 1448

26.51°C

193 µs/cm²

60.8 DO%

4.87 DO mg/L

7.68 pH

265.1 ORP

N 27.239333

W -80.983674

WS-24 Time: 1357

Arrived @ 1355

27.56°C

193 µs/cm²

67.0 DO%

5.24 DO mg/L

7.94 pH

266.0 ORP

N 27.240392

W -80.982802

WS-25 Time: 1407

Arrived @ 1404

~~27.~~ 26.97°C

192 µs/cm²

66.3 DO%

5.29 DO mg/L

8.05 pH

265.8 ORP

N 27.240978

W -80.984567

WS-26 Time: 1420

Arrived @ 1415

26.62°C

192 µs/cm²

~~60.~~ 60.1 DO%

4.83 DO mg/L

7.73 pH

265.9 ORP

N 27.250442

W -80.992622

WS-27 Time: 1435
Arrived @ 1434
27.07 °C
192 ms/cm
68.9 DO%
5.47 DO mg/L
8.12 pH
252.1 ORP
N 27.253516
W-80.994194

WS-28 Time: 1443
Arrived @ 1440
26.76 °C
192 ms/cm
64.4 DO%
5.14 DO mg/L
7.90 pH
259.3 ORP
N 27.256301
W-80.995159

WS-29 Time: 1450
Arrived @ 1448
27.10 °C
192 ms/cm
72.7 DO%
5.72 DO mg/L
8.44 pH
252.6 ORP
N 27.258501
W-80.997650

WS-30 Time: 1458
Arrived @ 1458
26.94 °C
192 ms/cm
69.2 DO%
~~5.48 DO mg/L~~ 5.61 DO mg/L
8.28 pH
255.7 ORP
N 27.263505
W-80.997765

WS-31 Time: 1510
- Arrived @ 1509
- Tributary 15
26.83 °C
192 ms/cm
@ ~~62.~~ 61.5 DO%
4.91 DO mg/L
7.95 pH
255.3 ORP
N 27.269877
W-81.000024

WS-32 Arrive @ 1316 Time: 1317
26.83 °C
192 ms/cm
62.8 DO%
5.08 DO mg/L
7.98 pH
261.0 ORP
N 27.270107
W-81.001125

WS-33 Time: 1530

Arrive 1524

CD ~~260.77~~ 27.35°C

193 ms/cm²

CP ~~59.~~ 60.6 DO%.

4.83 DO mg/L

8.13 pH

257.5 ORP

N 27.273732

W-81.002410

WS-34 Time: 1540

Arrive @ 1539

260.77°C

192 ms/cm²

CP ~~67~~ 66.3 DO%.

5.27 DO mg/L

8.09 pH

260.7 ORP

N 27.282328

W-81.005140

WS-35 Time: 1550

Arrive @ 1548

~~29.~~ 31.68°C

197 ms/cm²

76.4 DO%.

5.55 DO mg/L

8.84 pH

244.3 ORP

N 27.289001

W-81.007355

Day 2 5/25/21

- Arrived @ 7:40 on site
- In water @ 8:20
- 8:00 Teams update

Personnel: Chelsea, Danny, Jordan, Zach, Sambhavi, JD

WS-36 Time: 0938

Arrived @ 9:30

24.83°C

1129 ms/cm²

11.7 DO%.

1.06 DO mg/L

7.60 pH

238.2 ORP

N 27.314523

W-80.838167

WS-37 Time: 0952

Arrived @ 0950

24.82°C

1084 ms/cm²

18.1 DO%.

1.53 DO mg/L

7.57 pH

258.1 ORP

N 27.313956

W-80.837946

WS-38 Time: 1012

- Arrived @ 1010
25.05 °C
1031 µs/cm
55.2 DO%
4.52 DO mg/L
7.57 pH
243.2 ORP
N 27.307305
W -80.834482

WS-39 Time: 1028

Arrived @ 1025
~~25.47°C~~ 25.65°C
940 µs/cm
~~32.2~~ DO%
2.84 DO mg/L
7.53 pH
246.7 ORP
N 27.298173
W-80.829064

WS-40 Time: 1046

~~Arrived @ 1039~~
25.29°C
902 µs/cm
61.7 DO%
5.06 DO mg/L
7.58 pH
244.5 ORP
N 27.294751
W-80.826091

WS-41 Time: 1050

Arrived @ 1048
25.38 °C
906 µs/cm
~~75.1 DO%~~
59.0 DO%
4.77 DO mg/L
7.59 pH
248.1 ORP
N 27.294058
W-80.825852

WS-42 Time: 1103

~~Arrived @ 1102~~
26.07°C
881 µs/cm
59.0 DO mg/L
4.80 DO mg/L
7.69 pH
247.7 ORP
N 27.288880
W-80.824099

WS-43 Time: 1115

current was strong, y'all would not stabalize initially

- Arrived @ 11:13
~~26.22~~
~~816~~
~~38.3 DO%~~
~~3.28 DO mg/L~~
~~7.60 pH~~
~~246.4 ORP~~
26.76°C
872 µs/cm
87.6 DO%
4.60 DO mg/L
7.67 pH
294.5 ORP
N 27.285104
W-80.822184

WS-44 Time: 1129
Arrived @ 1127
- Just past silt barrier on way back to ~~X~~ boat ramp

28.08°C N 27.284443
857 ms/cm² W -80.821753
98.8 DO%
7.66 DO mg/L
7.94 pH
247.0 ORP

WS-45 Time: 1143
Arrived 1141
28.26°C N 27.277714
832 ms/cm² W -80.821478
106.3 DO%
8.29 DO mg/L
7.99 pH
240.8 ORP

WS-46 Time: 1152
Arrived @ 1148
28.16°C 8.07 pH
814 ms/cm² 244.3 ORP
111.1 DO% N 27.276360
8.75 DO mg/L W-80.821177

WS-47 Time: 1202
Arrived @ 1158
27.55°C
795 ms/cm² N 27.274872
95.2 DO% W-80.818522
7.15 DO mg/L
7.98 pH
244.2 ORP

WS-48 Time: 1217
Arrived @ 1214 N 27.260960
27.96°C W -80.805096
689 ms/cm²
112.9 DO%
8.85 DO mg/L
8.42 pH
246.9 ORP

WS-49 Time: 1232
Arrived @ 1228
27.34°C 237.8 ORP
656 ms/cm²
110.4 DO% N 27.258098
8.73 DO mg/L W-80.789318
8.56 pH

WS-50 Time: 1244
Arrived @ 1242
28.92°C
0.636 ms/cm
139.5 DO%
10.72 DO mg/L
8.83 pH
245.7 ORP
N 27.249844
W-80.788900

WS-51 Time: 1255
Arrived at 1251
28.92°C
0.634 ms/cm
138.7 DO%
10.68 DO mg/L
8.80 pH
243.1 ORP
N 27.239710
W-80.786246

WS-52 Time: 1307
Arrived @ 1305
29.28°C
0.634 ms/cm
134.4 DO%
10.25 DO mg/L
8.76 pH
243.6 ORP
N 27.237043
W-80.786338

WS-53 Time: 1320
Arrived @ 1319
28.37°C
0.627 ms/cm
115.1 DO%
8.94 DO mg/L
8.59 pH
238.8 ORP
N 27.227087
W-80.782182

WS-54 Time: 1330
Arrived @ 1325
28.60°C
0.625 ms/cm
CO
~~117.0 DO%~~ 112.8 DO%
CO
~~9.04 DO mg/L~~ 8.73 DO mg/L
8.57 pH
245.3 ORP
N 27.224749
W-80.778615

WS-55 Time: ~~1445~~ 1345
CO
Arrived @ 1440
27.68°C
0.611 ms/cm
117.5 DO%
9.27 DO mg/L
8.60 pH
240.1 ORP
N 27.213177
W-80.776840

WS-56 Time: 1405

Arrived @: 1359
26.92°C
604 µs/cm
99.1 DO%
7.95
8.39 pH
246.4 ORP

N 27.207180
W-80.753136

WS-57 Time: 1414

Arrived @ 1411
28.12°C
584 µs/cm
134.7 DO%
10.51 DO mg/L
8.66 pH
243.7 ORP

N 27.206679
W-80.751422

WS-58 Time: 1415

Arrived @ 1420
~~28.79°C~~ 28.86°C
CP ~~554~~ 554 µs/cm
~~153.3 DO%~~ 160.3 DO%
~~11.89 DO mg/L~~ 12.34 DO mg/L
8.84 pH
245.4 ORP

N 27.203587
W-80.746197

YSI stabilizing

WS-59 Time: 1435

Arrived @ 1432
28.66°C
553 µs/cm
156.3 DO%
12.08 DO mg/L
8.78 pH
243.5 ORP

N 27.201867
W-80.743731

WS-60 Time: 1441

Arrived @ 1444
28.43°C
597 µs/cm
142.3 DO%
11.01 DO mg/L
8.80
244.9 ORP

N 27.201152
W-80.756045

WS-61 Time: 1455

Arrived @ 1452
28.84°C
602 µs/cm
145.0 DO%
11.07 DO mg/L
8.88 pH
253.7 ORP

N 27.193075
W-80.762089

Day 3 5/26/21

Personnel: Danny, Chelsea, DD, Zach, Sambhav

Onsite: 10am

SS-01 Time: 1044

L+L: N 27.31656° W 80.83447° extremely sandy & dry

SS-02 Time: 1052

N 27.31637° W 80.83472° extremely dark brown/moist-silty

SS-03 Time: 1057

N 27.31642 W 80.83472 very dry fine sand, light grey.

SS-04 - mixed Sample - Time: 1105

mixing 3 locations
- light grey dry sand
- mixed organic dark
- intermediate

N 27.31620 W 80.83477

SS-05 Time: 1116

N 27.3[illegible]20 W 80.83477 med. grey coarse sand mixed w/ organics.

SS-06 Time: 1220

N 27° 18' 17.3377" W 80° 50' 48.9430" Fine sugar sand light grey

SS-07 Time: 1228

N 27° 18' 17.2473" W 80° 50' 48.9143" same as above

SS-08 Time: 1232

N 27° 18' 17.2086" W 80° 50' 48.8957" same as above

SW-162 Time: 1230

32.25°C 191.1 ORP
157 mV/cm
192.3 ppt
14.07 ppt
9.70 pH

N 27° 18' 17.1484" W 80° 50' 48.9064"

SS-09

N 27° 19' 14.7652"
W 80° 50' 55.7645"

Time: 1327

light brown ~~[illegible]~~ fine sand on hill sloping angle.

SS-10

N 27° 19' 13.6149"
W 80° 50' 56.0277"

Time: 1335

sugar sand

SS-11

N 27° 19' 15.7947"
W 80° 50' 59.2245"

Time: 1355

potential hog rooting
Grey coarse silty sand.

1412

SS-12

N 27° 19' 20.7373"
W 80° 50' 57.3511"

Time: ~~1712~~ CO

Fine grey sand

SS-13

N 27° 19' 21.1793"
W 80° 50' 58.7753"

Time: 1418

Dark grey dry coarse sand.

SS-14

N 27° 20' 17.4882"
W 80° 51' 38.61616"

Time: 1503

Brown coarse sandy soil, dark organics just below surface.
- Dried stream bed

SS-15

N 27° 20' 17.1882"
W 80° 51' 39.2039"

Time: 1510

moist brown/black organic soil.
- Dried stream bed

SS-16 - mixed Sample -
N 27° 20' 16.7999"
W 80° 51' 36.4048"

Time: 1520

Brown Dry sand mixed w/ inorganics Fertilizer?

SS-17 -
N 27° 20' 14.9855"
W 80° 51' 36.0253"

Time: 1536

extremely dry fine brown/orange sand.

SS-18 -
N 27° 20' 13.9062"
W 80° 51' 38.4891"

Time: 1543

Grey fine sand

Day 4 5/27/21

Arrived @ first site @ 10am

Personnel: Chelsea, Danny, JD, Zaen, & Sambhavi

SS-19 *Spoke to landowner, confirmed fill dirt.* Time: 1012

N 27° 10' 02.0405" W 80° 43' 12.1013"

recently excavated soil. med/dark brown sand pot. fill dirt

SS-20 Time: ~~1012~~ CP 1018

N 27° 10' 01.9882" W 80° 43' 12.3192"

same as above

SS-21 Time: 1023

N 27° 10' 01.7942" W 80° 43' 12.5479"

same as above

SS-22 Time: 1049

N 27° 09' 29.66029" W 80° 42' 23.4308"

light brown fine sand.

SS-23 Time: 1053

N 27° 09' 30.1643" W 80° 42' 25.1888"

Dark Brown/Black fine Sand.

SS-24 Time: 1057

N 27° 09' 30.3218" W 80° 42' 25.9850"

med brown fine soil / sugar sand

SS-25 Time: 1125

N 27° 09' 22.5a06" W 80° 42' 21.4347"

eroded bank adjacent to trailer park. Saturated coarse sand w/ algae

SS-26 Time: 1130

N 27° 09' 22.67446" W 80° 42' 21.3176"

same as above

SS-27 Time 1135

N 27° 09' 22.8113" W 80° 42' 21.1638"

same as above

Taking water samples @ this location.

WS
SW-63 Time: 1205

- right off shore of SS-26
~ 15ft off shore.

29.27°C
1645 us/cm
102.0 DO%
7.81 DO mg/L
8.36 pH
226.3 ORP

N 27° 09' 22.6746"
W 80° 42' 21.3176"

Perpendicular to shore offset NW

WS SS-64 SS-28 Time: 1325

N 27° 07' 22.0265" Sandy Shore
W 80° 40' 42.1645" saturated sand w/ excess algae

WS SS-64 ~~65~~ SS-29 Time: 1335

N 27° 07' 21.8378" same as above
W 80° 40' 42.4007"

* SS-28 & SS-29 extra samples were taken into qal size zip lock bags for running spectra back in lab. Spect. is malfunctioning. *

SW-64 Time: 1400

28.93°C
8026 us/cm
117.5 100%
9.02 DO mg/L
8.30 pH
229.6 ORP

N 27° 07' 22.0950"
W 80° 40' 42.0639"

SS-30 Time: 1508

N 27° 24' 04.2063" Creek bed.
W 80° 48' 53.2457" very saturated

SS-31 Time: 1520

N 27° 24' 04.1887" adjacent to
W 80° 48' 52.7224" creek bed

SW-65 infront of SS-31 Time: 1554

N 27° 24' 04.4742" slow running
W 80° 48' 52.6488" creek, very shallow
runs along ~~adjacent to~~ cow pasture

WS
~~SW~~-65 VSI:

25.91°C
1539 uS/cm
50.9 00%
4.08 mg/L
~~4.0~~ DO
7.79 pH
140.0 ORP

WS
~~SW~~-660 Time: 1634

DO
~~28.3~~
27.53°C
545 uS/cm
34.3 00%
2.67 mg/L
7.09 pH
193.6 ORP

N 27° 22' 39.4336"
W 80° 50' 42.1563"

Day 5 5/28/21

met @ Scott Driver Ramp @ 845

Personnel: Chelsea, Danny, Steve, Zach, Sambhavi.

Arrived @ first site off Kissimmee River @ 0920.

SS-32 Time: 0930

DO

~~N 27° 11' 17.6422"~~
~~W 80° 54' 22.5253"~~
N 27° 08' 51.6336"
W 80° 52' 22.5159"

light brown dry sand - fine

SS-33 Time: 0933

DO

~~N 27° 11' 17.6422"~~
~~W 80° 54' 22.5253"~~
N 27° 08' 55.5653"
W 80° 52' 31.5951"

Black/Grey sand/gravel Recently excavated lot. Was burned prior to excavation

SS-34 Time: 0946

DO

~~N 27° 11' 17.6422"~~
~~W 80° 54' 22.5253"~~
N 27° 08' 55.5322"
W 80° 52' 31.2462"

Same as above

SS-35 locally dredged material out "of dike" Time: 0952

CP

~~N 27° 11' 17.6422"~~ → Potentially imported

~~W 80° 54' 22.5253"~~ in. Fill is light grey & shelly. on slope

N 27° 08' 57.3915"

W 80° 52' 33.1774" Limestone fragments

SS-36 — (N) 27° 08' 58.8003" Time: 0959

(W) 80° 52' 32.0763"

Same as above. Up slope more. Higher elevation

~~N 27° 54' 22.5253"~~

~~W 80° 54~~

CP CP

~~N 27° 11' 17.6422"~~

~~W 80° 54' 22.5253"~~

SS-37 Time: 1020

CP

~~N 27° 11' 17.6422"~~ sandy/shelly soil.

~~W 80° 54' 22.5253"~~ sprayed w/ organic materials

N 27° 10' 14.6722"

W 80° 53' 28.4974"

SS-38 Time: 1059

CP

~~N 27° 11' 17.6422"~~

~~W 80° 54' 22.5253"~~ wet/saturated

N 27° 11' 24.3392" sand on bank

W 80° 54' 13.5424" of [illegible]

SS-39 Time: 1108

N 27° 11' 23.1740" Dry shelly/sand

W 80° 54' 14.7065" light grey ~100ft from river

SS-40 Time: 1125

N 27° 11' 25.7400" Tributary slope.

W 80° 54' 18.9765" Saturated yellow/orange sand.

WS-07 Time: 1126

N 27° 11' 25.6779" Sample taken

W 80° 54' 18.9616" off shore - Grab sample next to SS-40.

WS-08 Time: 1207

N 27° 11' 16.8207" 29.76°C 249.0 orp

W 80° 54' 20.6368" 349 used LSU to

77.2 collect sample w/

5.85 pump. ~15 ft

7.50pH 315° NW offset from shore

* SS-41

N 27° 11' 16.8795"
W 80° 54' 26.5881"

Time: 1215

@ edge of bank where water was collected

SS-42

N 27° 11' 16.9793"
W 80° 54' 26.4880"

Time: 1218

Same as above

SS-43

N 27° 12' 38.6174"
W 80° 56' 09.2478"

Time: 1310

Wet sand & shell-grey on shore of tributary next to newly built ~~dike~~ dike

* SS-44

N 27° 12' 38.6279"
W 80° 56' 09.1822"

Time: 1313

rust colored saturated sand next to last sample (SS-43). Potentially iron? black layer underneath

SS-45

N 27° 13' 09.5872"
W 80° 57' 23.7638"

Time: 1345

mucky organic saturated soil. Dark brown in color

Abundance of cattails

SS-40

N 27° 11' 17.6577"
W 80° 54' 22.4630"

Time: 1430

Newly excavated lot holding excess rock material for rip rap. Light grey shelly/limestone fill.

SS-47

CD

~~N 27° 11' 17.6577"~~
~~W 80° 54' 22.4630"~~
N 27° 11' 18.3682"
W 80° 54' 24.3173"

Time: 1435

Same as above but closer to dike

SFWMD - Lake Okeechobee Remote Sensing Field Work

Satelytics - Field Notes

BLACK & VEATCH

Date & Time	GPS ID	Spectra	Notes	SampleID	x	y
49:19.0	763	15,016,018,019		WS-37	-80.8379	27.31386
09:12.0	764	22,023,024,025,026		WS-38	-80.8345	27.30729
21:47.0	765	27,028,029,030,031		WS-39	-80.8291	27.29825
36:13.0	767	38,039,040,041,042,000,000		WS-40	-80.8261	27.29476
48:06.0	769	51,052,053,054,055		WS-41	-80.8258	27.29385
59:18.0	770	57,058,059,060,061,000,000,000,000		WS-42	-80.8241	27.28888
07:26.0	771	73,074,075,076		WS-43	-80.8222	27.28507
25:32.0	772	79,080,081,082,083,000,000		WS-44	-80.8218	27.28439
36:16.0	774	86,087,088,089,090,000		WS-45	-80.8214	27.27777
44:42.0	775	92,093,094,095,096,000,000,000,000,000,000,000		WS-46	-80.8213	27.27643
57:21.0	777	107,108,109,110,113	Culvert ID PC09	WS-47	-80.8184	27.27474
14:03.0	780	2,003,006,007	Spectra File Name: SFWM_20210525_2; water looks more green, algae color	WS-48	-80.8051	27.26077
27:51.0	781	8,009,010,011,012,010,000	dense cyanobacteria	WS-49	-80.7893	27.258
36:28.0	782	15,016,017,018,019,000	green algae / cyanobacteria	WS-50	-80.7889	27.24971
48:49.0	783	22,023,024	algae / bacteria is visible	WS-51	-80.7861	27.23975
59:28.0	784	33,034,035,036,037		WS-52	-80.7864	27.23678
15:14.0	785	39,040,041,042,043,000		WS-53	-80.7823	27.22698
24:29.0	787	45,046,047,048,049,000	darker, smaller particles in water	WS-54	-80.7789	27.22487
36:31.0	789	55,056,057,058	lots of dead floating vegetation	WS-55	-80.7611	27.21296
00:34.0	790	59,060,061,062,063		WS-56	-80.753	27.207
06:29.0	791	66,067,068,069,070,000,000,000,000,000	073-074 no dead veg material - best spectra	WS-57	-80.7514	27.20667
21:12.0	792	78,079,080,082		WS-58	-80.7462	27.20351
40:22.0	794	95,096,097,100,101,100		WS-60	-80.7562	27.20103
50:13.0	796	103,106,107,110,111		WS-61	-80.7619	27.19293
44:59.0	797	1,002,003,004,005,000,000,000,000	Spec name: SFWM_20210526; undistiurbed - sandy (001,002,003,004,005,006); mixed - sandy (007,008,009)	SS-01	-80.8345	27.31656
54:35.0	798	11,012,013,014,015,000	undistiurbed - in mud pit, dried mud cracks, cow dung in surrounding area (011,012,013); mixed (014,015,016)	SS-02	-80.8347	27.31637
56:51.0	799	17,018,019,020,021,000,000,000,000,000	undisturbed (017,018,019,020,021); mixed (022,023,024,025,026)	SS-03	-80.8347	27.31642
09:09.0	802	027,028,029,031,032,033, 034,035,036,037,038,039,040	dark sand,SS-04A(027,028,029); SS-04B(031,032,033), SS-04C(034,035,036); SS-04D(037,038,039,040);	SS-04	-80.8348	27.3162
14:24.0	803	41,042,043,044,045,000	undisturbed - collected from ephemeral wetland. normal soil would be sand / white(041,042,043); mixed(044,045,046)	SS-05	-80.8348	27.31614
20:22.0	804	51,052,053,055	clouds moving between readings.	SS-06	-80.8469	27.3048
29:52.0	805	56,057,058,059		SS-07	-80.8469	27.30479
31:59.0	806	60,061,062		SS-08	-80.8469	27.30478
30:24.0	808	1,002,004,005,006,000,000	Spec name: SFWM_20210526_2; undisturbed - high up on bamk near green algae pond. spoil from borrow pit (pond)(001,002); mixed(004,005,006,007,008)	SS-09	-80.8488	27.32078

34:30.0	809	9,010,011	undisturbed. no mixing. white sand, more representative of surface soil type	SS-10	-80.8489	27.32044
54:33.0	810	12,013,014,015	collected from dug up section of dirt from hogs. not much exposed soil, rest of torn up dirt is covered in straw	SS-11	-80.8498	27.32106
11:37.0	811	16,017,018,019	located near gate in slight depression, cow dung and dark material present	SS-12	-80.8493	27.32244
19:21.0	812	20,021,022,023	less organics, lighter sand	SS-13	-80.8496	27.32255
12:06.0	813	2,003,004,005	in creek bottom, trees covering, little sunny spot. leads to taylor creek	SS-14	-80.8607	27.33819
13:04.0	814	6,007,008,009	low sunlight, collected in creek bottom, darker wet soil	SS-15	-80.8608	27.33813
19:36.0	815	10,011,012,013,014,000,000,000,000,000,000,000,000	orange/ tan soil, possibly trucked in and spread on top of field, SS-16A(010,011,012); SS-16B(013,014,015,016); SS-16C(017,018,019); SS-16D(020,021,022)	SS-16	-80.8601	27.33802
37:29.0	818	023,024,025,026, 027,028	undisturbed - orange / tan soil - possibly trucked in and spread on top of field(023,024,025,026) ;mixed(027,028)	SS-17	-80.86	27.3375
42:17.0	819	31,032,033,034	sandy, darker sand, more representative of native soil	SS-18	-80.8607	27.33721
11:10.0	820	1,002,003,004,005,000,000	spec name: SFWM_20210527; undisturbed - trucked in darker sand for house platform (001,002,003,004); mixed(005,006,007)	SS-19	-80.72	27.16723
15:44.0	821	8,009,010,011,012,010,000	undisturbed(008,009,010,011); mixed(012,013,014)	SS-20	-80.7201	27.16723
21:29.0	822	15,016,017	undisturbed - check end spectra. does it end at 017?	SS-21	-80.7201	27.16719
47:08.0	823	2,003,004	spec name: SFWM_20210527_2; lighter sand	SS-22	-80.7065	27.15827
51:42.0	824	5,006,007	darker soil / sand, v fine	SS-23	-80.707	27.15838
56:46.0	825	8,009,010	brown soil / sand	SS-24	-80.7072	27.15841
26:15.0	828	11,012,013,014		SS-25	-80.7059	27.15629
27:17.0	829	17,018,019		SS-26	-80.7059	27.15628
29:19.0	830	20,021,022,023		SS-27	-80.7059	27.15632
32:00.0	831	1,002,003,004,005,000,000	spec name: HR-052721; undisturbed (001,002,003,004); mixed(005,006,007)	SS-28	-80.6784	27.12279
38:05.0	832	8,009,010,011,012,010	undisturbed (008,009,010); mixed(011,012,013)	SS-29	-80.6784	27.12274
04:54.0	833	14,015,016		WS-64	-80.6783	27.12282
08:49.0	834	17,018,019,020,021,000	undisturbed dark muddy wet soil rich in organics, algae present (017,018,019); mixed(020,021,022)	SS-30	-80.8148	27.40121
18:45.0	835	26,027,026,027	dry sandy silt	SS-31	-80.8146	27.40116
52:44.0	836	32,033		WS-65	-80.8146	27.40122
31:46.0	837	37,038,039,040		WS-66	-80.8451	27.37762
29:13.0	840	2,003,004,005	spec name: SFWM_20210528	SS-32	-80.8728	27.14765
42:01.0	841	6,007,008,009,010,010	undisturbed - burned veg before excavating, charred black carbon (006,007,008); mixed (009,010,011)	SS-33	-80.8755	27.14876

44:54.0	842	12,013,014,015,016,000	undisturbed(012,013,014); mixed(015,016,017) silty sand/ sandy silt, lots of shell fragments	SS-34	-80.8754	27.14876
49:23.0	843	18,019,020,021,022,000	undisturbed - brighter surface, carbonates - brought in from somewhere else - construction material from removed dam (018,019,020); mixed(021,022,023)	SS-35	-80.8759	27.14925
56:26.0	844	24,025,026	undisturbed - darker surface, carbonates - brought in from somewhere else - construction material from removed dam	SS-36	-80.8761	27.14967
22:42.0	845	27,028,029,030,031,000,000	undisturbed - right next to road, covered in dead grass clippings used to prevent erosion. sugar sand with shell frags (027,028,029); mixed(030,031,032,033)	SS-37	-80.8913	27.17073
57:35.0	846	36,037,038	wet white sugar sand on bank near construction site	SS-38	-80.9038	27.1901
00:24.0	847	45,046,047,048,049,000	undisturbed	SS-40	-80.9048	27.18975
32:27.0	848	51,052,053,054		WS-67	-80.9053	27.19046
09:03.0	849	55,056,057,058,059,000,000,000,000,000	LSD SAMPLE	WS-68	-80.9074	27.18803
13:47.0	850	65,066,067	carbonate rich sand / shells on the bank	SS-41	-80.9074	27.18801
17:44.0	851	68,069,070,071	collected beneath grass from organic rich O-horizon. Not visible in imagery	SS-42	-80.9074	27.18802
08:52.0	852	5,006,007	spec name: SFWM_20210528_2	SS-43	-80.9359	27.2107
17:44.0	853	8,009,010	red iron bacteria on bank closer to water	SS-44	-80.9359	27.21075
47:24.0	854	1,002,003,004	cattails present on waters edge, indicate high nutrients	SS-45	-80.9566	27.21934
28:17.0	855	11,012,013		SS-46	-80.9062	27.18826
35:27.0	856	15,016,017,018,019,000	undisturbed (015,016,017); mixed(018,019,020)	SS-47	-80.9067	27.18847
29:47.0	714	220,023		WS-01	-80.8712	27.15091
39:56.0	716	2,400,250,026,002,700,000,000		WS-02	-80.8731	27.15038
52:15.0	718	3,000,310,032,003,300,000,000,000,000,000,000		WS-03	-80.8766	27.15537
02:14.0	719	4,000,410,042,004,300,000,000		WS-04	-80.8817	27.16165
09:39.0	720	5,100,530,054,005,600,000,000		WS-05	-80.8827	27.16316
18:18.0	721	620,063,006,400,650,000,000,000,000,000		WS-06	-80.8837	27.16362
31:08.0	723	760,081,008,200,850,000		WS-07	-80.8889	27.17116
40:18.0	724	88,008,900,900,091,000,000,000,000		WS-08	-80.8923	27.1779
57:11.0	727	105,010,601,070,108,000,000,000,000,000,000,000,000		WS-09	-80.8974	27.1844
25:34.0	728	122,123,124,125,126,000,000,000,000,000,000,000		WS-10	-80.9042	27.19096
27:09.0	729	135,140,141,142,143,000,000		WS-11	-80.9042	27.19097
40:04.0	732	151,152,153,154,155,000,000,000		WS-12	-80.9104	27.2008
49:13.0	733	159,160,161,162,163,000,000,000		WS-13	-80.9178	27.20935
04:02.0	735	2,004,005,007,008,000,000,000,000		WS-14	-80.934	27.21139
10:46.0	737	13,014,015,016,017,000,000,000		WS-15	-80.9347	27.21236
20:22.0	738	21,022,023,024,026,000,000,000,000		WS-16	-80.9457	27.21654
33:06.0	739	31,033,034,035,036,000,000,000		WS-17	-80.9624	27.22335
46:41.0	740	40,041,042,043,044,000,000,000		WS-18	-80.9661	27.22097
27:39.0	743	62,063,064,065,066,000		WS-20	-80.974	27.23066
32:19.0	744	68,069,070,071,072,000		WS-21	-80.9817	27.23678
38:10.0	745	74,075,076,077,078,000		WS-22	-80.9821	27.23826
45:35.0	746	80,081,082,083,084,000,000		WS-23	-80.9838	27.23936
52:34.0	747	87,088,089,090,091		WS-24	-80.9827	27.24047
00:20.0	748	92,093,094,095,096		WS-25	-80.9841	27.24105
16:42.0	749	103,104,105,106,107		WS-26	-80.9924	27.25047
21:25.0	750	5,006,007		WS-27	-80.994	27.25361

37:39.0	751	8,009,010,011		WS-28	-80.9951	27.25624
44:03.0	752	15,016,017,018,019,000,000		WS-29	-80.9977	27.25863
52:40.0	753	22,023,024,025,026,000		WS-30	-80.9977	27.26354
01:57.0	754	28,029,030,031,032,000,000		WS-31	-81	27.26998
07:21.0	755	35,036,037,038,039		WS-32	-81.0011	27.27027
36:42.0	756	49,050,051,052,053,000,000,000		WS-34	-81.0051	27.28235
42:40.0	758	67,068		WS-35	-81.0072	27.2889
04:15.0	759	44,045,046,047,048		WS-33	-81.0023	27.27371
36:10.0	762	4,005,006,007,009,010,000		WS-36	-80.8382	27.3147
30:41.0	793	90,091,092,093,094		WS-59	-80.7438	27.20197
35:53.0	807	63,064,065		WS-62	-80.8469	27.30477
18:55.0	742	55,056,057,058,059,000,000		WS-19	-80.9638	27.22595
00:24.0	847	39,040,041,042,043,000	undisturbed -mixed(042,043,044)	SS-39	-80.9041	27.18979
26:15.0	828	24,025,026,027,028,000		WS-63	-80.7059	27.15625

Water Samples - Summary data table

Sample ID	Date	Time	Latitude DD	Longitude DD	Temp ˚C	Secific Conductance µmhos/cm^2	DO %	DO mg/L	pH SU	ORP mg/L	Calculated Salinity psu	Comments
WS-1	5/24/2021	932	27.150954	-80.871264	25.92	216	40	3.25	7.08	283.4	0.1	Kissimmee River
WS-2	5/24/2021	940	27.150302	-80.873208	26.86	214	39	3.11	7.14	289.2	0.1	Kissimmee River
WS-3	5/24/2021	954	27.155531	-80.876762	26.84	213	38.7	3.11	7.14	284.1	0.1	Kissimmee River
WS-4	5/24/2021	1005	27.161852	-80.881620	26.78	210	38.2	3.05	7.09	280.4	0.1	Kissimmee River
WS-5	5/24/2021	1015	27.163211	-80.882623	27.12	210	41.7	3.32	7.19	279.4	0.1	Kissimmee River Tributary
WS-6	5/24/2021	1022	27.163727	-80.884183	27.05	210	38.8	3.1	7.15	279.7	0.1	Kissimmee River
WS-7	5/24/2021	1035	27.171117	-80.888902	27.25	210	43.5	3.46	7.47	270.3	0.1	Kissimmee River
WS-8	5/24/2021	1046	27.178654	-80.892658	27.39	210	50.7	4.02	7.52	275.6	0.1	Kissimmee River
WS-9	5/24/2021	1058	27.184795	-80.897530	27.33	210	47.9	3.8	7.64	271.1	0.1	Kissimmee River
WS-10	5/24/2021	1116	27.188282	-80.901814	27.29	209	52.5	4.16	7.75	265.6	0.1	Kissimmee River
WS-11	5/24/2021	1131	27.190897	-80.904141	27.22	209	52.8	4.19	7.69	266.2	0.1	Kissimmee River Tributary
WS-12	5/24/2021	1142	27.201043	-80.910431	27.5	208	54.9	4.33	8.02	258.2	0.1	Kissimmee River
WS-13	5/24/2021	1155	27.209465	-80.917794	27.73	239	56.2	4.44	8.25	256.3	0.1	Kissimmee River
WS-14	5/24/2021	1210	27.211457	-80.934061	27.04	204	55.6	4.41	7.91	252.9	0.1	Kissimmee River Tributary
WS-15	5/24/2021	1216	27.212360	-80.935408	26.96	203	56.6	4.53	8.04	261.4	0.1	Kissimmee River
WS-16	5/24/2021	1228	27.216733	-80.945923	26.63	199	55.6	4.44	7.95	253.1	0.1	Kissimmee River Tributary
WS-17	5/24/2021	1245	27.223323	-80.962680	26.34	199	41.8	3.39	7.45	245.5	0.1	Kissimmee River
WS-18	5/24/2021	1254	27.221079	-80.965879	26.38	216	53.1	4.28	7.77	257.3	0.1	Kissimmee River
WS-19	5/24/2021	1317	27.225939	-80.963859	26.24	197	40.3	3.26	7.3	252.1	0.1	Beyond Lock
WS-20	5/24/2021	1327	27.230563	-80.974042	27.78	194	62.3	4.89	7.72	256.5	0.1	Kissimmee River
WS-21	5/24/2021	1338	27.236639	-80.981843	26.54	193	50.8	4.06	7.46	262.8	0.1	Kissimmee River Tributary
WS-22	5/24/2021	1344	27.238432	-80.982095	27.53	193	65.5	5.16	8.02	259	0.1	Kissimmee River
WS-23	5/24/2021	1350	27.239333	-80.983674	26.51	193	60.8	4.87	7.68	265.1	0.1	Kissimmee River
WS-24	5/24/2021	1357	27.240392	-80.982802	27.56	193	67	5.24	7.94	266	0.1	Kissimmee River
WS-25	5/24/2021	1407	27.240978	-80.984567	26.97	192	66.3	5.29	8.05	265.8	0.1	Kissimmee River
WS-26	5/24/2021	1420	27.250442	-80.992622	26.62	192	60.1	4.83	7.73	265.9	0.1	Kissimmee River
WS-27	5/24/2021	1435	27.253516	-80.994194	27.07	192	68.9	5.47	8.12	252.1	0.1	Kissimmee River
WS-28	5/24/2021	1443	27.256301	-80.995159	26.76	192	64.4	5.14	7.9	259.3	0.1	Kissimmee River
WS-29	5/24/2021	1450	27.258501	-80.997650	27.1	192	72.7	5.77	8.44	252.6	0.1	Kissimmee River
WS-30	5/24/2021	1458	27.263505	-80.997765	26.94	192	69.2	5.61	8.28	255.7	0.1	Kissimmee River
WS-31	5/24/2021	1510	27.269877	-81.000024	26.83	192	61.5	4.91	7.95	255.3	0.1	Kissimmee River Tributary
WS-32	5/24/2021	1517	27.270107	-81.001125	26.83	192	62.8	5.08	7.98	261	0.1	Kissimmee River
WS-33	5/24/2021	1530	27.273732	-81.002410	27.35	193	60.6	4.83	8.13	257.5	0.1	Kissimmee River
WS-34	5/24/2021	1540	27.282328	-81.005140	26.77	192	66.3	5.27	8.09	260.7	0.1	Kissimmee River
WS-35	5/24/2021	1550	27.289001	-81.007355	31.68	197	76.4	5.55	8.84	244.3	0.1	Kissimmee River
WS-36	5/25/2021	938	27.314523	-80.838167	24.83	1129	11.7	1.06	7.6	236.2	0.6	Taylor Creek
WS-37	5/25/2021	952	27.313956	-80.837946	24.82	1084	18.1	1.53	7.57	238.1	0.5	Taylor Creek
WS-38	5/25/2021	1012	27.307305	-80.834482	25.05	1031	55.2	4.52	7.57	243.2	0.5	Taylor Creek
WS-39	5/25/2021	1028	27.298173	-80.829064	25.65	940	32.2	2.84	7.53	246.7	0.5	Taylor Creek
WS-40	5/25/2021	1040	27.294751	-80.826081	25.29	902	61.7	5.06	7.58	244.5	0.4	Taylor Creek
WS-41	5/25/2021	1050	27.294058	-80.825852	25.38	906	59	4.77	7.59	248.1	0.4	Taylor Creek
WS-42	5/25/2021	1103	27.288880	-80.824099	26.07	881	59	4.8	7.69	247.7	0.4	Taylor Creek
WS-43	5/25/2021	1115	27.285104	-80.822186	26.76	872	57.6	4.6	7.67	244.5	0.4	Taylor Creek
WS-44	5/25/2021	1129	27.284443	-80.821753	28.08	857	98.8	7.66	7.94	247	0.4	Taylor Creek
WS-45	5/25/2021	1143	27.277714	-80.821478	28.26	832	106.3	8.29	7.99	240.8	0.4	Taylor Creek
WS-46	5/25/2021	1152	27.276360	-80.821177	28.16	814	111.1	8.75	8.07	244.3	0.4	Taylor Creek
WS-47	5/25/2021	1202	27.274872	-80.818522	27.55	795	95.2	7.15	7.98	244.2	0.4	Taylor Creek
WS-48	5/25/2021	1217	27.260960	-80.805096	27.96	689	112.9	8.85	8.42	246.9	0.3	Taylor Creek
WS-49	5/25/2021	1232	27.258098	-80.789318	27.34	656	110.4	8.73	8.56	237.8	0.3	Taylor Creek
WS-50	5/25/2021	1244	27.249844	-80.788900	28.92	636	139.5	10.72	8.83	245.7	0.3	Taylor Creek
WS-51	5/25/2021	1255	27.239710	-80.786246	28.92	634	138.7	10.68	8.8	243.1	0.3	Taylor Creek
WS-52	5/25/2021	1307	27.237043	-80.786338	29.28	634	134.4	10.25	8.76	243.6	0.3	Taylor Creek
WS-53	5/25/2021	1320	27.227087	-80.782182	28.37	627	115.1	8.94	8.59	238.8	0.3	Taylor Creek
WS-54	5/25/2021	1330	27.224749	-80.778615	28.6	625	112.8	8.73	8.57	245.3	0.3	Taylor Creek
WS-55	5/25/2021	1345	27.213177	-80.760840	27.68	611	117.5	9.27	8.6	240.1	0.3	Taylor Creek
WS-56	5/25/2021	1405	27.207180	-80.753136	26.92	604	99.1	7.95	8.39	246.4	0.3	Taylor Creek
WS-57	5/25/2021	1414	27.206679	-80.751422	28.12	584	134.7	10.51	8.66	243.7	0.4	Taylor Creek
WS-58	5/25/2021	1415	27.203587	-80.746197	28.86	554	160.3	12.34	8.84	245.4	0.4	Taylor Creek
WS-59	5/25/2021	1435	27.201867	-80.743731	28.66	553	156.3	12.08	8.78	243.5	0.2	Taylor Creek
WS-60	5/25/2021	1447	27.201152	-80.756045	28.43	597	142.3	11.01	8.8	244.9	0.4	Taylor Creek
WS-61	5/25/2021	1455	27.193075	-80.762089	28.84	602	145	11.07	8.88	253.7	0.3	Taylor Creek
WS-62	5/26/2021	1230	27.304763	-80.846918	32.25	157	192.3	14.07	9.7	191.1	0.4	
WS-63	5/27/2021	1205	27.156250	-80.705934	29.27	645	102	7.81	8.36	226.3	0.3	
WS-64	5/27/2021	1400	27.122804	-80.678351	28.93	806	117.5	9.02	8.3	229.6	0.1	
WS-65	5/27/2021	1554	27.401243	-80.814625	25.91	1539	50.9	4.08	7.79	140	0.3	
WS-66	5/27/2021	1634	27.377620	-80.845038	27.53	545	34.3	2.67	7.09	193.6	0.4	
WS-67	5/28/2021	1126	27.190466	-80.905267	NM	NM	NM	NM	NM	NM	NM	
WS-68	5/28/2021	1207	27.188006	-80.907399	29.76	349	77.2	5.85	7.5	249	0.2	

Notes:

Surface water samples WS-1 thru WS-61 were collected using FDEP SOP FS 2100 1.1.2 - Sampling with an Intermediate Vessel or Container. The unpreserved TSS sample bottle was used as an intermediate sampling container. The container was rinsed several times with site water prior to collecting the first sample. The rinsate was discarded away from or downstream of the sampling location. The container was then filled and used to transfer sample water to the containers for TN and TP analysis, which were prepreserved with H^2SO_4. After filling, the TN and TP containers were inverted several times to ensure sufficient mixing of sample and preservatives. Finally, the TSS container was filled, labels and field notes were completed, and all three containers were placed in a cooler with wet ice. The latitude/longitude were recorded using a Trimble GPS (100 cm accuracy). pH, Specific Conductance, Dissolved Oxygen, and ORP were measured onsite using a YSI 556.

Conductivity Salinity Conversion based on 1983 Technical Paper from UNESCO, "Algorithms for computation of fundamental properties of seawater"

Salinity calculations also include corrections from Hill et al. 1986, "The extension of the practical salinity scale 1978 to low salinities"

Soil Samples - Summary data table

Sample ID	Date	Time	Latitude DD	Longitude DD
SS-01	5/26/2021	1044	27.316560	-80.834470
SS-02	5/26/2021	1052	27.316370	-80.834720
SS-03	5/26/2021	1057	27.316420	-80.834720
SS-04	5/26/2021	1105	27.316200	-80.834270
SS-05	5/26/2021	1116	27.316120	-80.834770
SS-06	5/26/2021	1220	27.304816	-80.846929
SS-07	5/26/2021	1228	27.304791	-80.846921
SS-08	5/26/2021	1232	27.304780	-80.846915
SS-09	5/26/2021	1327	27.320768	-80.848823
SS-10	5/26/2021	1335	27.320449	-80.848897
SS-11	5/26/2021	1355	27.321054	-80.849785
SS-12	5/26/2021	1412	27.322427	-80.849264
SS-13	5/26/2021	1418	27.322550	-80.849660
SS-14	5/26/2021	1503	27.338191	-80.860727
SS-15	5/26/2021	1510	27.338108	-80.860890
SS-16	5/26/2021	1520	27.338000	-80.860112
SS-17	5/26/2021	1536	27.337496	-80.860007
SS-18	5/26/2021	1543	27.337196	-80.860691
SS-19	5/27/2021	1012	27.167235	-80.720028
SS-20	5/27/2021	1015	27.167219	-80.720089
SS-21	5/27/2021	1023	27.167165	-80.720152
SS-22	5/27/2021	1049	27.158240	-80.706509
SS-23	5/27/2021	1053	27.158379	-80.706997
SS-24	5/27/2021	1057	27.158423	-80.707218
SS-25	5/27/2021	1125	27.156269	-80.705954
SS-26	5/27/2021	1130	27.156299	-80.705922
SS-27	5/27/2021	1135	27.156336	-80.705879
SS-28	5/27/2021	1325	27.122785	-80.678379
SS-29	5/27/2021	1335	27.122733	-80.678445
SS-30	5/27/2021	1508	27.401168	-80.814790
SS-31	5/27/2021	1520	27.401164	-80.814645
SS-32	5/28/2021	930	27.147676	-80.872921
SS-33	5/28/2021	933	27.148768	-80.875443
SS-34	5/28/2021	946	27.148759	-80.875346
SS-35	5/28/2021	952	27.149275	-80.875883
SS-36	5/28/2021	959	27.149668	-80.876132
SS-37	5/28/2021	1020	27.170742	-80.891249
SS-38	5/28/2021	1059	27.190094	-80.903762
SS-39	5/28/2021	1108	27.189771	-80.904085
SS-40	5/28/2021	1125	27.190483	-80.905271
SS-41	5/28/2021	1215	27.188022	-80.907386
SS-42	5/28/2021	1218	27.188050	-80.907358
SS-43	5/28/2021	1310	27.210727	-80.935902
SS-44	5/28/2021	1313	27.210730	-80.935884
SS-45	5/28/2021	1345	27.219330	-80.956601
SS-46	5/28/2021	1430	27.188238	-80.906240
SS-47	5/28/2021	1435	27.188436	-80.906755

SFWMD - Lake Okeechobee Remote Sensing Field Work

Lab Results

BLACK & VEATCH

Jupiter Environmental Laboratories, Inc.
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www.jupiterlabs.com
clientservices@jupiterlabs.com

June 7, 2021

Jon Dinges
Black & Veatch Corporation
3405 W. Dr. Martin Luther King
Suite 125
Tampa, FL 33607

RE: LOG# 2174060
Project ID: Okeechobee
COC# 2174060

Dear Jon Dinges:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, May 25, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

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

Sincerely,

John Heyman for
Kacia Baldwin
kaciab@jupiterlabs.com

CASE NARRATIVE

Jupiter Environmental Laboratories Inc. Lab Reference No./SDG: 2174060

Client: Black&Veatch

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

The following samples were diluted:

ClientID	LabID	Method	Dilution
WS-15	2174060015	EPA 365.3 (Phosphorus)	2

II. METHODS

Samples were analyzed according to JEL's Standard Operating Procedures for following Method(s):
EPA 365.3 (Phosphorus), SM 2540D

III. Analysis

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Jupiter Environmental Laboratories, Inc., both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

SIGNED: DATE: 6/7/21

John Heyman for
Kacia Baldwin
V.P. of Operations

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 2174060

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174060001	WS-01	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060002	WS-02	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060003	WS-03	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060004	WS-04	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060005	WS-05	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060006	WS-06	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060007	WS-07	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060008	WS-08	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060009	WS-09	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060010	WS-10	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060011	WS-11	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060012	WS-12	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060013	WS-13	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060014	WS-14	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060015	WS-15	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060016	WS-16	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060017	WS-17	EPA 365.3 (Phosphorus)	1
		SM 2540D	1

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SAMPLE ANALYTE COUNT

Workorder: 2174060

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174060018	WS-18	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060019	WS-19	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060020	WS-20	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060021	WS-21	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060022	WS-22	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060023	WS-23	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060024	WS-24	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060025	WS-25	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060026	WS-26	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060027	WS-27	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060028	WS-28	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060029	WS-29	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060030	WS-30	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060031	WS-31	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060032	WS-32	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060033	WS-33	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174060034	WS-34	EPA 365.3 (Phosphorus)	1
		SM 2540D	1

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SAMPLE ANALYTE COUNT

Workorder: 2174060

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174060035	WS-35	EPA 365.3 (Phosphorus)	1
		SM 2540D	1

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SAMPLE SUMMARY

Workorder: 2174060

Project ID: Okeechobee

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2174060001	WS-01	Aqueous Liquid	5/24/2021 09:32	5/25/2021 13:10
2174060002	WS-02	Aqueous Liquid	5/24/2021 09:40	5/25/2021 13:10
2174060003	WS-03	Aqueous Liquid	5/24/2021 09:54	5/25/2021 13:10
2174060004	WS-04	Aqueous Liquid	5/24/2021 10:05	5/25/2021 13:10
2174060005	WS-05	Aqueous Liquid	5/24/2021 10:15	5/25/2021 13:10
2174060006	WS-06	Aqueous Liquid	5/24/2021 10:22	5/25/2021 13:10
2174060007	WS-07	Aqueous Liquid	5/24/2021 10:35	5/25/2021 13:10
2174060008	WS-08	Aqueous Liquid	5/24/2021 10:46	5/25/2021 13:10
2174060009	WS-09	Aqueous Liquid	5/24/2021 10:58	5/25/2021 13:10
2174060010	WS-10	Aqueous Liquid	5/24/2021 11:16	5/25/2021 13:10
2174060011	WS-11	Aqueous Liquid	5/24/2021 11:31	5/25/2021 13:10
2174060012	WS-12	Aqueous Liquid	5/24/2021 11:42	5/25/2021 13:10
2174060013	WS-13	Aqueous Liquid	5/24/2021 11:55	5/25/2021 13:10
2174060014	WS-14	Aqueous Liquid	5/24/2021 12:10	5/25/2021 13:10
2174060015	WS-15	Aqueous Liquid	5/24/2021 12:16	5/25/2021 13:10
2174060016	WS-16	Aqueous Liquid	5/24/2021 12:28	5/25/2021 13:10
2174060017	WS-17	Aqueous Liquid	5/24/2021 12:45	5/25/2021 13:10
2174060018	WS-18	Aqueous Liquid	5/24/2021 12:54	5/25/2021 13:10
2174060019	WS-19	Aqueous Liquid	5/24/2021 13:17	5/25/2021 13:10
2174060020	WS-20	Aqueous Liquid	5/24/2021 13:27	5/25/2021 13:10
2174060021	WS-21	Aqueous Liquid	5/24/2021 13:38	5/25/2021 13:10
2174060022	WS-22	Aqueous Liquid	5/24/2021 13:44	5/25/2021 13:10
2174060023	WS-23	Aqueous Liquid	5/24/2021 12:50	5/25/2021 13:10
2174060024	WS-24	Aqueous Liquid	5/24/2021 13:57	5/25/2021 13:10
2174060025	WS-25	Aqueous Liquid	5/24/2021 14:07	5/25/2021 13:10
2174060026	WS-26	Aqueous Liquid	5/24/2021 14:20	5/25/2021 13:10
2174060027	WS-27	Aqueous Liquid	5/24/2021 14:35	5/25/2021 13:10
2174060028	WS-28	Aqueous Liquid	5/24/2021 14:43	5/25/2021 13:10
2174060029	WS-29	Aqueous Liquid	5/24/2021 14:50	5/25/2021 13:10
2174060030	WS-30	Aqueous Liquid	5/24/2021 14:58	5/25/2021 13:10
2174060031	WS-31	Aqueous Liquid	5/24/2021 15:10	5/25/2021 13:10
2174060032	WS-32	Aqueous Liquid	5/24/2021 13:17	5/25/2021 13:10
2174060033	WS-33	Aqueous Liquid	5/24/2021 15:30	5/25/2021 13:10
2174060034	WS-34	Aqueous Liquid	5/24/2021 15:40	5/25/2021 13:10
2174060035	WS-35	Aqueous Liquid	5/24/2021 15:50	5/25/2021 13:10

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060001** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-01** Date Collected: 5/24/2021 09:32

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.075	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:02	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	12i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060002** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-02** Date Collected: 5/24/2021 09:40

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.061	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:02	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060003** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-03** Date Collected: 5/24/2021 09:54

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.067	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:02	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060004** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-04** Date Collected: 5/24/2021 10:05

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.066	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:02	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060005** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-05** Date Collected: 5/24/2021 10:15

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.067	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	10i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060006** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-06** Date Collected: 5/24/2021 10:22

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.069	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	8.7i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060007** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-07** Date Collected: 5/24/2021 10:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	U	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	8.0i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060008** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-08** Date Collected: 5/24/2021 10:46

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.061	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060009** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-09** Date Collected: 5/24/2021 10:58

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.056	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060010** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-10** Date Collected: 5/24/2021 11:16

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.056	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060011** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-11** Date Collected: 5/24/2021 11:31

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.052	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060012** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-12** Date Collected: 5/24/2021 11:42

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.060	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060013** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-13** Date Collected: 5/24/2021 11:55

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.056	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060014** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-14** Date Collected: 5/24/2021 12:10

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.056	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:07	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060015** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-15** Date Collected: 5/24/2021 12:16

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.058	mg/L	0.020	0.0100	2	5/26/2021 10:33	DB	5/26/2021 15:46	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	10i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060016** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-16** Date Collected: 5/24/2021 12:28

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.049	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:11	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060017** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-17** Date Collected: 5/24/2021 12:45

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.059	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:11	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060018** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-18** Date Collected: 5/24/2021 12:54

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.062	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:11	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	10i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060019** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-19** Date Collected: 5/24/2021 13:17

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.065	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:11	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060020** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-20** Date Collected: 5/24/2021 13:27

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.064	mg/L	0.010	0.00500	1	5/26/2021 10:33	DB	5/26/2021 15:11	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	12i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060021** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-21** Date Collected: 5/24/2021 13:38

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.039	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:40	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	8.0i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060022** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-22** Date Collected: 5/24/2021 13:44

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.056	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:40	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060023** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-23** Date Collected: 5/24/2021 12:50

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.053	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:40	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	10i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060024** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-24** Date Collected: 5/24/2021 13:57

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.062	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:40	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060025** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-25** Date Collected: 5/24/2021 14:07

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.056	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060026** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-26** Date Collected: 5/24/2021 14:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.051	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060027** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-27** Date Collected: 5/24/2021 14:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.046	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	8.0i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060028** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-28** Date Collected: 5/24/2021 14:43

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.050	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060029** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-29** Date Collected: 5/24/2021 14:50

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.054	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060030** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-30** Date Collected: 5/24/2021 14:58

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.048	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	8.7i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060031** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-31** Date Collected: 5/24/2021 15:10

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.045	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	13i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060032** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-32** Date Collected: 5/24/2021 13:17

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.043	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060033** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-33** Date Collected: 5/24/2021 15:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.045	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060034** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-34** Date Collected: 5/24/2021 15:40

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.046	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:45	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	U	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS

Workorder: 2174060
Project ID: Okeechobee

Lab ID: **2174060035** Date Received: 5/25/2021 13:10 Matrix: Aqueous Liquid
Sample ID: **WS-35** Date Collected: 5/24/2021 15:50

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.045	mg/L	0.010	0.00500	1	5/26/2021 16:47	DB	6/2/2021 11:50	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	12i	mg/L	16	4.00	1			5/27/2021 12:35	LI	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 2174060

Project ID: Okeechobee

PARAMETER QUALIFIERS

PROJECT COMMENTS

2174060	A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "i" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.

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QUALITY CONTROL DATA

Workorder: 2174060

Project ID: Okeechobee

QC Batch: WXX/7707 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Phosphorus Prep

Associated Lab Samples: 2174060001, 2174060002, 2174060003, 2174060004, 2174060005, 2174060006, 2174060007, 2174060008, 2174060009, 2174060010, 2174060011, 2174060012, 2174060013, 2174060014, 2174060015, 2174060016, 2174060017, 2174060018, 2174060019, 2174060020

METHOD BLANK: 226325

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/L	U	0.0050	

LABORATORY CONTROL SAMPLE & LCSD: 226326 226327

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.25	0.23	0.23	93	91.7	85-115	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 226328 226329 Original: 2174060001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.075	0.25	0.34	0.33	105	102	85-115	3	20	

SAMPLE DUPLICATE: 226330 Original: 2174060001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.075	0.074	1.3	20	

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QUALITY CONTROL DATA

Workorder: 2174060

Project ID: Okeechobee

QC Batch: WXX/7708 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Phosphorus Prep

Associated Lab Samples: 2174060021, 2174060022, 2174060023, 2174060024, 2174060025, 2174060026, 2174060027, 2174060028, 2174060029, 2174060030, 2174060031, 2174060032, 2174060033, 2174060034, 2174060035, 2174077001

METHOD BLANK: 226416

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/L	U	0.0050	

LABORATORY CONTROL SAMPLE & LCSD: 226417 226418

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.25	0.24	0.26	96.2	102	85-115	8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 226419 226420 Original: 2174060021

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.039	0.33	0.35		92.3	95.4	85-115	2.8	20	

SAMPLE DUPLICATE: 226421 Original: 2174060021

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.039	0.042	7.4	20	

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QUALITY CONTROL DATA

Workorder: 2174060

Project ID: Okeechobee

QC Batch: REF/6918 Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Associated Lab Samples: 2174060001, 2174060002, 2174060003, 2174060004, 2174060005, 2174060006, 2174060007, 2174060008, 2174060009, 2174060010, 2174060011, 2174060012, 2174060013, 2174060014, 2174060015, 2174060016, 2174060017, 2174060018, 2174060019, 2174060020

METHOD BLANK: 226650

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	U	4.0	

SAMPLE DUPLICATE: 226651 Original: 2174060007

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8	8.0i	0	5	

SAMPLE DUPLICATE: 226652 Original: 2174060012

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.3	9.3i	0	5	

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA

Workorder: 2174060

Project ID: Okeechobee

QC Batch: REF/6919 Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Associated Lab Samples: 2174060021, 2174060022, 2174060023, 2174060024, 2174060025, 2174060026, 2174060027, 2174060028, 2174060029, 2174060030, 2174060031, 2174060032, 2174060033, 2174060034, 2174060035

METHOD BLANK: 226654

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	U	4.0	

SAMPLE DUPLICATE: 226655 Original: 2174060024

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	11	11i	0	5	

SAMPLE DUPLICATE: 226656 Original: 2174060031

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	13	13i	0	5	

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Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174060

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174060001	**WS-01**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060002	**WS-02**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060003	**WS-03**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060004	**WS-04**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060005	**WS-05**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060006	**WS-06**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060007	**WS-07**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060008	**WS-08**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060009	**WS-09**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060010	**WS-10**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060011	**WS-11**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060012	**WS-12**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060013	**WS-13**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060014	**WS-14**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060015	**WS-15**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060016	**WS-16**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060017	**WS-17**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060018	**WS-18**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060019	**WS-19**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060020	**WS-20**	Phosphorus Prep	WXX/7707	EPA 365.3 (Phosphorus)	WET/8472
2174060021	**WS-21**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060022	**WS-22**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060023	**WS-23**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060024	**WS-24**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174060

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174060025	**WS-25**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060026	**WS-26**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060027	**WS-27**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060028	**WS-28**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060029	**WS-29**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060030	**WS-30**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060031	**WS-31**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060032	**WS-32**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060033	**WS-33**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060034	**WS-34**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060035	**WS-35**	Phosphorus Prep	WXX/7708	EPA 365.3 (Phosphorus)	WET/8478
2174060001	**WS-01**	SM 2540D	REF/6918		
2174060002	**WS-02**	SM 2540D	REF/6918		
2174060003	**WS-03**	SM 2540D	REF/6918		
2174060004	**WS-04**	SM 2540D	REF/6918		
2174060005	**WS-05**	SM 2540D	REF/6918		
2174060006	**WS-06**	SM 2540D	REF/6918		
2174060007	**WS-07**	SM 2540D	REF/6918		
2174060008	**WS-08**	SM 2540D	REF/6918		
2174060009	**WS-09**	SM 2540D	REF/6918		
2174060010	**WS-10**	SM 2540D	REF/6918		
2174060011	**WS-11**	SM 2540D	REF/6918		
2174060012	**WS-12**	SM 2540D	REF/6918		
2174060013	**WS-13**	SM 2540D	REF/6918		
2174060014	**WS-14**	SM 2540D	REF/6918		
2174060015	**WS-15**	SM 2540D	REF/6918		
2174060016	**WS-16**	SM 2540D	REF/6918		

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174060

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174060017	**WS-17**	SM 2540D	REF/6918		
2174060018	**WS-18**	SM 2540D	REF/6918		
2174060019	**WS-19**	SM 2540D	REF/6918		
2174060020	**WS-20**	SM 2540D	REF/6918		
2174060021	**WS-21**	SM 2540D	REF/6919		
2174060022	**WS-22**	SM 2540D	REF/6919		
2174060023	**WS-23**	SM 2540D	REF/6919		
2174060024	**WS-24**	SM 2540D	REF/6919		
2174060025	**WS-25**	SM 2540D	REF/6919		
2174060026	**WS-26**	SM 2540D	REF/6919		
2174060027	**WS-27**	SM 2540D	REF/6919		
2174060028	**WS-28**	SM 2540D	REF/6919		
2174060029	**WS-29**	SM 2540D	REF/6919		
2174060030	**WS-30**	SM 2540D	REF/6919		
2174060031	**WS-31**	SM 2540D	REF/6919		
2174060032	**WS-32**	SM 2540D	REF/6919		
2174060033	**WS-33**	SM 2540D	REF/6919		
2174060034	**WS-34**	SM 2540D	REF/6919		
2174060035	**WS-35**	SM 2540D	REF/6919		

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/3/2021
Work Order # 21E1004
Project: Okeechobee

Lab ID: 21E1004
Matrix: Water

Received Date: 05/26/21 15:35
Collected By: Client

Analysis: Total Nitrogen

Laboratory Analysis Report

Wet Chemistry

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
WS-01	05/24/21 09:32	0.357	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-02	05/24/21 09:40	0.412	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-03	05/24/21 09:54	0.341	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-04	05/24/21 10:05	0.442	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-05	05/24/21 10:15	0.532	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-06	05/24/21 10:22	0.594		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-07	05/24/21 10:35	1.21		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-08	05/24/21 10:46	1.41		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-09	05/24/21 10:58	0.505	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-10	05/24/21 11:16	0.498	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-11	05/24/21 11:31	0.366	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-12	05/24/21 11:42	0.301	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-13	05/24/21 11:55	0.370	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-14	05/24/21 12:10	0.645		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-15	05/24/21 12:16	0.575		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-16	05/24/21 12:28	0.585		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-17	05/24/21 12:45	0.609		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-18	05/24/21 12:54	0.580		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-19	05/24/21 13:17	0.578		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-20	05/24/21 13:27	0.632		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/3/2021
Work Order # 21E1004
Project: Okeechobee

Lab ID: 21E1004
Matrix: Water

Received Date: 05/26/21 15:35
Collected By: Client

Analysis: Total Nitrogen

Laboratory Analysis Report

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry											
WS-21	05/24/21 13:38	0.597		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-22	05/24/21 13:44	0.686		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-23	05/24/21 12:50	0.657		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-24	05/24/21 13:57	0.430	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-25	05/24/21 14:07	0.437	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-26	05/24/21 14:20	0.493	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-27	05/24/21 14:35	0.703		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-28	05/24/21 14:43	0.784		mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-29	05/24/21 14:50	0.464	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-30	05/24/21 14:58	0.423	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-31	05/24/21 15:10	0.433	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-32	05/24/21 13:17	0.353	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-33	05/24/21 15:30	0.411	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-34	05/24/21 15:40	0.532	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD
WS-35	05/24/21 15:50	0.493	I	mg/L	1	0.00250	0.552	TKN + NOX	06/02 15:45	06/02 15:45	TD

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/3/2021
Work Order # 21E1004
Project: Okeechobee

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
Unless indicated, soil results are reported on actual (wet) weight basis.
Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Maria Castellanos - Lab Manager

Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services,Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Jupiter

Environmental Laboratories, LLC

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

SUB LAB COC

FLSpectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 4

21E1004

LABORATORY CLIENT: Jupiter Labs Tampa
ADDRESS: 2608 South 86th Street Suite B
CITY: Tampa
TEL: 561-262-8735
E-MAIL: clientservices@jupiterlabs.com

CLIENT PROJECT NAME / NUMBER: Okeechobee
SAMPLER(S): (SIGNATURE) John Heyman
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 3 DAY ☐ STD ☒

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Standard TAT

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TN Total Nitrogen
01	WS-01		05/24/21	932	SW	1	X
02	WS-02		05/24/21	940	SW	1	X
03	WS-03		05/24/21	954	SW	1	X
04	WS-04		05/24/21	1005	SW	1	X
05	WS-05		05/24/21	1015	SW	1	X
06	WS-06		05/24/21	1022	SW	1	X
07	WS-07		05/24/21	1035	SW	1	X
08	WS-08		05/24/21	1046	SW	1	X
09	WS-09		05/24/21	1058	SW	1	X
10	WS-10		05/24/21	1116	SW	1	X

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/26/21	Time: 1535
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

1.0°C

GUN-1

Page 4 of 7

Jupiter
Environmental Laboratories, LLC

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

SUB LAB COC

FLSpectrum

CHAIN OF CUSTODY RECORD

DATE:

21E1004

LABORATORY CLIENT: Jupiter Labs Tampa	CLIENT PROJECT NAME / NUMBER: Okeechobee
ADDRESS: 2608 South 86th Street Suite B	P.O. NO.:
CITY: Tampa	QUOTE NO.:
TEL: 561-262-8735 E-MAIL: clientservices@jupiterlabs.com	SAMPLER(S): (SIGNATURE) John Heyman
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 3 DAY ☐ STD ☒	LAB USE ONLY
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ ADaPT REPORTING ☐ SAMPLES UNTIL ___/___/___	
SPECIAL INSTRUCTIONS: Standard TAT	

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TN Total Nitrogen 15																	
11	WS-11		05/24/21	1131	SW	1	X																	
12	WS-12		05/24/21	1142	SW	1	X																	
13	WS-13		05/24/21	1155	SW	1	X																	
14	WS-14		05/24/21	1210	SW	1	X																	
15	WS-15		05/24/21	1216	SW	1	X																	
16	WS-16		05/24/21	1228	SW	1	X																	
17	WS-17		05/24/21	1245	SW	1	X																	
18	WS-18		05/24/21	1254	SW	1	X																	
19	WS-19		05/24/21	1317	SW	1	X																	
20	WS-20		05/24/21	1327	SW	1	X																	

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/24/21	Time: 1535
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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GUN-1

Jupiter
Environmental Laboratories, Inc.

2107004

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

SUB LAB COC

FLSpectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 3 OF 4

LABORATORY CLIENT: Jupiter Labs Tampa
ADDRESS: 2608 South 86th Street Suite B
CITY: Tampa
TEL: 561-262-8735
E-MAIL: clientservices@jupiterlabs.com

CLIENT PROJECT NAME / NUMBER: Okeechobee
SAMPLER(S): (SIGNATURE) John Heyman
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 3 DAY ☐ STD ☒

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Standard TAT

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TN Total Nitrogen
21	WS-21		05/24/21	1338	SW	1	X
22	WS-22		05/24/21	1344	SW	1	X
23	WS-23		05/24/21	1250	SW	1	X
24	WS-24		05/24/21	1357	SW	1	X
25	WS-25		05/24/21	1407	SW	1	X
26	WS-26		05/24/21	1420	SW	1	X
27	WS-27		05/24/21	1435	SW	1	X
28	WS-28		05/24/21	1443	SW	1	X
29	WS-29		05/24/21	1450	SW	1	X
30	WS-30		05/24/21	1458	SW	1	X

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/26/21	Time: 1535
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

ICE
10°C

GUN-1

Jupiter
Environmental Laboratories, LLC

21E 1004

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

SUB LAB COC

FLSpectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 4 OF 4

LABORATORY CLIENT:
Jupiter Labs Tampa

ADDRESS:
2608 South 86th Street Suite B

CITY:
Tampa

TEL:
561-262-8735

E-MAIL: clientservices@jupiterlabs.com

CLIENT PROJECT NAME / NUMBER:
Okeechobee

P.O. NO.:

QUOTE NO.:

SAMPLER(S): (SIGNATURE)
John Heyman

LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 3 DAY ☐ STD ☒

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Standard TAT

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TN Total Nitrogen 15																		
31	WS-31		05/24/21	1510	SW	1	X																		
32	WS-32		05/24/21	1317	SW	1	X																		
33	WS-33		05/24/21	1530	SW	1	X																		
34	WS-34		05/24/21	1540	SW	1	X																		
35	WS-35		05/24/21	1550	SW	1	X																		

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/26/21	Time: 1537
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

LCP
1.0°C

GUN-1

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 2174060
P.O. # _____
Quote # _____

Company Name Greenman-Pedersen, Inc
Address 1000 N Ashley Dr. Suite 100
City Tampa State FL Zip 33602
Sampling Site Address Kissimmee River
Attn: Jon Hull Email jhull@gpinet.com
Project Name Okeechobee Project # ~~EA~~
Sampler Name/Signature Chelsea Dickenson : Chelsea Dickenson

LAB ANALYSIS

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	TSS	Total Nitrogen	Total Phosphorus	Field Filtered (Y/N)	Comments
1	WS-01	5/24/21	0932	SW	3		X	X	X		
2	WS-02		0940				X	X	X		
3	WS-03		0954				X	X	X		
4	WS-04		1005				X	X	X		
5	WS-05		1015				X	X	X		
6	WS-06		1022				X	X	X		
7	WS-07		1035				X	X	X		
8	WS-08		1046				X	X	X		
9	WS-09		1058				X	X	X		
10	WS-10		1116				X	X	X		

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

Matrix Codes*
S Soil/Solid Sediment SW Surface Water
GW Ground Water SL Sludge
WW Waste Water O Other (Please Specify)
DW Drinking Water

Pres Codes
A- none I- Ice
B- HNO_3 O- Other
C- H_2SO_4 M- MeOH
D- NaOH N- $Na_2S_2O_3$
E- HCl Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/25/21	8:00		5/25/21	12:05
	5/25/21	13:10		5/25/21	1310

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 4.1 °C

2174060

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 2174060
P.O. # _____
Quote # _____

Company Name Greenman-Pedersen, Inc
Address 1000 N Ashley Dr. Suite 100
City Tampa State FL Zip 33602
Sampling Site Address Kissimmee River
Attn: Jon Hull Email jhull@gpinet.com
Project Name Okeechobee Project #
Sampler Name/Signature Chelsea Dickenson, CDS

LAB ANALYSIS

Parameters: TSS; Tot. Nitrogen; Tot. Phosphorus
Pres Codes
Field Filtered (Y/N)

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	TSS	Tot. Nitrogen	Tot. Phosphorus	Comments
1	WS-11	5/24/21	1131	SW	3	X	X	X	
2	WS-12		1142			X	X	X	
3	WS-13		1155			X	X	X	
4	WS-14		1210			X	X	X	
5	WS-15		1216			X	X	X	
6	WS-16		1228			X	X	X	
7	WS-17		1245			X	X	X	
8	WS-18		1254			X	X	X	
9	WS-19		1317			X	X	X	
20	WS-20		1327			X	X	X	

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none I- Ice; B- HNO_3 O- Other; C- H_2SO_4 M- MeOH; D- NaOH N- $Na_2S_2O_3$; E- HCl Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/25/21	8:00		5/25/21	12:05
	5/25/21	13:10		5/25/21	1310

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 4.1 °C

Page _____ of _____

2174060

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J.E.L. Log # 2174060
P.O. # _____
Quote # _____

Company Name: Greenmen-Pedersen, Inc
Address: 1000 N Ashley Dr. Suite 100
City: Tampa State: FL Zip: 33602
Sampling Site Address: Kissimmee River
Attn: Jon Hull Email: jhull@gpinet.com
Project Name: Okeechobee Project #
Sampler Name/Signature: Chelsea Dickenson

LAB ANALYSIS

Parameters: TSS; Tot. Nitrogen; Tot. Phosphorus

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	TSS	Tot. Nitrogen	Tot. Phosphorus	Field Filtered (Y/N)	Comments
21	WS-21	5/24/21	1338	SW	3		X	X	X		
22	WS-22		1344				X	X	X		
23	WS-23		1250				X	X	X		
24	WS-24		1357				X	X	X		
25	WS-25		1407				X	X	X		
26	WS-26		1420				X	X	X		
27	WS-27		1435				X	X	X		
28	WS-28		1443				X	X	X		
29	WS-29		1450				X	X	X		
30	WS-30		1458				X	X	X		

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water
GW Ground Water; SL Sludge
WW Waste Water; O Other (Please Specify)
DW Drinking Water

Pres Codes
A- none I- Ice
B- HNO_3 O- Other
C- H_2SO_4 M- MeOH
D- NaOH N- $Na_2S_2O_3$
E- HCl Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/25/21	8:00		5/25/21	12:25
	5/25/21	13:10		5/25/21	1310

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 4.1 °C

Page _____ of _____

2174060

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(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 2174060
P.O. # _____
Quote # _____

Company Name: Greenman-Pedersen, Inc
Address: 1000 N Ashley Dr. Suite 100
City: Tampa State: FL Zip: 33602
Sampling Site Address: Kissimmee
Attn: Jon Hull Email: jhull@gpinet.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Parameters: TDS	Tot. Nitrogen	Tot. Phosphorus	Field Filtered (Y/N)	Comments
31	WS-31	5/24/21	1510	SW	3		X	X	X		
32	WS-32	↓	1317	↓	↓		X	X	X		
33	WS-33		1530				X	X	X		
34	WS-34		1540				X	X	X		
35	WS-35		1550				X	X	X		
6											
7											
8											
9											
0											

LAB ANALYSIS

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none I- Ice; B- HNO_3 O- Other; C- H_2SO_4 M- MeOH; D- NaOH N- $Na_2S_2O_3$; E- HCl Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/25/21	8:00		5/25/21	12:05
	5/26/21	13:10		5/25/21	1310

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 4.1 °C

Page _____ of _____

2174060

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

SUB LAB COC

FLSpectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 4

LABORATORY CLIENT:
Jupiter Labs Tampa

ADDRESS:
2608 South 86th Street Suite B

CITY:
Tampa

TEL:
561-262-8735

E-MAIL: clientservices@jupiterlabs.com

CLIENT PROJECT NAME / NUMBER:
Okeechobee

P.O. NO.:

QUOTE NO.:

SAMPLER(S): (SIGNATURE)
John Heyman

LAB USE ONLY
☐☐-☐☐☐☐

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 3 DAY ☐ STD ☒

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Standard TAT

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TN Total Nitrogen
	WS-01		05/24/21	932	SW	1	X
	WS-02		05/24/21	940	SW	1	X
	WS-03		05/24/21	954	SW	1	X
	WS-04		05/24/21	1005	SW	1	X
	WS-05		05/24/21	1015	SW	1	X
	WS-06		05/24/21	1022	SW	1	X
	WS-07		05/24/21	1035	SW	1	X
	WS-08		05/24/21	1046	SW	1	X
	WS-09		05/24/21	1058	SW	1	X
	WS-10		05/24/21	1116	SW	1	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

SUB LAB COC

FLSpectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 2 OF 4

LABORATORY CLIENT: Jupiter Labs Tampa
ADDRESS: 2608 South 86th Street Suite B
CITY: Tampa
TEL: 561-262-8735
E-MAIL: clientservices@jupiterlabs.com
TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 3 DAY ☐ STD ☒
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ [illegible] SAMPLES UNTIL ___/___/___
SPECIAL INSTRUCTIONS
Standard TAT

CLIENT PROJECT NAME / NUMBER: Okeechobee
P.O. NO.:
QUOTE NO.:
SAMPLER(S): (SIGNATURE) John Heyman
LAB USE ONLY ☐☐-☐☐☐☐

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TN Total Nitrogen
	WS-11		05/24/21	1131	SW	1	X
	WS-12		05/24/21	1142	SW	1	X
	WS-13		05/24/21	1155	SW	1	X
	WS-14		05/24/21	1210	SW	1	X
	WS-15		05/24/21	1216	SW	1	X
	WS-16		05/24/21	1228	SW	1	X
	WS-17		05/24/21	1245	SW	1	X
	WS-18		05/24/21	1254	SW	1	X
	WS-19		05/24/21	1317	SW	1	X
	WS-20		05/24/21	1327	SW	1	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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Jupiter, FL 33458
561-575-0030

SUB LAB COC

FLSpectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 3 OF 4

LABORATORY CLIENT:
Jupiter Labs Tampa

ADDRESS:
2608 South 86th Street Suite B

CITY:
Tampa

TEL:
561-262-8735

E-MAIL: clientservices@jupiterlabs.com

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 3 DAY ☐ STD ☒

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ [illegible] SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Standard TAT

CLIENT PROJECT NAME / NUMBER:
Okeechobee

P.O. NO.:

QUOTE NO.:

SAMPLER(S): (SIGNATURE)
John Heyman

LAB USE ONLY
☐☐-☐☐☐☐

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TN Total Nitrogen
	WS-21		05/24/21	1338	SW	1	X
	WS-22		05/24/21	1344	SW	1	X
	WS-23		05/24/21	1250	SW	1	X
	WS-24		05/24/21	1357	SW	1	X
	WS-25		05/24/21	1407	SW	1	X
	WS-26		05/24/21	1420	SW	1	X
	WS-27		05/24/21	1435	SW	1	X
	WS-28		05/24/21	1443	SW	1	X
	WS-29		05/24/21	1450	SW	1	X
	WS-30		05/24/21	1458	SW	1	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

SUB LAB COC

FLSpectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 4 OF 4

LABORATORY CLIENT: Jupiter Labs Tampa
ADDRESS: 2608 South 86th Street Suite B
CITY: Tampa
TEL: 561-262-8735
E-MAIL: clientservices@jupiterlabs.com

CLIENT PROJECT NAME / NUMBER: Okeechobee
P.O. NO.:
QUOTE NO.:
SAMPLER(S): (SIGNATURE) John Heyman
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 3 DAY ☐ STD ☒

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ [illegible] SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Standard TAT

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TN Total Nitrogen
	WS-31		05/24/21	1510	SW	1	X
	WS-32		05/24/21	1317	SW	1	X
	WS-33		05/24/21	1530	SW	1	X
	WS-34		05/24/21	1540	SW	1	X
	WS-35		05/24/21	1550	SW	1	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	2174060	**Profile:**	3905
Client:	Black&Veatch	**Project:**	Jon Dinges
Level:	1	**Date Rec'd:**	5/25/2021 1:10:00 PM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Security Tape Present	Security Tape Intact	Method of Receipt	Comments
	4.1	35	☐	☐		

Checked By: CF

Sample Verification

Loose Caps?	No	**All Samples on COC accounted For?**	Yes
Broken Containers?	No	**All Samples on COC?**	Yes
pH Verified?	Yes	**Written on Internal COC?**	No
pH Strip Lot #	HC022887	**Sample Vol. Suff. For Analysis?**	Yes
Acid Preserved Samples Lot #		**Samples Rec'd W/I Hold Time?**	Yes
Base Preserved Samples Lot #		**Are All Samples to be Analyzed?**	Yes
Samples Received From	courier	**Correct Sample Containers?**	Yes
Soil Origin (Domestic/Foreign		**COC Comments written on COC?**	No
Site Location/Project on COC?	Yes	**Samplers Initials on COC?**	Yes
Client Project # on COC?	No	**Sample Date/Time Indicated?**	Yes
Project Mgr. Indicated on COC	Yes	**TAT Requested:**	STD
COC relinquished/Dated by Client?	Yes	**Client Requests Verbal Results?**	No
COC Received/Dated by JEL	Yes	**Client Notified of discrepancies?**	No
JEL to Conduct ALL Analyses?	No	**Do VOC vials have headspace or a bubble <6mm (1/4")?**	No
Number of Encores		**Number of Lab Filtered Metals**	

Subcontract Analysis

Parameter	Via	Lab Name	Comments
Total Nitrogen	Other	Spectrum Analytical, Inc.	Sub out

John Heyman

From: Dinges, Jon <DingesJ@bv.com> on behalf of Dinges, Jon
Sent: Tuesday, May 25, 2021 3:10 PM
To: John Heyman; Jon Hull
Subject: RE: Okeechobee samples - GPI or Black&Veatch

John Heyman – please bill and report to Black & Veatch (me). I should receive the credit application from my finance team later today or tomorrow.

JON M. DINGES P.E.* | Senior Water Resources Planning Leader
Black & Veatch Corporation
3405 W. Dr. Martin Luther King Jr. Blvd., Suite 125, Tampa, FL 33607
+ 1 386-361-5374 M | DingesJ@BV.com
*Licensed in Florida
Building a World of Difference.®

From: John Heyman <jheyman@jupiterlabs.com>
Sent: Tuesday, May 25, 2021 3:07 PM
To: Jon Hull <jhull@gpinet.com>; Dinges, Jon <DingesJ@bv.com>
Subject: RE: Okeechobee samples - GPI or Black&Veatch

We have these samples on hold awaiting your response.

Thanks!
John

From: John Heyman [mailto:jheyman@jupiterlabs.com]
Sent: Tuesday, May 25, 2021 2:18 PM
To: 'Jon Hull' <jhull@gpinet.com>; 'Dinges, Jon' <DingesJ@bv.com>
Subject: Okeechobee samples - GPI or Black&Veatch

Good afternoon. COCs attached.

Please let me know if we should report to / bill to GPI or Black & Veatch.

COC indicates reporting/billing to GPI.

Thanks!

John Heyman
Senior Project Manager
Jupiter Labs – Tampa
2608 South 86th St. Suite B
Tampa, FL 33619
561-262-8735
www.jupiterlabs.com

We will be closed Saturday, May 29nd – Monday, May 31st for Memorial Day. We are open Friday, May 28th, but will not accept any short holds or bacteria samples. Have a safe and fun holiday!

We care about your opinion, please take our survey to provide important feedback at https://www.jupiterlabs.com/index.php/survey/

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118
www.jupiterlabs.com
clientservices@jupiterlabs.com

June 9, 2021

Jon Dinges
Black & Veatch Corporation
3405 W. Dr. Martin Luther King
Suite 125
Tampa, FL 33607

RE: LOG# 2174087
Project ID: Okeechobee
COC# 2174087

Dear Jon Dinges:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, May 26, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

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

Sincerely,

John Heyman for
Kacia Baldwin
kaciab@jupiterlabs.com

CASE NARRATIVE

Jupiter Environmental Laboratories Inc. Lab Reference No./SDG: 2174087

Client: Black&Veatch

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

The following samples were diluted:

ClientID	LabID	Method	Dilution
WS-36	2174087001	EPA 365.3 (Phosphorus)	20
WS-37	2174087002	EPA 365.3 (Phosphorus)	10
WS-38	2174087003	EPA 365.3 (Phosphorus)	10
WS-39	2174087004	EPA 365.3 (Phosphorus)	10
WS-40	2174087005	EPA 365.3 (Phosphorus)	10
WS-41	2174087006	EPA 365.3 (Phosphorus)	10
WS-42	2174087007	EPA 365.3 (Phosphorus)	10
WS-43	2174087008	EPA 365.3 (Phosphorus)	10
WS-44	2174087009	EPA 365.3 (Phosphorus)	10
WS-45	2174087010	EPA 365.3 (Phosphorus)	10
WS-47	2174087012	EPA 365.3 (Phosphorus)	10
WS-48	2174087013	EPA 365.3 (Phosphorus)	10
WS-56	2174087021	EPA 365.3 (Phosphorus)	2

II. METHODS

Samples were analyzed according to JEL's Standard Operating Procedures for following Method(s):

EPA 365.3 (Phosphorus), SM 2540D

III. Analysis

Sample analysis proceeded normally with the exception of following:

Exceptions:

Method: EPA 365.3 (Phosphorus)

Flag: J4|MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

Following Samples/Analytes were flagged:

- LabID: 226534; MSD
  Analytes: Total Phosphorus

Flag: J4h|MS/MSD recovery exceeded control limits due to high background sample concentration. LCS/LCSD recovery was within acceptable range.

Following Samples/Analytes were flagged:

- LabID: 226533; MS
  Analytes: Total Phosphorus
- LabID: 2174087001; SampleID: WS-36
  Analytes: Total Phosphorus

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Jupiter Environmental Laboratories, Inc., both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

SIGNED: DATE: 6/9/21

John Heyman for
Kacia Baldwin
V.P. of Operations

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 2174087

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174087001	WS-36	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087002	WS-37	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087003	WS-38	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087004	WS-39	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087005	WS-40	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087006	WS-41	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087007	WS-42	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087008	WS-43	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087009	WS-44	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087010	WS-45	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087011	WS-46	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087012	WS-47	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087013	WS-48	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087014	WS-49	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087015	WS-50	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087016	WS-51	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087017	WS-52	EPA 365.3 (Phosphorus)	1
		SM 2540D	1

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 2174087

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174087018	WS-53	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087019	WS-54	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087020	WS-55	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087021	WS-56	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087022	WS-57	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087023	WS-58	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087024	WS-59	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087025	WS-60	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174087026	WS-61	EPA 365.3 (Phosphorus)	1
		SM 2540D	1

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SAMPLE SUMMARY

Workorder: 2174087

Project ID: Okeechobee

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2174087001	WS-36	Aqueous Liquid	5/25/2021 09:38	5/26/2021 14:45
2174087002	WS-37	Aqueous Liquid	5/25/2021 09:52	5/26/2021 14:45
2174087003	WS-38	Aqueous Liquid	5/25/2021 10:12	5/26/2021 14:45
2174087004	WS-39	Aqueous Liquid	5/25/2021 10:28	5/26/2021 14:45
2174087005	WS-40	Aqueous Liquid	5/25/2021 10:40	5/26/2021 14:45
2174087006	WS-41	Aqueous Liquid	5/25/2021 10:50	5/26/2021 14:45
2174087007	WS-42	Aqueous Liquid	5/25/2021 11:03	5/26/2021 14:45
2174087008	WS-43	Aqueous Liquid	5/25/2021 11:15	5/26/2021 14:45
2174087009	WS-44	Aqueous Liquid	5/25/2021 11:29	5/26/2021 14:45
2174087010	WS-45	Aqueous Liquid	5/25/2021 11:43	5/26/2021 14:45
2174087011	WS-46	Aqueous Liquid	5/25/2021 11:52	5/26/2021 14:45
2174087012	WS-47	Aqueous Liquid	5/25/2021 12:02	5/26/2021 14:45
2174087013	WS-48	Aqueous Liquid	5/25/2021 12:17	5/26/2021 14:45
2174087014	WS-49	Aqueous Liquid	5/25/2021 12:32	5/26/2021 14:45
2174087015	WS-50	Aqueous Liquid	5/25/2021 12:44	5/26/2021 14:45
2174087016	WS-51	Aqueous Liquid	5/25/2021 12:55	5/26/2021 14:45
2174087017	WS-52	Aqueous Liquid	5/25/2021 13:07	5/26/2021 14:45
2174087018	WS-53	Aqueous Liquid	5/25/2021 13:20	5/26/2021 14:45
2174087019	WS-54	Aqueous Liquid	5/25/2021 13:30	5/26/2021 14:45
2174087020	WS-55	Aqueous Liquid	5/25/2021 13:45	5/26/2021 14:45
2174087021	WS-56	Aqueous Liquid	5/25/2021 14:05	5/26/2021 14:45
2174087022	WS-57	Aqueous Liquid	5/25/2021 14:14	5/26/2021 14:45
2174087023	WS-58	Aqueous Liquid	5/25/2021 14:15	5/26/2021 14:45
2174087024	WS-59	Aqueous Liquid	5/25/2021 14:35	5/26/2021 14:45
2174087025	WS-60	Aqueous Liquid	5/25/2021 14:47	5/26/2021 14:45
2174087026	WS-61	Aqueous Liquid	5/25/2021 14:55	5/26/2021 14:45

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087001** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-36** Date Collected: 5/25/2021 09:38

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	5.0	mg/L	0.20	0.100	20	5/28/2021 16:20	DB	6/2/2021 13:36	DB	J4h
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	110	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087002** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-37** Date Collected: 5/25/2021 09:52

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	4.7	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:23	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	160	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087003** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-38** Date Collected: 5/25/2021 10:12

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	3.9	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:23	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	50	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087004** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-39** Date Collected: 5/25/2021 10:28

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	3.2	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:23	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	49	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087005** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-40** Date Collected: 5/25/2021 10:40

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	2.7	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:23	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	40	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087006** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-41** Date Collected: 5/25/2021 10:50

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	2.6	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:27	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	40	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087007** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-42** Date Collected: 5/25/2021 11:03

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	2.7	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:27	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	54	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087008** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-43** Date Collected: 5/25/2021 11:15

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	2.4	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:27	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	36	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087009** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-44** Date Collected: 5/25/2021 11:29

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	2.2	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:27	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	30	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087010** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-45** Date Collected: 5/25/2021 11:43

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	1.9	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:27	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	32	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087011** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-46** Date Collected: 5/25/2021 11:52

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.21	mg/L	0.010	0.00500	1	5/28/2021 16:20	DB	6/2/2021 11:55	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	37	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087012** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-47** Date Collected: 5/25/2021 12:02

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	1.5	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:27	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	23	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087013** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-48** Date Collected: 5/25/2021 12:17

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.72	mg/L	0.10	0.0500	10	5/28/2021 16:20	DB	6/2/2021 13:32	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	19	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087014** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-49** Date Collected: 5/25/2021 12:32

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.50	mg/L	0.010	0.00500	1	5/28/2021 16:20	DB	6/2/2021 12:00	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	15i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087015** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-50** Date Collected: 5/25/2021 12:44

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.44	mg/L	0.010	0.00500	1	5/28/2021 16:20	DB	6/2/2021 12:00	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	12i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087016** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-51** Date Collected: 5/25/2021 12:55

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.43	mg/L	0.010	0.00500	1	5/28/2021 16:20	DB	6/2/2021 12:00	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	U	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087017** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-52** Date Collected: 5/25/2021 13:07

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.018	mg/L	0.010	0.00500	1	5/28/2021 16:20	DB	6/2/2021 12:00	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	12i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087018** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-53** Date Collected: 5/25/2021 13:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.41	mg/L	0.010	0.00500	1	5/28/2021 16:20	DB	6/2/2021 12:00	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	17	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087019** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-54** Date Collected: 5/25/2021 13:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.40	mg/L	0.010	0.00500	1	5/28/2021 16:20	DB	6/2/2021 12:00	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087020** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-55** Date Collected: 5/25/2021 13:45

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.36	mg/L	0.010	0.00500	1	5/28/2021 16:20	DB	6/2/2021 12:00	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	27	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087021** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-56** Date Collected: 5/25/2021 14:05

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.32	mg/L	0.020	0.0100	2	6/1/2021 16:39	DB	6/2/2021 14:40	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	9.3i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087022** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-57** Date Collected: 5/25/2021 14:14

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.29	mg/L	0.010	0.00500	1	6/1/2021 16:39	DB	6/2/2021 12:05	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	12i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087023** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-58** Date Collected: 5/25/2021 14:15

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.22	mg/L	0.010	0.00500	1	6/1/2021 16:39	DB	6/2/2021 12:05	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	15i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087024** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-59** Date Collected: 5/25/2021 14:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.21	mg/L	0.010	0.00500	1	6/1/2021 16:39	DB	6/2/2021 12:05	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	14i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087025** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-60** Date Collected: 5/25/2021 14:47

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.32	mg/L	0.010	0.00500	1	6/1/2021 16:39	DB	6/2/2021 12:05	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	13i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS

Workorder: 2174087
Project ID: Okeechobee

Lab ID: **2174087026** Date Received: 5/26/2021 14:45 Matrix: Aqueous Liquid
Sample ID: **WS-61** Date Collected: 5/25/2021 14:55

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.33	mg/L	0.010	0.00500	1	6/1/2021 16:39	DB	6/2/2021 12:08	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	10i	mg/L	16	4.00	1			5/27/2021 15:40	LI	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 2174087

Project ID: Okeechobee

PARAMETER QUALIFIERS

J4h	MS/MSD recovery exceeded control limits due to high background sample concentration. LCS/LCSD recovery was within acceptable range.

PROJECT COMMENTS

2174087	A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "i" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.

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QUALITY CONTROL DATA

Workorder: 2174087

Project ID: Okeechobee

QC Batch: WXX/7712 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Phosphorus Prep

Associated Lab Samples: 2174087001, 2174087002, 2174087003, 2174087004, 2174087005, 2174087006, 2174087007, 2174087008, 2174087009, 2174087010, 2174087011, 2174087012, 2174087013, 2174087014, 2174087015, 2174087016, 2174087017, 2174087018, 2174087019, 2174087020

METHOD BLANK: 226530

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/L	U	0.0050	

LABORATORY CONTROL SAMPLE & LCSD: 226531 226532

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.25	0.25	0.25	101	102	85-115	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 226533 226534 Original: 2174087001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	5	0.25	5.1		45.5	43.6	85-115	0	20	J4h

SAMPLE DUPLICATE: 226535 Original: 2174087001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	5	5.0	0	20	

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QUALITY CONTROL DATA

Workorder: 2174087

Project ID: Okeechobee

QC Batch: REF/6920 Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Associated Lab Samples: 2174087001, 2174087002, 2174087003, 2174087004, 2174087005, 2174087006, 2174087007, 2174087008, 2174087009, 2174087010, 2174087011, 2174087012, 2174087013, 2174087014, 2174087015, 2174087016, 2174087017, 2174087018, 2174087019, 2174087020

METHOD BLANK: 226661

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	U	4.0	

SAMPLE DUPLICATE: 226662 Original: 2174087005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	40	39	2.5	5	

SAMPLE DUPLICATE: 226663 Original: 2174087015

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12	12i	0	5	

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QUALITY CONTROL DATA

Workorder: 2174087

Project ID: Okeechobee

QC Batch: REF/6921 Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Associated Lab Samples: 2174087021 2174087022 2174087023 2174087024 2174087025 2174087026

METHOD BLANK: 226664

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	U	4.0	

SAMPLE DUPLICATE: 226665 Original: 2174087021

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.3	9.3i	0	5	

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QUALITY CONTROL DATA

Workorder: 2174087

Project ID: Okeechobee

QC Batch: WXX/7720 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Phosphorus Prep

Associated Lab Samples: 2174087021 2174087022 2174087023 2174087024 2174087025 2174087026 2174101019 2174123014 2174123015 2174123016 2174123017

METHOD BLANK: 226798

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/L	U	0.0050	

LABORATORY CONTROL SAMPLE & LCSD: 226799 226800

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.25	0.25	0.24	98.8	97.9	85-115	4.1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 226801 226802 Original: 2174087021

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.32	0.25	0.56	0.59	96.9	106	85-115	5.2	20	

SAMPLE DUPLICATE: 226803 Original: 2174087021

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.32	0.33	3.1	20	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 2174087

Project ID: Okeechobee

QUALITY CONTROL PARAMETER QUALIFIERS

J4h	MS/MSD recovery exceeded control limits due to high background sample concentration. LCS/LCSD recovery was within acceptable range.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174087

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174087001	**WS-36**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087002	**WS-37**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087003	**WS-38**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087004	**WS-39**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087005	**WS-40**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087006	**WS-41**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087007	**WS-42**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087008	**WS-43**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087009	**WS-44**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087010	**WS-45**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087011	**WS-46**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087012	**WS-47**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087013	**WS-48**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087014	**WS-49**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087015	**WS-50**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087016	**WS-51**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087017	**WS-52**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087018	**WS-53**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087019	**WS-54**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087020	**WS-55**	Phosphorus Prep	WXX/7712	EPA 365.3 (Phosphorus)	WET/8478
2174087001	**WS-36**	SM 2540D	REF/6920		
2174087002	**WS-37**	SM 2540D	REF/6920		
2174087003	**WS-38**	SM 2540D	REF/6920		
2174087004	**WS-39**	SM 2540D	REF/6920		

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Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174087

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174087005	**WS-40**	SM 2540D	REF/6920		
2174087006	**WS-41**	SM 2540D	REF/6920		
2174087007	**WS-42**	SM 2540D	REF/6920		
2174087008	**WS-43**	SM 2540D	REF/6920		
2174087009	**WS-44**	SM 2540D	REF/6920		
2174087010	**WS-45**	SM 2540D	REF/6920		
2174087011	**WS-46**	SM 2540D	REF/6920		
2174087012	**WS-47**	SM 2540D	REF/6920		
2174087013	**WS-48**	SM 2540D	REF/6920		
2174087014	**WS-49**	SM 2540D	REF/6920		
2174087015	**WS-50**	SM 2540D	REF/6920		
2174087016	**WS-51**	SM 2540D	REF/6920		
2174087017	**WS-52**	SM 2540D	REF/6920		
2174087018	**WS-53**	SM 2540D	REF/6920		
2174087019	**WS-54**	SM 2540D	REF/6920		
2174087020	**WS-55**	SM 2540D	REF/6920		
2174087021	**WS-56**	SM 2540D	REF/6921		
2174087022	**WS-57**	SM 2540D	REF/6921		
2174087023	**WS-58**	SM 2540D	REF/6921		
2174087024	**WS-59**	SM 2540D	REF/6921		
2174087025	**WS-60**	SM 2540D	REF/6921		
2174087026	**WS-61**	SM 2540D	REF/6921		
2174087021	**WS-56**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174087022	**WS-57**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174087023	**WS-58**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174087024	**WS-59**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174087025	**WS-60**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174087

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174087026	**WS-61**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/8/2021
Work Order # 21E1092
Project: 2174087

Lab ID: 21E1092
Matrix: Water

Received Date: 05/28/21 16:23
Collected By: Client

Analysis: Total Nitrogen

Laboratory Analysis Report

Wet Chemistry

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
2174087001	05/25/21 09:38	18.6		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087002	05/25/21 09:52	19.3		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087003	05/25/21 10:12	14.7		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087004	05/25/21 10:28	11.4		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087005	05/25/21 10:40	11.8		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087006	05/25/21 00:00	11.6		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087007	05/25/21 11:03	12.7		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087008	05/25/21 11:15	9.74		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087009	05/25/21 11:29	9.51		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087010	05/25/21 11:43	6.42		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087011	05/25/21 11:52	6.57		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087012	05/25/21 12:02	5.45		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087013	05/25/21 12:17	1.52		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087014	05/25/21 12:32	1.93		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087015	05/25/21 12:44	0.844		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087016	05/25/21 00:00	0.969		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087017	05/25/21 13:07	0.682		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087018	05/25/21 13:20	1.36		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087019	05/25/21 13:30	1.23		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087020	05/25/21 13:45	1.10		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/8/2021
Work Order # 21E1092
Project: 2174087

Lab ID: 21E1092
Matrix: Water
Received Date: 05/28/21 16:23
Collected By: Client

Analysis: Total Nitrogen

Laboratory Analysis Report

Wet Chemistry

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
2174087021	05/25/21 14:05	1.67		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087022	05/25/21 14:14	0.820		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087023	05/25/21 14:15	1.92		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087024	05/25/21 14:35	1.61		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087025	05/25/21 14:47	0.800		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC
2174087026	05/25/21 14:50	1.21		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/8/2021
Work Order # 21E1092
Project: 2174087

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
Unless indicated, soil results are reported on actual (wet) weight basis.
Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Maria Castellanos - Lab Manager

Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services,Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Jupiter
Environmental Laboratory, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

21E1092

CHAIN OF CUSTODY RECORD

DATE:
PAGE: 1 OF 3

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174087
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
GUN 1 2.0 ml

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: Total Nitrogen
01	2174087001		05/25/21	0938	SW	1	x
02	2174087002		05/25/21	0952	SW	1	x
03	2174087003		05/25/21	1012	SW	1	x
04	2174087004		05/25/21	1028	SW	1	x
05	2174087005		05/25/21	1040	SW	1	x
06	2174087006		05/25/21	0:00	SW	1	x
07	2174087007		05/25/21	1103	SW	1	x
08	2174087008		05/25/21	1115	SW	1	x
09	2174087009		05/25/21	1129	SW	1	x
10	2174087010		05/25/21	1143	SW	1	x

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1425
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1623
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum 21E1092

CHAIN OF CUSTODY RECORD

DATE:
PAGE: 2 OF 3

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174087
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
GUN 1 2.0 1.2

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: Total Nitrogen
11	2174087011		05/25/21	1152	SW	1	x
12	2174087012		05/25/21	1202	SW	1	x
13	2174087013		05/25/21	1217	SW	1	x
14	2174087014		05/25/21	1232	SW	1	x
15	2174087015		05/25/21	1244	SW	1	x
16	2174087016		05/25/21	0:00	SW	1	x
17	2174087017		05/25/21	1307	SW	1	x
18	2174087018		05/25/21	1320	SW	1	x
19	2174087019		05/25/21	1330	SW	1	x
20	2174087020		05/25/21	1345	SW	1	x

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1525
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1623
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Jupiter
Environmental Laboratory, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

21E1092

CHAIN OF CUSTODY RECORD

DATE:
PAGE: 3 OF 3

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174087
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030	P.O. NO.:
	QUOTE NO.:
	LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

GUN 1 2.0 ml

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: Total Nitrogen (x5)
21	2174087021		05/25/21	1405	SW	1	x
22	2174087022		05/25/21	1414	SW	1	x
23	2174087023		05/25/21	1415	SW	1	x
24	2174087024		05/25/21	1435	SW	1	x
25	2174087025		05/25/21	1447	SW	1	x
26	2174087026		05/25/21	303 14:5	SW	1	x

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1926
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1623
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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J.E.L. Log # 217408?
P.O. # _____
Quote # _____

Company Name: Black & Veatch
Address: 3405 W. Dr Martin Luther King Jr Blvd.
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon M. Dinges Email: DingesJM@BV.com
Project Name: Okeechobee Project #
Sampler Name/Signature: Chelsea Dickenson

LAB ANALYSIS

Parameters: TSS; Tot. Nitrogen; Tot. Phosphorus

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due___/___/___

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	TSS	Tot. Nitrogen	Tot. Phosphorus	Field Filtered (Y/N)	Comments
1	WS-36	5/25/21	0938	SW	3		X	X	X		
2	WS-37	5/25/21	0952				X	X	X		
3	WS-38		1012				X	X	X		
4	WS-39		1028				X	X	X		
5	WS-40		1040				X	X	X		
6	WS-41		1050				X	X	X		
7	WS-42		1103				X	X	X		
8	WS-43		1115				X	X	X		
9	WS-44		1129				X	X	X		
10	WS-45		1143				X	X	X		

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none; I- Ice; B- HNO_3; O- Other; C- H_2SO_4; M- MeOH; D- NaOH; N- $Na_2S_2O_3$; E- HCl; Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/26/21	800		5/26/21	13:10
	5/26/21	14:45		5/26/21	1445

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 3.2 °C

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J.E.L. Log # 2174087
P.O. # _____
Quote # _____

Company Name: Black & Veatch
Address: 3405 W. Dr Martin Luther King Jr
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon M. Dinges Email: DingesJM@BV.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	TSS	Tot. Nitrogen	Tot Phosphorus	Field Filtered (Y/N)	Comments
1	WS-46	5/25/21	1152	SW	3		X	X	X		
2	WS-47	5/25/21	1202				X	X	X		
3	WS-48		1217				X	X	X		
4	WS-49		1232				X	X	X		
5	WS-50		1244				X	X	X		
6	WS-51		1255				X	X	X		
7	WS-52		1307				X	X	X		
8	WS-53		1320				X	X	X		
9	WS-54		1330				X	X	X		
10	WS-55		1345				X	X	X		

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due___/___/___

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none I- Ice; B- HNO_3 O- Other; C- H_2SO_4 M- MeOH; D- NaOH N- $Na_2S_2O_3$; E- HCl Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/26/21	800		5/26/21	13:10
	5/26/24	14:45		5/26/21	1445

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 3.2 °C

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J.E.L. Log # 217087
P.O. # _____
Quote # _____

Company Name: Black & Veatch
Address: 3405 W. Dr. MLK Jr. Blvd. Suite 125
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon M Dinges Email: DingesJM@BV.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson

LAB ANALYSIS

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	TSS	Tot. Nitrogen	Tot. Phospho.	Field Filtered (Y/N)	Comments
1	WS-56	5/25/21	1405	SW	3		X	X	X		
2	WS-57		1414				X	X	X		
3	WS-58		1415 ~~1405~~				X	X	X		
4	WS-59		1435				X	X	X		
5	WS-60		1447				X	X	X		
6	WS-61		1455				X	X	X		
7											
8											
9											
10											

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none; I- Ice; B- HNO_3; O- Other; C- H_2SO_4; M- MeOH; D- NaOH; N- $Na_2S_2O_3$; E- HCl; Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/25/21	800		5/26/21	13:10
	5/26/21	14:45		5/26/21	1445

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 3.2°C

CHAIN OF CUSTODY RECORD

Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

DATE:

PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174087
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030 -	P.O. NO.:
	QUOTE NO.:
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total Nitrogen
	2174087001		05/25/21	0938	SW	1		x
	2174087002		05/25/21	0952	SW	1		x
	2174087003		05/25/21	1012	SW	1		x
	2174087004		05/25/21	1028	SW	1		x
	2174087005		05/25/21	1040	SW	1		x
	2174087006		05/25/21	0:00	SW	1		x
	2174087007		05/25/21	1103	SW	1		x
	2174087008		05/25/21	1115	SW	1		x
	2174087009		05/25/21	1129	SW	1		x
	2174087010		05/25/21	1143	SW	1		x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

CHAIN OF CUSTODY RECORD

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

DATE:

PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs
ADDRESS: 150 S. Old Dixie Hwy
CITY: Jupiter, Fl, 33458
TEL: 561-575-0030 -

CLIENT PROJECT NAME / NUMBER: 2174087
PROJECT CONTACT: Rebecca Lourido
SAMPLER(S): (SIGNATURE)

P.O. NO.:
QUOTE NO.:
LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ____ / ____ / ____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total Nitrogen
	2174087011		05/25/21	1152	SW	1		x
	2174087012		05/25/21	1202	SW	1		x
	2174087013		05/25/21	1217	SW	1		x
	2174087014		05/25/21	1232	SW	1		x
	2174087015		05/25/21	1244	SW	1		x
	2174087016		05/25/21	0:00	SW	1		x
	2174087017		05/25/21	1307	SW	1		x
	2174087018		05/25/21	1320	SW	1		x
	2174087019		05/25/21	1330	SW	1		x
	2174087020		05/25/21	1345	SW	1		x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

CHAIN OF CUSTODY RECORD

Jupiter
Environmental Laboratories, Inc

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

DATE:

PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs		CLIENT PROJECT NAME / NUMBER: 2174087	P.O. NO.:
ADDRESS: 150 S. Old Dixie Hwy		PROJECT CONTACT: Rebecca Lourido	QUOTE NO.:
CITY: Jupiter, Fl, 33458		SAMPLER(S): (SIGNATURE)	LAB USE ONLY
TEL: 561-575-0030	-		

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total Nitrogen
	2174087021		05/25/21	1405	SW	1		x
	2174087022		05/25/21	1414	SW	1		x
	2174087023		05/25/21	1415	SW	1		x
	2174087024		05/25/21	1435	SW	1		x
	2174087025		05/25/21	1447	SW	1		x
	2174087026		05/25/21	903 14:5	SW	1		x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	2174087	**Profile:**	3905
Client:	Black&Veatch	**Project:**	Jon Dinges
Level:	1	**Date Rec'd:**	5/26/2021 2:45:00 PM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Security Tape Present	Security Tape Intact	Method of Receipt	Comments
	3.2	26	☐	☐		

Checked By: tj

Sample Verification

Loose Caps?	No	**All Samples on COC accounted For?**	Yes
Broken Containers?	No	**All Samples on COC?**	Yes
pH Verified?	Yes	**Written on Internal COC?**	No
pH Strip Lot #	Hc022887	**Sample Vol. Suff. For Analysis?**	Yes
Acid Preserved Samples Lot #	17910	**Samples Rec'd W/I Hold Time?**	Yes
Base Preserved Samples Lot #		**Are All Samples to be Analyzed?**	Yes
Samples Received From	courier	**Correct Sample Containers?**	Yes
Soil Origin (Domestic/Foreign		**COC Comments written on COC?**	No
Site Location/Project on COC?	Yes	**Samplers Initials on COC?**	Yes
Client Project # on COC?	Yes	**Sample Date/Time Indicated?**	Yes
Project Mgr. Indicated on COC	Yes	**TAT Requested:**	STD
COC relinquished/Dated by Client?	Yes	**Client Requests Verbal Results?**	No
COC Received/Dated by JEL	Yes	**Client Notified of discrepancies?**	No
JEL to Conduct ALL Analyses?	No	**Do VOC vials have headspace or a bubble <6mm (1/4")?**	N/A
Number of Encores	0	**Number of Lab Filtered Metals**	0

Subcontract Analysis

Parameter	Via	Lab Name	Comments
tn	Other	Spectrum Analytical, Inc.	

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
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clientservices@jupiterlabs.com

June 8, 2021

Jon Dinges
Black & Veatch Corporation
3405 W. Dr. Martin Luther King
Suite 125
Tampa, FL 33607

RE: LOG# 2174101
Project ID: Okeechobee
COC# 2174101

Dear Jon Dinges:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, May 27, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

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

Sincerely,

John Heyman
jheyman@jupiterlabs.com

CASE NARRATIVE

Jupiter Environmental Laboratories Inc. Lab Reference No./SDG: 2174101

Client: Black&Veatch

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

The following samples were diluted:

ClientID	LabID	Method	Dilution
SS-11	2174101002	EPA 365.3 (Phosphorus)	2
SS-12	2174101003	EPA 365.3 (Phosphorus)	10
SS-13	2174101004	EPA 365.3 (Phosphorus)	10
SS-14	2174101005	EPA 365.3 (Phosphorus)	2
SS-15	2174101006	EPA 365.3 (Phosphorus)	2
SS-16	2174101007	EPA 365.3 (Phosphorus)	2
SS-17	2174101008	EPA 365.3 (Phosphorus)	2
SS-18	2174101009	EPA 365.3 (Phosphorus)	2
SS-01	2174101010	EPA 365.3 (Phosphorus)	10
SS-02	2174101011	EPA 365.3 (Phosphorus)	2
SS-03	2174101012	EPA 365.3 (Phosphorus)	2
SS-04	2174101013	EPA 365.3 (Phosphorus)	2
SS-05	2174101014	EPA 365.3 (Phosphorus)	2
SS-09	2174101018	EPA 365.3 (Phosphorus)	10

II. METHODS

Samples were analyzed according to JEL's Standard Operating Procedures for following Method(s):

EPA 365.3 (Phosphorus), EPA 9045, SM 2540D, SM 2540G

III. Analysis

Sample analysis proceeded normally with the exception of following:

Exceptions:

Method: EPA 365.3 (Phosphorus)

Flag: J4|MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

Following Samples/Analytes were flagged:

- LabID: 227097; MS
  Analytes: Total Phosphorus
- LabID: 2174101001; SampleID: SS-10
  Analytes: Total Phosphorus

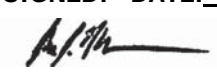
Flag: J4a| MS value exceeded control limits which could bias sample results high; however sample data is non-detect and was not impacted.

Following Samples/Analytes were flagged:

- LabID: 227098; MSD
  Analytes: Total Phosphorus

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Jupiter Environmental Laboratories, Inc., both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

SIGNED: DATE: 6/8/21



John Heyman for
Kacia Baldwin
V.P. of Operations

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 2174101

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174101001	SS-10	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101002	SS-11	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101003	SS-12	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101004	SS-13	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101005	SS-14	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101006	SS-15	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101007	SS-16	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101008	SS-17	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101009	SS-18	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101010	SS-01	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101011	SS-02	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101012	SS-03	EPA 365.3 (Phosphorus)	1

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Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 2174101

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174101012	SS-03	EPA 9045	1
		SM 2540G	1
2174101013	SS-04	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101014	SS-05	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101015	SS-06	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101016	SS-07	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101017	SS-08	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101018	SS-09	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174101019	SW-62	EPA 365.3 (Phosphorus)	1
		SM 2540D	1

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE SUMMARY

Workorder: 2174101

Project ID: Okeechobee

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2174101001	SS-10	Soil/Solid	5/26/2021 13:35	5/27/2021 14:40
2174101002	SS-11	Soil/Solid	5/26/2021 13:55	5/27/2021 14:40
2174101003	SS-12	Soil/Solid	5/26/2021 14:12	5/27/2021 14:40
2174101004	SS-13	Soil/Solid	5/26/2021 14:18	5/27/2021 14:40
2174101005	SS-14	Soil/Solid	5/26/2021 15:03	5/27/2021 14:40
2174101006	SS-15	Soil/Solid	5/26/2021 15:10	5/27/2021 14:40
2174101007	SS-16	Soil/Solid	5/26/2021 15:20	5/27/2021 14:40
2174101008	SS-17	Soil/Solid	5/26/2021 15:36	5/27/2021 14:40
2174101009	SS-18	Soil/Solid	5/26/2021 15:43	5/27/2021 14:40
2174101010	SS-01	Soil/Solid	5/26/2021 10:44	5/27/2021 14:40
2174101011	SS-02	Soil/Solid	5/26/2021 10:52	5/27/2021 14:40
2174101012	SS-03	Soil/Solid	5/26/2021 10:57	5/27/2021 14:40
2174101013	SS-04	Soil/Solid	5/26/2021 11:05	5/27/2021 14:40
2174101014	SS-05	Soil/Solid	5/26/2021 11:16	5/27/2021 14:40
2174101015	SS-06	Soil/Solid	5/26/2021 12:20	5/27/2021 14:40
2174101016	SS-07	Soil/Solid	5/26/2021 12:28	5/27/2021 14:40
2174101017	SS-08	Soil/Solid	5/26/2021 12:32	5/27/2021 14:40
2174101018	SS-09	Soil/Solid	5/26/2021 13:27	5/27/2021 14:40
2174101019	SW-62	Aqueous Liquid	5/26/2021 12:30	5/27/2021 14:40

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101001** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-10** Date Collected: 5/26/2021 13:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	3.9	mg/Kg	2.5	0.826	1	6/4/2021 11:45	DB	6/7/2021 17:32	DB	J4
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.33	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	99.4	%	0.1		1			5/28/2021 13:55	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101002** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-11** Date Collected: 5/26/2021 13:55

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	19	mg/Kg	6.6	2.21	2	6/4/2021 11:45	DB	6/7/2021 18:19	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.35	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.0	%	0.1		1			5/28/2021 13:53	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101003** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-12** Date Collected: 5/26/2021 14:12

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	250	mg/Kg	32	10.6	10	6/4/2021 11:45	DB	6/7/2021 18:00	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.62	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.0	%	0.1		1			5/28/2021 13:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101004** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-13** Date Collected: 5/26/2021 14:18

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	320	mg/Kg	33	11.0	10	6/4/2021 11:45	DB	6/7/2021 18:00	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	9.40	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.7	%	0.1		1			5/28/2021 13:53	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101005** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-14** Date Collected: 5/26/2021 15:03

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	15	mg/Kg	7.5	2.50	2	6/4/2021 11:45	DB	6/7/2021 18:19	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.91	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	82.8	%	0.1		1			5/28/2021 13:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101006** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-15** Date Collected: 5/26/2021 15:10

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	U	mg/Kg	10	3.36	2	6/4/2021 11:45	DB	6/7/2021 18:19	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.07	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	61.7	%	0.1		1			5/28/2021 13:53	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101007** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-16** Date Collected: 5/26/2021 15:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	U	mg/Kg	6.9	2.30	2	6/4/2021 11:45	DB	6/7/2021 18:25	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.16	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.4	%	0.1		1			5/28/2021 13:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101008** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-17** Date Collected: 5/26/2021 15:36

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	U	mg/Kg	6.6	2.20	2	6/4/2021 11:45	DB	6/7/2021 18:25	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.62	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.5	%	0.1		1			5/28/2021 13:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101009** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-18** Date Collected: 5/26/2021 15:43

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	7.5	mg/Kg	6.8	2.28	2	6/4/2021 11:45	DB	6/7/2021 18:25	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.77	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	99.3	%	0.1		1			5/28/2021 13:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101010** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-01** Date Collected: 5/26/2021 10:44

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	210	mg/Kg	29	9.72	10	6/4/2021 11:45	DB	6/7/2021 17:46	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.49	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.0	%	0.1		1			5/28/2021 13:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101011** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-02** Date Collected: 5/26/2021 10:52

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	U	mg/Kg	12	3.85	2	6/4/2021 11:45	DB	6/7/2021 18:25	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.13	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	56.2	%	0.1		1			5/28/2021 13:53	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101012** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-03** Date Collected: 5/26/2021 10:57

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	9.8	mg/Kg	5.7	1.91	2	6/4/2021 11:45	DB	6/7/2021 18:07	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.03	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	89.0	%	0.1		1			5/28/2021 13:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101013** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-04** Date Collected: 5/26/2021 11:05

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	8.9	mg/Kg	5.1	1.68	2	6/4/2021 11:45	DB	6/7/2021 18:11	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.09	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	97.5	%	0.1		1			5/28/2021 13:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101014** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-05** Date Collected: 5/26/2021 11:16

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	U	mg/Kg	7.7	2.58	2	6/4/2021 11:45	DB	6/7/2021 18:11	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	5.72	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	77.0	%	0.1		1			5/28/2021 13:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101015** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-06** Date Collected: 5/26/2021 12:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	6.6	mg/Kg	1.9	0.650	1	6/4/2021 11:45	DB	6/7/2021 17:27	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.70	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	99.0	%	0.1		1			5/28/2021 13:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101016** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-07** Date Collected: 5/26/2021 12:28

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	9.4	mg/Kg	3.1	1.03	1	6/4/2021 11:45	DB	6/7/2021 17:27	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.65	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	96.1	%	0.1		1			5/28/2021 13:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101017** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-08** Date Collected: 5/26/2021 12:32

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	16	mg/Kg	3.6	1.20	1	6/4/2021 11:45	DB	6/7/2021 17:32	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.91	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	79.0	%	0.1		1			5/28/2021 13:53	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101018** Date Received: 5/27/2021 14:40 Matrix: Soil/Solid
Sample ID: **SS-09** Date Collected: 5/26/2021 13:27

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	80	mg/Kg	20	6.68	10	6/4/2021 11:45	DB	6/7/2021 17:54	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.02	-log[H+]			1			6/1/2021 12:50	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.9	%	0.1		1			5/28/2021 13:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174101
Project ID: Okeechobee

Lab ID: **2174101019** Date Received: 5/27/2021 14:40 Matrix: Aqueous Liquid
Sample ID: **SW-62** Date Collected: 5/26/2021 12:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.36	mg/L	0.010	0.00500	1	6/1/2021 16:39	DB	6/2/2021 12:08	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	43	mg/L	16	4.00	1			5/29/2021 13:00	LI	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 2174101

Project ID: Okeechobee

PARAMETER QUALIFIERS

J4	MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

BATCH COMMENTS

WET	8495	Calibration Relative error was biased high at the low end of the curve, no sample results were affected.

PROJECT COMMENTS

2174101	A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "i" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.

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QUALITY CONTROL DATA

Workorder: 2174101

Project ID: Okeechobee

QC Batch: REF/6922 Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Associated Lab Samples: 2174078001 2174078002 2174088001 2174088002 2174101019 2174121001 2174121002

METHOD BLANK: 226666

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	U	4.0	

SAMPLE DUPLICATE: 226667 Original: 2174088002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	U	U	0	5	

SAMPLE DUPLICATE: 226668 Original: 2174078002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	U	U	0	5	

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QUALITY CONTROL DATA

Workorder: 2174101

Project ID: Okeechobee

QC Batch: WXX/7720 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Phosphorus Prep

Associated Lab Samples: 2174087021 2174087022 2174087023 2174087024 2174087025 2174087026 2174101019

METHOD BLANK: 226798

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/L	U	0.0050	

LABORATORY CONTROL SAMPLE & LCSD: 226799 226800

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.25	0.25	0.24	98.8	97.9	85-115	4.1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 226801 226802 Original: 2174087021

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.32	0.25	0.56	0.59	96.9	106	85-115	5.2	20	

SAMPLE DUPLICATE: 226803 Original: 2174087021

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.32	0.33	3.1	20	

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Fax: (561)575-4118

QUALITY CONTROL DATA

Workorder: 2174101

Project ID: Okeechobee

QC Batch: WXX/7726 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 2174101001 2174101002 2174101003 2174101004 2174101005 2174101006 2174101007 2174101008 2174101009 2174101010 2174101011 2174101012 2174101013 2174101014 2174101015 2174101016 2174101017 2174101018

METHOD BLANK: 227093

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/Kg	U	1.2	

LABORATORY CONTROL SAMPLE & LCSD: 227094 227095

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	19	15	16	82.6	83.3	80-120	6.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227097 227098 Original: 2174101001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	3.9	14	23	23	140	140	80-120	0	20	J4

SAMPLE DUPLICATE: 227096 Original: 2174101001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	3.9	3.9	0	20	

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
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Fax: (561)575-4118

QUALITY CONTROL DATA QUALIFIERS

Workorder: 2174101

Project ID: Okeechobee

QUALITY CONTROL PARAMETER QUALIFIERS

J4	MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174101

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174101001	**SS-10**	SM 2540G	WGR/5001		
2174101005	**SS-14**	SM 2540G	WGR/5002		
2174101008	**SS-17**	SM 2540G	WGR/5002		
2174101009	**SS-18**	SM 2540G	WGR/5002		
2174101012	**SS-03**	SM 2540G	WGR/5002		
2174101014	**SS-05**	SM 2540G	WGR/5002		
2174101018	**SS-09**	SM 2540G	WGR/5002		
2174101002	**SS-11**	SM 2540G	WGR/5003		
2174101004	**SS-13**	SM 2540G	WGR/5003		
2174101006	**SS-15**	SM 2540G	WGR/5003		
2174101011	**SS-02**	SM 2540G	WGR/5003		
2174101017	**SS-08**	SM 2540G	WGR/5003		
2174101003	**SS-12**	SM 2540G	WGR/5004		
2174101007	**SS-16**	SM 2540G	WGR/5004		
2174101010	**SS-01**	SM 2540G	WGR/5004		
2174101013	**SS-04**	SM 2540G	WGR/5004		
2174101015	**SS-06**	SM 2540G	WGR/5004		
2174101016	**SS-07**	SM 2540G	WGR/5004		
2174101019	**SW-62**	SM 2540D	REF/6922		
2174101001	**SS-10**	EPA 9045	WPH/2344		
2174101002	**SS-11**	EPA 9045	WPH/2344		
2174101003	**SS-12**	EPA 9045	WPH/2344		
2174101004	**SS-13**	EPA 9045	WPH/2344		
2174101005	**SS-14**	EPA 9045	WPH/2344		
2174101006	**SS-15**	EPA 9045	WPH/2344		

Jupiter Environmental Laboratories, Inc.
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Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174101

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174101007	**SS-16**	EPA 9045	WPH/2344		
2174101008	**SS-17**	EPA 9045	WPH/2344		
2174101009	**SS-18**	EPA 9045	WPH/2344		
2174101010	**SS-01**	EPA 9045	WPH/2344		
2174101011	**SS-02**	EPA 9045	WPH/2344		
2174101012	**SS-03**	EPA 9045	WPH/2344		
2174101013	**SS-04**	EPA 9045	WPH/2344		
2174101014	**SS-05**	EPA 9045	WPH/2344		
2174101015	**SS-06**	EPA 9045	WPH/2344		
2174101016	**SS-07**	EPA 9045	WPH/2344		
2174101017	**SS-08**	EPA 9045	WPH/2344		
2174101018	**SS-09**	EPA 9045	WPH/2344		
2174101019	**SW-62**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174101001	**SS-10**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101002	**SS-11**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101003	**SS-12**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101004	**SS-13**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101005	**SS-14**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101006	**SS-15**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101007	**SS-16**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101008	**SS-17**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101009	**SS-18**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101010	**SS-01**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101011	**SS-02**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101012	**SS-03**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174101

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174101013	**SS-04**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101014	**SS-05**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101015	**SS-06**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101016	**SS-07**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101017	**SS-08**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174101018	**SS-09**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/7/2021
Work Order # 21E1091
Project: 2174101

Lab ID: 21E1091
Matrix: Solid
Received Date: 05/28/21 16:23
Collected By: Client

Analysis: % Solids

Laboratory Analysis Report

Wet Chemistry

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
2174101001	05/26/21 13:35	99.8		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101002	05/26/21 13:55	98.9		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101003	05/26/21 14:12	98.4		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101004	05/26/21 14:18	99.4		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101005	05/26/21 15:03	82.7		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101006	05/26/21 00:00	67.8		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101007	05/26/21 15:20	99.0		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101008	05/26/21 15:36	99.1		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101009	05/26/21 18:43	99.6		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101010	05/26/21 10:44	98.4		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101011	05/26/21 10:52	65.9		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101012	05/26/21 10:57	91.9		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101013	05/26/21 11:05	97.8		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101014	05/26/21 11:16	80.3		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101015	05/26/21 12:20	99.7		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101016	05/26/21 00:00	97.4		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101017	05/26/21 12:32	85.2		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO
2174101018	05/26/21 13:27	99.3		% by Weight	1	0.100	0.300	SM2540G	06/01 13:58	06/01 13:58	MWO

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/7/2021
Work Order # 21E1091
Project: 2174101

Lab ID: 21E1091
Matrix: Solid

Received Date: 05/28/21 16:23
Collected By: Client

Analysis: Total Nitrogen

Laboratory Analysis Report

Wet Chemistry

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
2174101001	05/26/21 13:35	120		mg/kg dry	1	0.208	14.4	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101002	05/26/21 13:55	1980		mg/kg dry	1	0.210	14.6	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101003	05/26/21 14:12	3230		mg/kg dry	1	0.211	14.6	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101004	05/26/21 14:18	1290		mg/kg dry	1	0.209	14.5	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101005	05/26/21 15:03	253		mg/kg dry	1	0.252	17.4	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101006	05/26/21 00:00	2520		mg/kg dry	1	0.307	21.2	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101007	05/26/21 15:20	449		mg/kg dry	1	0.210	14.6	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101008	05/26/21 15:36	232		mg/kg dry	1	0.210	14.5	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101009	05/26/21 18:43	287		mg/kg dry	1	0.209	14.5	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101010	05/26/21 10:44	1500		mg/kg dry	1	0.211	14.6	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101011	05/26/21 10:52	6440		mg/kg dry	1	0.316	21.9	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101012	05/26/21 10:57	4110		mg/kg dry	1	0.226	15.7	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101013	05/26/21 11:05	384		mg/kg dry	1	0.213	14.7	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101014	05/26/21 11:16	4710		mg/kg dry	1	0.259	17.9	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101015	05/26/21 12:20	86.3		mg/kg dry	1	0.209	14.4	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101016	05/26/21 00:00	127		mg/kg dry	1	0.214	14.8	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101017	05/26/21 12:32	66.1		mg/kg dry	1	0.244	16.9	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101018	05/26/21 13:27	367		mg/kg dry	1	0.209	14.5	TKN + NOX	06/04 12:10	06/04 12:10	SA
2174101019	05/26/21 12:30	3.57		mg/L	1	0.00250	0.552	TKN + NOX	06/05 17:00	06/05 17:00	OC

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/7/2021
Work Order # 21E1091
Project: 2174101

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
Unless indicated, soil results are reported on actual (wet) weight basis.
Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Maria Castellanos - Lab Manager

Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services,Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Jupiter

Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

21E1091

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 2

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174101
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030	P.O. NO.:
	QUOTE NO.:
	LAB USE ONLY:

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS

2.0 GUN 1

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: total Nitrogen
01	2174101001		05/26/21	1335	s		x
02	2174101002		05/26/21	1355	s		x
03	2174101003		05/26/21	1412	s		x
04	2174101004		05/26/21	1418	s		x
05	2174101005		05/26/21	1503	s		x
06	2174101006		05/26/21	0:00	s		x
07	2174101007		05/26/21	1520	s		x
08	2174101008		05/26/21	1536	s		x
09	2174101009		05/26/21	1843	s		x
10	2174101010		05/26/21	1044	s		x

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1924
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1623
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

2E1091

DATE:
PAGE: 2 OF 2

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174101
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS
GUN 1 2.0 ice

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: total Nitrogen
11	2174101011		05/26/21	1052	s	1	x
12	2174101012		05/26/21	1057	s		x
13	2174101013		05/26/21	1105	s		x
14	2174101014		05/26/21	1116	s		x
15	2174101015		05/26/21	1220	s		x
16	2174101016		05/26/21	0:00	s		x
17	2174101017		05/26/21	1232	s		x
18	2174101018		05/26/21	1327	s	↓	x
19	2174101019		↓	1230	W	↓	x

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/28/21	Time: 1423
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/27/21	Time: 1623
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 274101
P.O. # _____
Quote # _____

Company Name: Black + Veatch
Address: 3405 W. Dr. MLK Jr Blvd Suite 125
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon M. Dinges Email: DingesJM@BV.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Tot. phosphorus, pH	Tot. Nitrogen	Field Filtered (Y/N)	Comments
1	SS-10	5/20/21	1335	S	2		X	X		
2	SS-11	5/20/21	1355	S	2		X	X		
3	SS-12	5/20/21	1412	S	2		X	X		
4	SS-13	5/20/21	1418	S	2		X	X		
5	SS-14	5/20/21	1503	S	2		X	X		
6	SS-15	5/20/21	1510	S	2		X	X		
7	SS-16	5/20/21	1520	S	2		X	X		
8	SS-17	5/20/21	1536	S	2		X	X		
9	SS-18	5/20/21	1543	S	2		X	X		
0		5/20/21								

LAB ANALYSIS

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

Matrix Codes*
S Soil/Solid Sediment; GW Ground Water; WW Waste Water; DW Drinking Water; SW Surface Water; SL Sludge; O Other (Please Specify)

Pres Codes
A- none; B- HNO_3; C- H_2SO_4; D- NaOH; E- HCl; I- Ice; O- Other; M- MeOH; N- $Na_2S_2O_3$; Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/27/21	0800		5/27/21	10:25
	5/27/21	14:40		5/27/21	1440

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 3.2 °C

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 207410
P.O. # _____
Quote # _____

Company Name: Black & Veatch
Address: 3405 W. Dr. MLK Jr Blvd Suite 125
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon M. Dinges Email: DingesJM@BV.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Tot. phosphorus, PTH	Tot. Nitrogen	Tot. Phosphorus	Tot. TSS	Field Filtered (Y/N)	Comments
1	SS-01	5/26/21	1044	S	2		X	X				
2	SS-02	5/26/21	1052	S	2		X	X				
3	SS-03	5/26/21	1057	S	2		X	X				
4	SS-04	5/26/21	1105	S	2		X	X				
5	SS-05	5/26/21	1116	S	2		X	X				
6	SS-06	5/26/21	1220	S	2		X	X				
7	SS-07	5/26/21	1228	S	2		X	X				
8	SS-08	5/26/21	1232	S	2		X	X				
9	SS-09	5/26/21	1327	S	2		X	X				
0	SW-02	5/26/21	1230	SW	3			X	X	X		

LAB ANALYSIS

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

Matrix Codes*
S Soil/Solid Sediment; GW Ground Water; WW Waste Water; DW Drinking Water; SW Surface Water; SL Sludge; O Other (Please Specify)

Pres Codes
A- none; B- HNO_3; C- H_2SO_4; D- NaOH; E- HCl; I- Ice; O- Other; M- MeOH; N- $Na_2S_2O_3$; Z- $ZnAc$

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/27/21	0800		5/27/21	10:25
	5/27/21	14:40		5/27/21	1448

QA/QC level with report
None ___ 1 ___ 2 ___ 3 ___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 3.2 °C

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs
ADDRESS: 150 S. Old Dixie Hwy
CITY: Jupiter, Fl, 33458
TEL: 561-575-0030 -

CLIENT PROJECT NAME / NUMBER: 2174101
PROJECT CONTACT: Rebecca Lourido
SAMPLER(S): (SIGNATURE)

P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: total Nitrogen
	2174101001		05/26/21	1335	S		x
	2174101002		05/26/21	1355	S		x
	2174101003		05/26/21	1412	S		x
	2174101004		05/26/21	1418	S		x
	2174101005		05/26/21	1503	S		x
	2174101006		05/26/21	0:00	S		x
	2174101007		05/26/21	1520	S		x
	2174101008		05/26/21	1536	S		x
	2174101009		05/26/21	1843	S		x
	2174101010		05/26/21	1044	S		x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs
ADDRESS: 150 S. Old Dixie Hwy
CITY: Jupiter, Fl, 33458
TEL: 561-575-0030 -

CLIENT PROJECT NAME / NUMBER: 2174101
PROJECT CONTACT: Rebecca Lourido
SAMPLER(S): (SIGNATURE)

P.O. NO.:
QUOTE NO.:
LAB USE ONLY:

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: total Nitrogen
	2174101011		05/26/21	1052	S		x
	2174101012		05/26/21	1057	S		x
	2174101013		05/26/21	1105	S		x
	2174101014		05/26/21	1116	S		x
	2174101015		05/26/21	1220	S		x
	2174101016		05/26/21	0:00	S		x
	2174101017		05/26/21	1232	S		x
	2174101018		05/26/21	1327	S		x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	2174101	**Profile:**	3905
Client:	Black&Veatch	**Project:**	Jon Dinges
Level:	1	**Date Rec'd:**	5/27/2021 3:11:00 PM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Security Tape Present	Security Tape Intact	Method of Receipt	Comments
	3.2	19	☐	☐		

Checked By: LI

Sample Verification

Loose Caps?	No	**All Samples on COC accounted For?**	Yes
Broken Containers?	No	**All Samples on COC?**	Yes
pH Verified?	Yes	**Written on Internal COC?**	No
pH Strip Lot #	HC022887	**Sample Vol. Suff. For Analysis?**	Yes
Acid Preserved Samples Lot #	17910	**Samples Rec'd W/I Hold Time?**	Yes
Base Preserved Samples Lot #		**Are All Samples to be Analyzed?**	Yes
Samples Received From	courier	**Correct Sample Containers?**	Yes
Soil Origin (Domestic/Foreign	Domestic	**COC Comments written on COC?**	No
Site Location/Project on COC?	Yes	**Samplers Initials on COC?**	Yes
Client Project # on COC?	Yes	**Sample Date/Time Indicated?**	Yes
Project Mgr. Indicated on COC	Yes	**TAT Requested:**	STD
COC relinquished/Dated by Client?	Yes	**Client Requests Verbal Results?**	No
COC Received/Dated by JEL	Yes	**Client Notified of discrepancies?**	No
JEL to Conduct ALL Analyses?	No	**Do VOC vials have headspace or a bubble <6mm (1/4")?**	N/A
Number of Encores		**Number of Lab Filtered Metals**	

Subcontract Analysis

Parameter	Via	Lab Name	Comments
total nitrogen	Other	Spectrum Analytical, Inc.	

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clientservices@jupiterlabs.com

June 11, 2021

Jon Dinges
Black & Veatch Corporation
3405 W. Dr. Martin Luther King
Suite 125
Tampa, FL 33607

RE: LOG# 2174123
Project ID: Okeechobee
COC# 2174123

Dear Jon Dinges:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, May 28, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

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

Sincerely,

John Heyman
jheyman@jupiterlabs.com

CASE NARRATIVE

Jupiter Environmental Laboratories Inc. Lab Reference No./SDG: 2174123

Client: Black&Veatch

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

The following samples were diluted:

ClientID	LabID	Method	Dilution
SS-19	2174123001	EPA 365.3 (Phosphorus)	2
SS-20	2174123002	EPA 365.3 (Phosphorus)	2
SS-21	2174123003	EPA 365.3 (Phosphorus)	10
SS-22	2174123004	EPA 365.3 (Phosphorus)	10
SS-23	2174123005	EPA 365.3 (Phosphorus)	10
SS-24	2174123006	EPA 365.3 (Phosphorus)	10
SS-25	2174123007	EPA 365.3 (Phosphorus)	10
SS-26	2174123008	EPA 365.3 (Phosphorus)	20
SS-27	2174123009	EPA 365.3 (Phosphorus)	20
SS-28	2174123010	EPA 365.3 (Phosphorus)	10
SS-30	2174123012	EPA 365.3 (Phosphorus)	50
WS-65	2174123016	EPA 365.3 (Phosphorus)	20
WS-66	2174123017	EPA 365.3 (Phosphorus)	10

II. METHODS

Samples were analyzed according to JEL's Standard Operating Procedures for following Method(s):

EPA 365.3 (Phosphorus), EPA 9045, SM 2540D, SM 2540G

III. Analysis

Sample analysis proceeded normally with the exception of following:

Exceptions:

Method: EPA 365.3 (Phosphorus)

Flag: J4|MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

Following Samples/Analytes were flagged:

- LabID: 227097; MS
  Analytes: Total Phosphorus
- LabID: 227368; MS
  Analytes: Total Phosphorus
- LabID: 2174123003; SampleID: SS-21
  Analytes: Total Phosphorus

Flag: J4a| MS value exceeded control limits which could bias sample results high; however sample data is non-detect and was not impacted.

Following Samples/Analytes were flagged:

- LabID: 227098; MSD
  Analytes: Total Phosphorus
- LabID: 227369; MSD
  Analytes: Total Phosphorus

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Jupiter Environmental Laboratories, Inc., both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

SIGNED: DATE: 6/11/21

Digitally Sign

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 2174123

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174123001	SS-19	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123002	SS-20	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123003	SS-21	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123004	SS-22	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123005	SS-23	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123006	SS-24	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123007	SS-25	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123008	SS-26	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123009	SS-27	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123010	SS-28	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123011	SS-29	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174123012	SS-30	EPA 365.3 (Phosphorus)	1

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SAMPLE ANALYTE COUNT

Workorder: 2174123

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174123012	SS-30	EPA 9045	1
		SM 2540G	1
2174123014	WS-63	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174123015	WS-64	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174123016	WS-65	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174123017	WS-66	EPA 365.3 (Phosphorus)	1
		SM 2540D	1

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SAMPLE SUMMARY

Workorder: 2174123

Project ID: Okeechobee

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2174123001	SS-19	Soil/Solid	5/27/2021 10:12	5/28/2021 13:35
2174123002	SS-20	Soil/Solid	5/27/2021 10:15	5/28/2021 13:35
2174123003	SS-21	Soil/Solid	5/27/2021 10:23	5/28/2021 13:35
2174123004	SS-22	Soil/Solid	5/27/2021 10:49	5/28/2021 13:35
2174123005	SS-23	Soil/Solid	5/27/2021 10:53	5/28/2021 13:35
2174123006	SS-24	Soil/Solid	5/27/2021 10:57	5/28/2021 13:35
2174123007	SS-25	Soil/Solid	5/27/2021 11:25	5/28/2021 13:35
2174123008	SS-26	Soil/Solid	5/27/2021 11:30	5/28/2021 13:35
2174123009	SS-27	Soil/Solid	5/27/2021 11:35	5/28/2021 13:35
2174123010	SS-28	Soil/Solid	5/27/2021 13:25	5/28/2021 13:35
2174123011	SS-29	Soil/Solid	5/27/2021 13:35	5/28/2021 13:35
2174123012	SS-30	Soil/Solid	5/27/2021 15:08	5/28/2021 13:35
2174123013	SS-31	Soil/Solid	5/27/2021 15:20	5/28/2021 13:35
2174123014	WS-63	Aqueous Liquid	5/27/2021 12:05	5/28/2021 13:35
2174123015	WS-64	Aqueous Liquid	5/27/2021 14:00	5/28/2021 13:35
2174123016	WS-65	Aqueous Liquid	5/27/2021 15:54	5/28/2021 13:35
2174123017	WS-66	Aqueous Liquid	5/27/2021 16:34	5/28/2021 13:35

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ANALYTICAL RESULTS

Workorder: 2174123

Project ID: Okeechobee

Lab ID: **2174123001** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid

Sample ID: **SS-19** Date Collected: 5/27/2021 10:12

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	29	mg/Kg	6.6	2.20	2	6/4/2021 11:45	DB	6/7/2021 18:13	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	4.55	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.5	%	0.1		1			5/28/2021 16:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123002** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid
Sample ID: **SS-20** Date Collected: 5/27/2021 10:15

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	29	mg/Kg	6.9	2.29	2	6/4/2021 11:45	DB	6/7/2021 18:20	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	4.28	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	99.0	%	0.1		1			5/28/2021 16:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123003** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid
Sample ID: **SS-21** Date Collected: 5/27/2021 10:23

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	81	mg/Kg	33	11.0	10	6/8/2021 15:16	DB	6/8/2021 17:17	DB	J4
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	5.56	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.5	%	0.1		1			5/28/2021 16:54	AD	

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ANALYTICAL RESULTS

Workorder: 2174123

Project ID: Okeechobee

Lab ID: **2174123004** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid

Sample ID: **SS-22** Date Collected: 5/27/2021 10:49

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	63	mg/Kg	32	10.7	10	6/8/2021 15:16	DB	6/8/2021 17:17	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	5.51	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	74.4	%	0.1		1			5/28/2021 16:54	AD	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123005** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid
Sample ID: **SS-23** Date Collected: 5/27/2021 10:53

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	240	mg/Kg	27	8.93	10	6/8/2021 15:16	DB	6/8/2021 17:17	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.41	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.8	%	0.1		1			5/28/2021 16:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123006** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid
Sample ID: **SS-24** Date Collected: 5/27/2021 10:57

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	66	mg/Kg	41	13.8	10	6/8/2021 15:16	DB	6/8/2021 17:19	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.96	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	71.9	%	0.1		1			5/28/2021 16:54	AD	

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ANALYTICAL RESULTS

Workorder: 2174123

Project ID: Okeechobee

Lab ID: **2174123007** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid

Sample ID: **SS-25** Date Collected: 5/27/2021 11:25

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	220	mg/Kg	40	13.3	10	6/8/2021 15:16	DB	6/8/2021 17:24	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.33	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	74.4	%	0.1		1			5/28/2021 16:54	AD	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123008** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid
Sample ID: **SS-26** Date Collected: 5/27/2021 11:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	340	mg/Kg	57	19.1	20	6/8/2021 15:16	DB	6/8/2021 17:46	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.79	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	75.7	%	0.1		1			5/28/2021 16:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123009** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid
Sample ID: **SS-27** Date Collected: 5/27/2021 11:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	970	mg/Kg	130	41.7	20	6/8/2021 15:16	DB	6/8/2021 17:46	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.92	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	47.5	%	0.1		1			5/28/2021 16:54	AD	

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ANALYTICAL RESULTS

Workorder: 2174123

Project ID: Okeechobee

Lab ID: **2174123010** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid

Sample ID: **SS-28** Date Collected: 5/27/2021 13:25

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	77	mg/Kg	34	11.5	10	6/8/2021 15:16	DB	6/8/2021 17:24	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.69	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	76.7	%	0.1		1			5/28/2021 16:57	AD	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123011** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid
Sample ID: **SS-29** Date Collected: 5/27/2021 13:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	38	mg/Kg	4.0	1.32	1	6/8/2021 15:16	DB	6/8/2021 17:03	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.73	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	78.5	%	0.1		1			5/28/2021 16:54	AD	

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Fax: (561)575-4118

ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123012** Date Received: 5/28/2021 13:35 Matrix: Soil/Solid
Sample ID: **SS-30** Date Collected: 5/27/2021 15:08

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	1300	mg/Kg	220	71.9	50	6/8/2021 15:16	DB	6/8/2021 17:51	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.23	-log[H+]			1			6/1/2021 13:30	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	59.1	%	0.1		1			5/28/2021 16:51	AD	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123014** Date Received: 5/28/2021 13:35 Matrix: Aqueous Liquid
Sample ID: **WS-63** Date Collected: 5/27/2021 12:05

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.057	mg/L	0.010	0.00500	1	6/1/2021 16:39	DB	6/2/2021 12:08	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	8.4i	mg/L	16	4.00	1			5/29/2021 13:00	LI	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123015** Date Received: 5/28/2021 13:35 Matrix: Aqueous Liquid
Sample ID: **WS-64** Date Collected: 5/27/2021 14:00

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.062	mg/L	0.010	0.00500	1	6/1/2021 16:39	DB	6/2/2021 12:08	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	11i	mg/L	16	4.00	1			5/29/2021 13:00	LI	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123016** Date Received: 5/28/2021 13:35 Matrix: Aqueous Liquid
Sample ID: **WS-65** Date Collected: 5/27/2021 15:54

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	7.8	mg/L	0.20	0.100	20	6/1/2021 16:39	DB	6/2/2021 13:36	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	5.6i	mg/L	16	4.00	1			5/29/2021 13:00	LI	

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ANALYTICAL RESULTS

Workorder: 2174123
Project ID: Okeechobee

Lab ID: **2174123017** Date Received: 5/28/2021 13:35 Matrix: Aqueous Liquid
Sample ID: **WS-66** Date Collected: 5/27/2021 16:34

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	2.8	mg/L	0.10	0.0500	10	6/1/2021 16:39	DB	6/2/2021 13:32	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	8.0i	mg/L	16	4.00	1			5/29/2021 13:00	LI	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 2174123

Project ID: Okeechobee

PARAMETER QUALIFIERS

J4	MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

BATCH COMMENTS

WET	8495	Calibration Relative error was biased high at the low end of the curve, no sample results were affected.

PROJECT COMMENTS

2174123	A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "i" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.

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QUALITY CONTROL DATA

Workorder: 2174123

Project ID: Okeechobee

QC Batch: REF/6922 Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Associated Lab Samples: 2174078001 2174078002 2174088001 2174088002 2174101019 2174121001 2174121002 2174123014 2174123015 2174123016 2174123017

METHOD BLANK: 226666

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	U	4.0	

SAMPLE DUPLICATE: 226667 Original: 2174088002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	U	U	0	5	

SAMPLE DUPLICATE: 226668 Original: 2174078002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	U	U	0	5	

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QUALITY CONTROL DATA

Workorder: 2174123

Project ID: Okeechobee

QC Batch: WXX/7720 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Phosphorus Prep

Associated Lab Samples: 2174087021, 2174087022, 2174087023, 2174087024, 2174087025, 2174087026, 2174101019, 2174123014, 2174123015, 2174123016, 2174123017

METHOD BLANK: 226798

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/L	U	0.0050	

LABORATORY CONTROL SAMPLE & LCSD: 226799 226800

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.25	0.25	0.24	98.8	97.9	85-115	4.1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 226801 226802 Original: 2174087021

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.32	0.25	0.56	0.59	96.9	106	85-115	5.2	20	

SAMPLE DUPLICATE: 226803 Original: 2174087021

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.32	0.33	3.1	20	

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QUALITY CONTROL DATA

Workorder: 2174123

Project ID: Okeechobee

QC Batch: WXX/7726 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 2174101001, 2174101002, 2174101003, 2174101004, 2174101005, 2174101006, 2174101007, 2174101008, 2174101009, 2174101010, 2174101011, 2174101012, 2174101013, 2174101014, 2174101015, 2174101016, 2174101017, 2174101018, 2174123001, 2174123002

METHOD BLANK: 227093

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/Kg	U	1.2	

LABORATORY CONTROL SAMPLE & LCSD: 227094 227095

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	19	15	16	82.6	83.3	80-120	6.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227097 227098 Original: 2174101001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	3.9	14	23	23	140	140	80-120	0	20	J4

SAMPLE DUPLICATE: 227096 Original: 2174101001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	3.9	3.9	0	20	

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QUALITY CONTROL DATA

Workorder: 2174123

Project ID: Okeechobee

QC Batch: WXX/7730 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 2174123003, 2174123004, 2174123005, 2174123006, 2174123007, 2174123008, 2174123009, 2174123010, 2174123011, 2174123012, 2174166001, 2174166002, 2174166003, 2174166004, 2174166005, 2174166006, 2174166007, 2174166008, 2174166009, 2174166010

METHOD BLANK: 227364

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/Kg	U	1.2	

LABORATORY CONTROL SAMPLE & LCSD: 227365 227366

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	19	19	19	99.9	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227368 227369 Original: 2174123003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	80	19	110		181	182	80-120	0	20	J4

SAMPLE DUPLICATE: 227367 Original: 2174123003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	80	82	1.2	20	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 2174123

Project ID: Okeechobee

QUALITY CONTROL PARAMETER QUALIFIERS

J4	MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174123

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174123005	**SS-23**	SM 2540G	WGR/5002		
2174123008	**SS-26**	SM 2540G	WGR/5002		
2174123012	**SS-30**	SM 2540G	WGR/5002		
2174123003	**SS-21**	SM 2540G	WGR/5003		
2174123004	**SS-22**	SM 2540G	WGR/5003		
2174123006	**SS-24**	SM 2540G	WGR/5003		
2174123007	**SS-25**	SM 2540G	WGR/5003		
2174123009	**SS-27**	SM 2540G	WGR/5003		
2174123011	**SS-29**	SM 2540G	WGR/5003		
2174123001	**SS-19**	SM 2540G	WGR/5004		
2174123002	**SS-20**	SM 2540G	WGR/5004		
2174123010	**SS-28**	SM 2540G	WGR/5004		
2174123014	**WS-63**	SM 2540D	REF/6922		
2174123015	**WS-64**	SM 2540D	REF/6922		
2174123016	**WS-65**	SM 2540D	REF/6922		
2174123017	**WS-66**	SM 2540D	REF/6922		
2174123001	**SS-19**	EPA 9045	WPH/2345		
2174123002	**SS-20**	EPA 9045	WPH/2345		
2174123003	**SS-21**	EPA 9045	WPH/2345		
2174123004	**SS-22**	EPA 9045	WPH/2345		
2174123005	**SS-23**	EPA 9045	WPH/2345		
2174123006	**SS-24**	EPA 9045	WPH/2345		
2174123007	**SS-25**	EPA 9045	WPH/2345		
2174123008	**SS-26**	EPA 9045	WPH/2345		
2174123009	**SS-27**	EPA 9045	WPH/2345		
2174123010	**SS-28**	EPA 9045	WPH/2345		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174123

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174123011	**SS-29**	EPA 9045	WPH/2345		
2174123012	**SS-30**	EPA 9045	WPH/2345		
2174123014	**WS-63**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174123015	**WS-64**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174123016	**WS-65**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174123017	**WS-66**	Phosphorus Prep	WXX/7720	EPA 365.3 (Phosphorus)	WET/8478
2174123001	**SS-19**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174123002	**SS-20**	Wet Chem Prep	WXX/7726	EPA 365.3 (Phosphorus)	WET/8495
2174123003	**SS-21**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123004	**SS-22**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123005	**SS-23**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123006	**SS-24**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123007	**SS-25**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123008	**SS-26**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123009	**SS-27**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123010	**SS-28**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123011	**SS-29**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174123012	**SS-30**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/11/2021
Work Order # 21F0058
Project: 2174123

Lab ID: 21F0058
Matrix: Solid

Received Date: 06/01/21 16:27
Collected By: Client

Analysis: % Solids

Laboratory Analysis Report

Wet Chemistry

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
2174123001	05/27/21 10:12	99.1		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123002	05/27/21 10:15	98.6		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123003	05/27/21 10:23	99.2		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123004	05/27/21 10:49	99.6		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123005	05/27/21 10:53	98.9		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123006	05/27/21 10:57	99.4		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123007	05/27/21 11:25	75.6		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123008	05/27/21 11:30	79.6		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123009	05/27/21 11:35	64.7		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123010	05/27/21 13:25	79.0		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123011	05/27/21 13:35	80.0		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO
2174123012	05/27/21 15:08	46.8		% by Weight	1	0.100	0.300	SM2540G	06/03 10:13	06/03 10:13	MWO

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/11/2021
Work Order # 21F0058
Project: 2174123

Lab ID: 21F0058
Matrix: Solid

Received Date: 06/01/21 16:27
Collected By: Client

Analysis: Total Nitrogen

Laboratory Analysis Report

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry											
2174123001	05/27/21 10:12	282		mg/kg dry	1	0.210	14.5	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123002	05/27/21 10:15	244		mg/kg dry	1	0.211	14.6	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123003	05/27/21 10:23	1140		mg/kg dry	1	0.210	14.5	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123004	05/27/21 10:49	41.8		mg/kg dry	1	0.209	14.5	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123005	05/27/21 10:53	1410		mg/kg dry	1	0.210	14.6	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123006	05/27/21 10:57	267		mg/kg dry	1	0.209	14.5	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123007	05/27/21 11:25	486		mg/kg dry	1	0.275	19.1	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123008	05/27/21 11:30	690		mg/kg dry	1	0.261	18.1	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123009	05/27/21 11:35	1590		mg/kg dry	1	0.322	22.3	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123010	05/27/21 13:25	503		mg/kg dry	1	0.263	18.2	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123011	05/27/21 13:35	345		mg/kg dry	1	0.260	18.0	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123012	05/27/21 15:08	3890		mg/kg dry	1	0.444	30.8	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174123014	05/27/21 12:05	0.855		mg/L	1	0.00250	0.552	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123015	05/27/21 14:00	0.627		mg/L	1	0.00250	0.552	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123016	05/27/21 15:54	27.7		mg/L	1	0.00250	0.552	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174123017	05/27/21 16:34	7.38		mg/L	1	0.00250	0.552	TKN + NOX	06/10 08:25	06/10 08:25	SA

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/11/2021
Work Order # 21F0058
Project: 2174123

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
Unless indicated, soil results are reported on actual (wet) weight basis.
Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Angel Barreto - CSM

Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services,Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

CHAIN OF CUSTODY RECORD

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

DATE:
PAGE: 1 OF 2

21F0058

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174123
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total Nitrogen
01	2174123001	SA	05/27/21	1012	S	1		x
02	2174123002		05/27/21	1015	S			x
03	2174123003		05/27/21	1023	S			x
04	2174123004		05/27/21	1049	S			x
05	2174123005		05/27/21	1053	S			x
06	2174123006	1057	05/27/21	######	S			x
07	2174123007		05/27/21	1125	S			x
08	2174123008		05/27/21	1130	S			x
09	2174123009		05/27/21	1135	S			x
10	2174123010		05/27/21	1325	S			x

Relinquished by: (Signature)	Received by: (Signature)	Date: 6/1/21	Time: 1241
Relinquished by: (Signature)	Received by: (Signature)	Date: 6/1/21	Time: 1627
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

1:2
1 ice
GUN-1

CHAIN OF CUSTODY RECORD

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

21F0058

Spectrum

DATE:
PAGE: 2 OF 2

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174123
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: Total Nitrogen
11	2174123011	S2	05/27/21	1335	S	1	x
12	2174123012	4	05/27/21	1508	S	1	x
~~TW~~	~~2174123013~~		~~05/27/21~~	~~1520~~	~~S~~	~~1~~	~~x~~
13	2174123014	T5	05/27/21	1205	SW	1	x
14	2174123015		05/27/21	1400	SW	1	x
15	2174123016	1554	05/27/21	######	SW	1	x
16	2174123017		05/27/21	1634	SW	1	x

Relinquished by: (Signature)	Received by: (Signature)	Date: 6/1/21	Time: 1241
Relinquished by: (Signature)	Received by: (Signature)	Date: 6/1/21	Time: 1627
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sampling times taken for -06 & -15 taken from the containers BM.

1.2
1.2

GUN-1

Page 5 of 5

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 219423
P.O. # _____
Quote # _____

Company Name: Black & Veatch
Address: 3405 W Dr. MLK Jr Blvd. Suite 125
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon M. Dinges Email: DingesJM@BV.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson

LAB ANALYSIS

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Parameters: Tot. phosphorus, ph	Tot. Nitrogen	Tot. phosphorus TJS	Field Filtered (Y/N)	Comments
1	SS-19	5/27/21	1012	S	2		X	X			
2	SS-20		1015	S	2		X	X			
3	SS-21		1023	S	2		X	X			
4	SS-22		1049	S	2		X	X			
5	SS-23		1053	S	2		X	X			
6	SS-24		1057	S	2		X	X			
7	SS-25		1125	S	2		X	X			
8	SS-26		1130	S	2		X	X			
9	SS-27		1135	S	2		X	X			
10	SS-28		1325	S	2		X	X			

Matrix Codes*
S Soil/Solid Sediment; GW Ground Water; WW Waste Water; DW Drinking Water; SW Surface Water; SL Sludge; O Other (Please Specify)

Pres Codes
A- none; B- HNO_3; C- H_2SO_4; D- NaOH; E- HCl; I- Ice; O- Other; M- MeOH; N- $Na_2S_2O_3$; Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/28/21	0800		5/28/21	12:00
	5/28/21	13:35		5/28/21	1335

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 2.9 °C

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J.E.L. Log # 2174123
P.O. # _____
Quote # _____

Company Name: Blaen & Veaten
Address: 3405 W Dr. MLK Jr Blvd. Suite 125
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon Dinges Email: DingesJ@BV.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
___ Standard
___ Expedited
Due ___/___/___

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Parameters: Tot. phosph., pH	Tot. Nitrogen	Tot. phosphorus	TSS.	Field Filtered (Y/N)	Comments
1	SS-29	5/27/21	1335	S	2		X	X				
2	SS-30		1508	S	2		X	X				
3	SS-31		1520	S	2		X	X				
4	WS-03		~~1554~~ 1205	SW	3			X	X	X		
5	WS-04		1400	SW	3			X	X	X		
6	WS-05		1554	SW	3			X	X	X		
7	WS-06		1634	SW	3			X	X	X		
8												
9												
10												

Matrix Codes*
S Soil/Solid Sediment; GW Ground Water; WW Waste Water; DW Drinking Water; SW Surface Water; SL Sludge; O Other (Please Specify)

Pres Codes
A- none; B- HNO_3; C- H_2SO_4; D- NaOH; E- HCl; I- Ice; O- Other; M- MeOH; N- $Na_2S_2O_3$; Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
Chelsea Dickenson	5/28/21	0800		5/28/21	12:00
	5/28/21	1335		5/28/21	1335

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 2.9 °C

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174123
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030 -	P.O. NO.:
	QUOTE NO.:
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ____ / ____ / ____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total Nitrogen																		
	2174123001		05/27/21	1012	S	1		x																		
	2174123002		05/27/21	1015	S			x																		
	2174123003		05/27/21	1023	S			x																		
	2174123004		05/27/21	1049	S			x																		
	2174123005		05/27/21	1053	S			x																		
	2174123006		05/27/21	######	S			x																		
	2174123007		05/27/21	1125	S			x																		
	2174123008		05/27/21	1130	S			x																		
	2174123009		05/27/21	1135	S			x																		
	2174123010		05/27/21	1325	S			x																		

Relinquished by: (Signature)		Received by: (Signature)	Date: / Time:
Relinquished by: (Signature)		Received by: (Signature)	Date: / Time:
Relinquished by: (Signature)		Received by: (Signature)	Date: / Time:

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

DATE:

PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174123
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030 -	P.O. NO.:
	QUOTE NO.:
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total Nitrogen
	2174123011		05/27/21	1335	S	1		x
	2174123012		05/27/21	1508	S	1		x
	~~2174123013~~		05/27/21	1520	S	1		x
	2174123014		05/27/21	1205	SW	1		x
	2174123015		05/27/21	1400	SW	1		x
	2174123016		05/27/21	######	SW	1		x
	2174123017		05/27/21	1634	SW	1		x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	2174123	**Profile:**	3905
Client:	Black&Veatch	**Project:**	Jon Dinges
Level:	1	**Date Rec'd:**	5/28/2021 1:35:00 PM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Security Tape Present	Security Tape Intact	Method of Receipt	Comments
	2.9	17	☐	☐		

Checked By: tj

Sample Verification

Loose Caps?	No	**All Samples on COC accounted For?**	No
Broken Containers?	No	**All Samples on COC?**	Yes
pH Verified?	Yes	**Written on Internal COC?**	No
pH Strip Lot #	Hc022887	**Sample Vol. Suff. For Analysis?**	Yes
Acid Preserved Samples Lot #	17910	**Samples Rec'd W/I Hold Time?**	Yes
Base Preserved Samples Lot #		**Are All Samples to be Analyzed?**	Yes
Samples Received From	courier	**Correct Sample Containers?**	Yes
Soil Origin (Domestic/Foreign	Domestic	**COC Comments written on COC?**	No
Site Location/Project on COC?	Yes	**Samplers Initials on COC?**	Yes
Client Project # on COC?	Yes	**Sample Date/Time Indicated?**	Yes
Project Mgr. Indicated on COC	Yes	**TAT Requested:**	STD
COC relinquished/Dated by Client?	Yes	**Client Requests Verbal Results?**	No
COC Received/Dated by JEL	Yes	**Client Notified of discrepancies?**	No
JEL to Conduct ALL Analyses?	No	**Do VOC vials have headspace or a bubble <6mm (1/4")?**	N/A
Number of Encores		**Number of Lab Filtered Metals**	

Subcontract Analysis

Parameter	Via	Lab Name	Comments
tn	Other	Spectrum Analytical, Inc.	

Client Information

SDG:	2174123	**Profile:**	3905
Client:	Black&Veatch	**Project:**	Jon Dinges
Level:	1	**Date Rec'd:**	5/28/2021 1:35:00 PM
Rec'd via:	courier		

LabID	ClientID	Discrepancy	Resolution
2174123013		no containers	emailed client

John Heyman

From: Sample Receiving <samplereceiving@jupiterlabs.com> on behalf of Sample Receiving
Sent: Wednesday, June 02, 2021 4:23 PM
To: John Heyman
Subject: FW: Okeechobee
Attachments: 28-05-2021_141054.pdf

From: Sample Receiving [mailto:samplereceiving@jupiterlabs.com]
Sent: Friday, May 28, 2021 2:49 PM
To: 'dingesj@bv.com' <dingesj@bv.com>
Cc: Kacia Baldwin <kaciab@jupiterlabs.com>
Subject: Okeechobee

Good afternoon.
For the Okeechobee samples received today, there were no containers labeled SS-31. We will continue without running that sample. See attached COC for reference.

Best Regards,

Sample Custodian | Sample Receiving | www.jupiterlabs.com | 561-575-0030 (ext. 3015)

NELAP . DoD ELAP . ISO 17025 . WMBE

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118
www.jupiterlabs.com
clientservices@jupiterlabs.com

June 14, 2021

Jon Dinges
Black & Veatch Corporation
3405 W. Dr. Martin Luther King
Suite 125
Tampa, FL 33607

RE: LOG# 2174166
Project ID: Okeechobee
COC# 2174166

Dear Jon Dinges:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, June 02, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

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

Sincerely,

John Heyman for
Kacia Baldwin
V.P. of Operations

CASE NARRATIVE

Jupiter Environmental Laboratories Inc. Lab Reference No./SDG: 2174166

Client: Black&Veatch

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

The following samples were diluted:

ClientID	LabID	Method	Dilution
SS-31	2174166001	EPA 365.3 (Phosphorus)	50
SS-32	2174166002	EPA 365.3 (Phosphorus)	50
SS-33	2174166003	EPA 365.3 (Phosphorus)	50
SS-34	2174166004	EPA 365.3 (Phosphorus)	50
SS-35	2174166005	EPA 365.3 (Phosphorus)	50
SS-36	2174166006	EPA 365.3 (Phosphorus)	20
SS-37	2174166007	EPA 365.3 (Phosphorus)	50
SS-38	2174166008	EPA 365.3 (Phosphorus)	50
SS-39	2174166009	EPA 365.3 (Phosphorus)	50
SS-41	2174166013	EPA 365.3 (Phosphorus)	50
SS-42	2174166014	EPA 365.3 (Phosphorus)	5
SS-43	2174166015	EPA 365.3 (Phosphorus)	20
SS-44	2174166016	EPA 365.3 (Phosphorus)	50
SS-45	2174166017	EPA 365.3 (Phosphorus)	10
SS-46	2174166018	EPA 365.3 (Phosphorus)	50
SS-47	2174166019	EPA 365.3 (Phosphorus)	50

II. METHODS

Samples were analyzed according to JEL's Standard Operating Procedures for following Method(s):

EPA 365.3 (Phosphorus), EPA 9045, SM 2540D, SM 2540G

III. Analysis

Sample analysis proceeded normally with the exception of following:

Exceptions:

Method: EPA 365.3 (Phosphorus)

Flag: J4|MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

Following Samples/Analytes were flagged:

- LabID: 227368; MS
  Analytes: Total Phosphorus
- LabID: 227553; MS
  Analytes: Total Phosphorus
- LabID: 2174166013; SampleID: SS-41
  Analytes: Total Phosphorus

Flag: J4a| MS value exceeded control limits which could bias sample results high; however sample data is non-detect and was not impacted.

Following Samples/Analytes were flagged:

- LabID: 227369; MSD
  Analytes: Total Phosphorus
- LabID: 227554; MSD
  Analytes: Total Phosphorus

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Jupiter Environmental Laboratories, Inc., both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

SIGNED: DATE: 6/14/21

John Heyman for
Kacia Baldwin
V.P. of Operations

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 2174166

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174166001	SS-31	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166002	SS-32	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166003	SS-33	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166004	SS-34	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166005	SS-35	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166006	SS-36	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166007	SS-37	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166008	SS-38	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166009	SS-39	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166010	SS-40	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166011	WS-67	EPA 365.3 (Phosphorus)	1
		SM 2540D	1
2174166012	WS-68	EPA 365.3 (Phosphorus)	1
		SM 2540D	1

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 2174166

Project ID: Okeechobee

Lab ID	Sample ID	Method	Analytes Reported
2174166013	SS-41	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166014	SS-42	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166015	SS-43	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166016	SS-44	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166017	SS-45	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166018	SS-46	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1
2174166019	SS-47	EPA 365.3 (Phosphorus)	1
		EPA 9045	1
		SM 2540G	1

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE SUMMARY

Workorder: 2174166

Project ID: Okeechobee

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2174166001	SS-31	Soil/Solid	5/28/2021 15:20	6/2/2021 08:30
2174166002	SS-32	Soil/Solid	5/28/2021 09:30	6/2/2021 08:30
2174166003	SS-33	Soil/Solid	5/28/2021 09:33	6/2/2021 08:30
2174166004	SS-34	Soil/Solid	5/28/2021 09:46	6/2/2021 08:30
2174166005	SS-35	Soil/Solid	5/28/2021 09:52	6/2/2021 08:30
2174166006	SS-36	Soil/Solid	5/28/2021 09:59	6/2/2021 08:30
2174166007	SS-37	Soil/Solid	5/28/2021 10:20	6/2/2021 08:30
2174166008	SS-38	Soil/Solid	5/28/2021 10:59	6/2/2021 08:30
2174166009	SS-39	Soil/Solid	5/28/2021 11:08	6/2/2021 08:30
2174166010	SS-40	Soil/Solid	5/28/2021 11:25	6/2/2021 08:30
2174166011	WS-67	Aqueous Liquid	5/28/2021 11:26	6/2/2021 08:30
2174166012	WS-68	Aqueous Liquid	5/28/2021 12:07	6/2/2021 08:30
2174166013	SS-41	Soil/Solid	5/28/2021 12:15	6/2/2021 08:30
2174166014	SS-42	Soil/Solid	5/28/2021 12:18	6/2/2021 08:30
2174166015	SS-43	Soil/Solid	5/28/2021 13:10	6/2/2021 08:30
2174166016	SS-44	Soil/Solid	5/28/2021 13:13	6/2/2021 08:30
2174166017	SS-45	Soil/Solid	5/28/2021 13:45	6/2/2021 08:30
2174166018	SS-46	Soil/Solid	5/28/2021 14:30	6/2/2021 08:30
2174166019	SS-47	Soil/Solid	5/28/2021 14:35	6/2/2021 08:30

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166001** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-31** Date Collected: 5/28/2021 15:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	1300	mg/Kg	190	65.0	50	6/8/2021 15:16	DB	6/8/2021 17:51	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	5.73	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	87.2	%	0.1		1			6/4/2021 16:37	AD	

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166002** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-32** Date Collected: 5/28/2021 09:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	1200	mg/Kg	200	66.6	50	6/8/2021 15:16	DB	6/8/2021 17:51	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.22	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	81.3	%	0.1		1			6/4/2021 16:26	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166003** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-33** Date Collected: 5/28/2021 09:33

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	1100	mg/Kg	160	54.7	50	6/8/2021 15:16	DB	6/8/2021 17:51	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	8.27	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.8	%	0.1		1			6/4/2021 16:37	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166004** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-34** Date Collected: 5/28/2021 09:46

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	1200	mg/Kg	150	51.0	50	6/8/2021 15:16	DB	6/8/2021 17:51	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.63	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	97.2	%	0.1		1			6/4/2021 16:26	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166005** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-35** Date Collected: 5/28/2021 09:52

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	1400	mg/Kg	160	52.1	50	6/8/2021 15:16	DB	6/8/2021 17:51	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.38	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	99.2	%	0.1		1			6/4/2021 16:37	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166006** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-36** Date Collected: 5/28/2021 09:59

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	660	mg/Kg	66	21.9	20	6/8/2021 15:16	DB	6/8/2021 17:56	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.36	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	94.4	%	0.1		1			6/4/2021 16:26	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166007** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-37** Date Collected: 5/28/2021 10:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	1500	mg/Kg	160	52.1	50	6/8/2021 15:16	DB	6/8/2021 17:56	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.40	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	99.3	%	0.1		1			6/4/2021 16:37	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166008** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-38** Date Collected: 5/28/2021 10:59

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	1200	mg/Kg	190	62.7	50	6/8/2021 15:16	DB	6/8/2021 17:56	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.74	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	79.1	%	0.1		1			6/4/2021 16:26	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166009** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-39** Date Collected: 5/28/2021 11:08

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	900	mg/Kg	160	53.7	50	6/8/2021 15:16	DB	6/8/2021 17:56	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	8.01	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	96.3	%	0.1		1			6/4/2021 16:37	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166010** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-40** Date Collected: 5/28/2021 11:25

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	31	mg/Kg	3.3	1.09	1	6/8/2021 15:16	DB	6/8/2021 17:07	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.27	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	75.4	%	0.1		1			6/4/2021 16:26	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166011** Date Received: 6/2/2021 08:30 Matrix: Aqueous Liquid
Sample ID: **WS-67** Date Collected: 5/28/2021 11:26

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.096	mg/L	0.010	0.00500	1	6/9/2021 13:26	DB	6/9/2021 17:18	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	15i	mg/L	16	4.00	1			6/3/2021 14:23	LI	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166012** Date Received: 6/2/2021 08:30 Matrix: Aqueous Liquid
Sample ID: **WS-68** Date Collected: 5/28/2021 12:07

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 365.3 Phosphorus (W)						Preparation Method: Phosphorus Prep Analytical Method: EPA 365.3 (Phosphorus)				
Total Phosphorus	0.072	mg/L	0.010	0.00500	1	6/9/2021 13:26	DB	6/9/2021 17:22	DB	
Analysis Desc: TSS by 2540D [REF] (W)						Analytical Method: SM 2540D				
Total Suspended Solids	7.6i	mg/L	16	4.00	1			6/3/2021 14:23	LI	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166013** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-41** Date Collected: 5/28/2021 12:15

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	830	mg/Kg	210	68.7	50	6/9/2021 13:27	DB	6/9/2021 18:25	DB	J4
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.93	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	78.7	%	0.1		1			6/4/2021 16:37	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166014** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-42** Date Collected: 5/28/2021 12:18

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	62	mg/Kg	30	9.92	5	6/9/2021 13:27	DB	6/9/2021 18:08	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.45	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	48.0	%	0.1		1			6/4/2021 16:37	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166015** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-43** Date Collected: 5/28/2021 13:10

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	630	mg/Kg	64	21.2	20	6/9/2021 13:27	DB	6/9/2021 18:06	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.73	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	89.9	%	0.1		1			6/4/2021 16:26	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166016** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-44** Date Collected: 5/28/2021 13:13

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	990	mg/Kg	170	56.8	50	6/9/2021 13:27	DB	6/9/2021 18:12	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.66	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	77.6	%	0.1		1			6/4/2021 16:31	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166017** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-45** Date Collected: 5/28/2021 13:45

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	110	mg/Kg	43	14.4	10	6/9/2021 13:27	DB	6/9/2021 17:52	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.42	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	61.1	%	0.1		1			6/4/2021 16:26	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166018** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-46** Date Collected: 5/28/2021 14:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	970	mg/Kg	180	59.9	50	6/9/2021 13:27	DB	6/9/2021 18:12	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	6.98	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	99.4	%	0.1		1			6/4/2021 16:37	AD	

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ANALYTICAL RESULTS

Workorder: 2174166
Project ID: Okeechobee

Lab ID: **2174166019** Date Received: 6/2/2021 08:30 Matrix: Soil/Solid
Sample ID: **SS-47** Date Collected: 5/28/2021 14:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: TP in Solids					Preparation Method: Wet Chem Prep Analytical Method: EPA 365.3 (Phosphorus)					
Total Phosphorus	920	mg/Kg	170	57.5	50	6/9/2021 13:27	DB	6/9/2021 18:12	DB	
Analysis Desc: Corrosivity (pH) by EPA 9045					Analytical Method: EPA 9045					
Corrosivity (pH)	7.36	-log[H+]			1			6/3/2021 13:00	LI	
Wet Chemistry										
Analysis Desc: 2540G Percent Solids (Dryweight)					Analytical Method: SM 2540G					
Percent Solids (Dryweight)	98.6	%	0.1		1			6/4/2021 16:31	AD	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 2174166

Project ID: Okeechobee

PARAMETER QUALIFIERS

J4	MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

PROJECT COMMENTS

2174166	A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "i" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.

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QUALITY CONTROL DATA

Workorder: 2174166

Project ID: Okeechobee

QC Batch: REF/6925 Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Associated Lab Samples: 2174166011 2174166012

METHOD BLANK: 227156

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	U	4.0	

SAMPLE DUPLICATE: 227157 Original: 2174166011

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	15	15i	0	5	

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QUALITY CONTROL DATA

Workorder: 2174166

Project ID: Okeechobee

QC Batch: WXX/7730 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 2174123003, 2174123004, 2174123005, 2174123006, 2174123007, 2174123008, 2174123009, 2174123010, 2174123011, 2174123012, 2174166001, 2174166002, 2174166003, 2174166004, 2174166005, 2174166006, 2174166007, 2174166008, 2174166009, 2174166010

METHOD BLANK: 227364

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/Kg	U	1.2	

LABORATORY CONTROL SAMPLE & LCSD: 227365 227366

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	19	19	19	99.9	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227368 227369 Original: 2174123003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	80	19	110		181	182	80-120	0	20	J4

SAMPLE DUPLICATE: 227367 Original: 2174123003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	80	82	1.2	20	

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QUALITY CONTROL DATA

Workorder: 2174166

Project ID: Okeechobee

QC Batch: WXX/7736 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 2174166013 2174166014 2174166015 2174166016 2174166017 2174166018 2174166019

METHOD BLANK: 227549

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/Kg	U	1.2	

LABORATORY CONTROL SAMPLE & LCSD: 227550 227551

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	19	19	18	99.9	97.9	80-120	5.4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227553 227554 Original: 2174166013

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	660	17	700		239	381	80-120	2.8	20	J4

SAMPLE DUPLICATE: 227552 Original: 2174166013

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/Kg	660	860	3	20	

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QUALITY CONTROL DATA

Workorder: 2174166

Project ID: Okeechobee

QC Batch: WXX/7737 Analysis Method: EPA 365.3 (Phosphorus)

QC Batch Method: Phosphorus Prep

Associated Lab Samples: 2174166011 2174166012

METHOD BLANK: 227555

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Phosphorus	mg/L	U	0.0050	

LABORATORY CONTROL SAMPLE & LCSD: 227556 227557

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.25	0.26	0.26	106	106	85-115	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227558 227559 Original: 2174283002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.036	0.25	0.28		99.5	101	85-115	3.5	20	

SAMPLE DUPLICATE: 227560 Original: 2174283002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Phosphorus	mg/L	0.036	0.040	10.5	20	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 2174166

Project ID: Okeechobee

QUALITY CONTROL PARAMETER QUALIFIERS

J4	MS/MSD recovery exceeded control limits due to matrix interference. LCS/LCSD recovery was within acceptable range.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174166

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174166002	**SS-32**	SM 2540G	WGR/5008		
2174166004	**SS-34**	SM 2540G	WGR/5008		
2174166006	**SS-36**	SM 2540G	WGR/5008		
2174166008	**SS-38**	SM 2540G	WGR/5008		
2174166010	**SS-40**	SM 2540G	WGR/5008		
2174166015	**SS-43**	SM 2540G	WGR/5008		
2174166017	**SS-45**	SM 2540G	WGR/5008		
2174166001	**SS-31**	EPA 9045	WPH/2347		
2174166002	**SS-32**	EPA 9045	WPH/2347		
2174166003	**SS-33**	EPA 9045	WPH/2347		
2174166004	**SS-34**	EPA 9045	WPH/2347		
2174166005	**SS-35**	EPA 9045	WPH/2347		
2174166006	**SS-36**	EPA 9045	WPH/2347		
2174166007	**SS-37**	EPA 9045	WPH/2347		
2174166008	**SS-38**	EPA 9045	WPH/2347		
2174166009	**SS-39**	EPA 9045	WPH/2347		
2174166010	**SS-40**	EPA 9045	WPH/2347		
2174166013	**SS-41**	EPA 9045	WPH/2347		
2174166014	**SS-42**	EPA 9045	WPH/2347		
2174166015	**SS-43**	EPA 9045	WPH/2347		
2174166016	**SS-44**	EPA 9045	WPH/2347		
2174166017	**SS-45**	EPA 9045	WPH/2347		
2174166018	**SS-46**	EPA 9045	WPH/2347		
2174166019	**SS-47**	EPA 9045	WPH/2347		
2174166011	**WS-67**	SM 2540D	REF/6925		
2174166012	**WS-68**	SM 2540D	REF/6925		
2174166016	**SS-44**	SM 2540G	WGR/5011		

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174166

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174166019	**SS-47**	SM 2540G	WGR/5011		
2174166001	**SS-31**	SM 2540G	WGR/5013		
2174166003	**SS-33**	SM 2540G	WGR/5013		
2174166005	**SS-35**	SM 2540G	WGR/5013		
2174166007	**SS-37**	SM 2540G	WGR/5013		
2174166009	**SS-39**	SM 2540G	WGR/5013		
2174166013	**SS-41**	SM 2540G	WGR/5013		
2174166014	**SS-42**	SM 2540G	WGR/5013		
2174166018	**SS-46**	SM 2540G	WGR/5013		
2174166001	**SS-31**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166002	**SS-32**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166003	**SS-33**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166004	**SS-34**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166005	**SS-35**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166006	**SS-36**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166007	**SS-37**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166008	**SS-38**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166009	**SS-39**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166010	**SS-40**	Wet Chem Prep	WXX/7730	EPA 365.3 (Phosphorus)	WET/8498
2174166013	**SS-41**	Wet Chem Prep	WXX/7736	EPA 365.3 (Phosphorus)	WET/8501
2174166014	**SS-42**	Wet Chem Prep	WXX/7736	EPA 365.3 (Phosphorus)	WET/8501
2174166015	**SS-43**	Wet Chem Prep	WXX/7736	EPA 365.3 (Phosphorus)	WET/8501
2174166016	**SS-44**	Wet Chem Prep	WXX/7736	EPA 365.3 (Phosphorus)	WET/8501
2174166017	**SS-45**	Wet Chem Prep	WXX/7736	EPA 365.3 (Phosphorus)	WET/8501

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2174166

Project ID: Okeechobee

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2174166018	**SS-46**	Wet Chem Prep	WXX/7736	EPA 365.3 (Phosphorus)	WET/8501
2174166019	**SS-47**	Wet Chem Prep	WXX/7736	EPA 365.3 (Phosphorus)	WET/8501
2174166011	**WS-67**	Phosphorus Prep	WXX/7737	EPA 365.3 (Phosphorus)	WET/8500
2174166012	**WS-68**	Phosphorus Prep	WXX/7737	EPA 365.3 (Phosphorus)	WET/8500

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/14/2021
Work Order # 21F0093
Project: 2174166

Lab ID: 21F0093
Matrix: Solid

Received Date: 06/02/21 15:00
Collected By: Client

Analysis: % Solids

Laboratory Analysis Report

Wet Chemistry

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
2174166001	05/28/21 15:20	95.3		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166002	05/28/21 09:30	70.3		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166003	05/28/21 09:33	98.6		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166004	05/28/21 09:46	99.2		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166005	05/28/21 09:52	99.4		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166006	05/28/21 09:59	98.7		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166007	05/28/21 10:20	99.5		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166008	05/28/21 10:59	77.9		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166009	05/28/21 11:08	99.1		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166010	05/28/21 11:25	77.8		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166013	05/28/21 12:15	76.0		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166014	05/28/21 12:18	70.3		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166015	05/28/21 13:10	94.4		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166016	05/28/21 13:13	73.6		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166017	05/28/21 13:45	71.5		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166018	05/28/21 14:30	99.4		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO
2174166019	05/28/21 14:35	99.5		% by Weight	1	0.100	0.300	SM2540G	06/04 09:54	06/04 09:54	MWO

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/14/2021
Work Order # 21F0093
Project: 2174166

Lab ID: 21F0093
Matrix: Solid

Received Date: 06/02/21 15:00
Collected By: Client

Analysis: Total Nitrogen

Laboratory Analysis Report

Wet Chemistry

Sample ID	Collect:Date/Time	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
2174166001	05/28/21 15:20	1240		mg/kg dry	1	0.218	15.1	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166002	05/28/21 09:30	45.8		mg/kg dry	1	0.296	20.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166003	05/28/21 09:33	1060		mg/kg dry	1	0.211	14.6	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166004	05/28/21 09:46	646		mg/kg dry	1	0.210	14.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166005	05/28/21 09:52	245		mg/kg dry	1	0.209	14.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166006	05/28/21 09:59	272		mg/kg dry	1	0.211	14.6	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166007	05/28/21 10:20	181		mg/kg dry	1	0.209	14.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166008	05/28/21 10:59	ND	U	mg/kg dry	1	0.267	18.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166009	05/28/21 11:08	267		mg/kg dry	1	0.210	14.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166010	05/28/21 11:25	83.0		mg/kg dry	1	0.267	18.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166011	05/28/21 11:26	0.481	I	mg/L	1	0.00250	0.552	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174166012	05/28/21 12:07	0.562		mg/L	1	0.00250	0.552	TKN + NOX	06/10 08:25	06/10 08:25	SA
2174166013	05/28/21 12:15	101		mg/kg dry	1	0.274	18.9	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166014	05/28/21 12:18	1270		mg/kg dry	1	0.296	20.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166015	05/28/21 13:10	60.9		mg/kg dry	1	0.220	15.3	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166016	05/28/21 13:13	35.0		mg/kg dry	1	0.283	19.6	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166017	05/28/21 13:45	947		mg/kg dry	1	0.291	20.1	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166018	05/28/21 14:30	177		mg/kg dry	1	0.209	14.5	TKN + NOX	06/11 10:50	06/11 10:50	SA
2174166019	05/28/21 14:35	279		mg/kg dry	1	0.209	14.5	TKN + NOX	06/11 10:50	06/11 10:50	SA

Report To:
Rebecca Lourido
Jupiter Environmental Labs
150 South Old Dixie Highway
Jupiter FL, 33458

Report Printed: 6/14/2021
Work Order # 21F0093
Project: 2174166

Notes and Definitions

U	Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
Unless indicated, soil results are reported on actual (wet) weight basis.
Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Maria Castellanos - Lab Manager

Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services,Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Jupiter
Environmental Laboratories, Inc.

21F0093

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

DATE:
PAGE: 1 OF 2

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174166
ADDRESS: 150 S. Old Dixie Hwy	P.O. NO.:
CITY: Jupiter, Fl, 33458	PROJECT CONTACT: Rebecca Lourido
TEL: 561-575-0030	QUOTE NO.:
	SAMPLER(S): (SIGNATURE)
	LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total nitrogen
01	2174166001	Sd	05/28/21	1520	s	1		x
02	2174166002	↓	05/28/21	0930	s	1		x
03	2174166003		05/28/21	0933	s	1		x
04	2174166004		05/28/21	0946	s	1		x
05	2174166005		05/28/21	0952	s	1		x
06	2174166006		05/28/21	~~0.0955~~ 0959	s	1		x
07	2174166007		05/28/21	1020	s	1		x
08	2174166008		05/28/21	1059	s	1		x
09	2174166009		05/28/21	1108	s	1		x
10	2174166010		05/28/21	1125	s	1		x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	6/2/21	1345
[signature]	[signature]	6/2/21	1500

#6 + 16 Time per Client email

Ice 3.2 °C
GUN-1

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

DATE:
PAGE: 2 OF 2

21F0093

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174166
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030 -	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total nitrogen
11	2174166011	TS	05/28/21	1126	SW	1		x
12	2174166012	TS	05/28/21	1207	SW	1		x
13	2174166013	SH	05/28/21	1215	s	1		x
14	2174166014	"	05/28/21	1218	s	1		x
15	2174166015	"	05/28/21	1310	s	1		x
16	2174166016	"	05/28/21	~~0:00~~ 1313	s	1		x
17	2174166017	"	05/28/21	1345	s	1		x
18	2174166018	"	05/28/21	1430	s	1		x
19	2174166019	"	05/28/21	1435	s	1		x

Relinquished by: (Signature)	Received by: (Signature)	Date: 6/2/21	Time: 1345
Relinquished by: (Signature) DMM	Received by: (Signature)	Date: 6/2/21	Time: 1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

ce 3-2 x

GUN-1

Page 5 of 5

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 21741 | 61
P.O. # _____
Quote # _____

Company Name: Black & Veatch
Address: 3405 W. Dr. MLK Jr. Blvd. Suite 125
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon M. Dinges Email: DingesJM@BV.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Tot phosphorus, pH	Tot. Nitrogen	Tot. phosphorus	TSS	Field Filtered (Y/N)
1	SS-31	5/28/21	1520	S	2		X	X			
2	SS-32	5/28/21	0930	S	2		X	X			
3	SS-33	5/28/21	0933	S	2		X	X			
4	SS-34	5/28/21	0946	S	2		X	X			
5	SS-35	5/28/21	0952	S	2		X	X			
6	SS-36	5/28/21	0959	S	2		X	X			
7	SS-37	5/28/21	1020	S	2		X	X			
8	SS-38	5/28/21	1059	S	2		X	X			
9	SS-39	5/28/21	1108	S	2		X	X			
10	SS-40	5/28/21	1125	S	2		X	X			

LAB ANALYSIS

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
X Standard
___ Expedited
Due ___/___/___

Comments

Matrix Codes*
S Soil/Solid Sediment; GW Ground Water; WW Waste Water; DW Drinking Water; SW Surface Water; SL Sludge; O Other (Please Specify)

Pres Codes
A- none; B- HNO_3; C- H_2SO_4; D- NaOH; E- HCl; I- Ice; O- Other; M- MeOH; N- $Na_2S_2O_3$; Z- ZnAc

QA/QC level with report
None ___ 1 ___ 2 ___ 3 ___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 3.3 °C

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/1/21	1300	[signature]	6/1/21	1300
[signature]	6/1/21	1900	[signature]	6/1/21	1900
[signature]	6/2/21	830	[signature]	6/2/21	830

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 2174166
P.O. # ______
Quote # ______

Company Name: Black & Veatch
Address: 3405 W. Dr. MLK Jr. Blvd. Suite 125
City: Tampa State: FL Zip: 33607
Sampling Site Address:
Attn: Jon M. Dinges Email: DingesJ@BV.com
Project Name: Okeechobee Project #:
Sampler Name/Signature: Chelsea Dickenson [signature]

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
X Standard
__ Expedited
Due __/__/__

LAB ANALYSIS

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Tot. phosphorus, pH	Tot. Nitrogen	Tot. phosphorus	TSS	Field Filtered (Y/N)	Comments
1	WS-67	5/28/21	1126	SW	3		X	X	X		
2	WS-68	↓	1207	SW	3		X	X	X		
3	SS-41	↓	1215	S	2	X	X				
4	SS-42	↓	1218	S	2	X	X				
5	SS-43	↓	1310	S	2	X	X				
6	SS-44	↓	1313	S	2	X	X				
7	SS-45	↓	1345	S	2	X	X				
8	SS-46	↓	1430	S	2	X	X				
9	SS-47	↓	1435	S	2	X	X				
10		↓		S	2						

Matrix Codes*
S Soil/Solid Sediment; GW Ground Water; WW Waste Water; DW Drinking Water; SW Surface Water; SL Sludge; O Other (Please Specify)

Pres Codes
A- none; B- HNO_3; C- H_2SO_4; D- NaOH; E- HCl; I- Ice; O- Other; M- MeOH; N- $Na_2S_2O_3$; Z- ZnAc

QA/QC level with report
None __ 1 __ 2 __ 3 __ See price guide for applicable fees

FDEP Dry Cleaning ☐ FDEP UST Pre-Approval ☐
SFWMD ☐ ADaPT ☐ DOT ☐

Temp Control: 3.3 °C

Relinquished by	Date	Time	Received by	Date	Time
Jon Hull	6/1/21	1300	Paul F	6/1/21	1300
Paul F	6/1/21	1900	FLC	6/1/21	1900
FLC	6/2/21	830	[signature]	6/2/21	830

Jupiter
Environmental Laboratories, Inc

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

DATE:
PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs	CLIENT PROJECT NAME / NUMBER: 2174166
ADDRESS: 150 S. Old Dixie Hwy	PROJECT CONTACT: Rebecca Lourido
CITY: Jupiter, Fl, 33458	SAMPLER(S): (SIGNATURE)
TEL: 561-575-0030 -	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required: Total nitrogen
	2174166001		05/28/21	1520	s	1	x
	2174166002		05/28/21	0930	s	1	x
	2174166003		05/28/21	0933	s	1	x
	2174166004		05/28/21	0946	s	1	x
	2174166005		05/28/21	0952	s	1	x
	2174166006		05/28/21	0:00	s	1	x
	2174166007		05/28/21	1020	s	1	x
	2174166008		05/28/21	1059	s	1	x
	2174166009		05/28/21	1108	s	1	x
	2174166010		05/28/21	1125	s	1	x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Spectrum

CHAIN OF CUSTODY RECORD

DATE:
PAGE: _____ OF _____

LABORATORY CLIENT: Jupiter Environmental Labs
ADDRESS: 150 S. Old Dixie Hwy
CITY: Jupiter, Fl, 33458
TEL: 561-575-0030 -

CLIENT PROJECT NAME / NUMBER: 2174166
PROJECT CONTACT: Rebecca Lourido
SAMPLER(S): (SIGNATURE)

P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☑ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required	Total nitrogen
	2174166011		05/28/21	1126	SW	1		x
	2174166012		05/28/21	1207	SW	1		x
	2174166013		05/28/21	1215	s	1		x
	2174166014		05/28/21	1218	s	1		x
	2174166015		05/28/21	1310	s	1		x
	2174166016		05/28/21	0:00	s	1		x
	2174166017		05/28/21	1345	s	1		x
	2174166018		05/28/21	1430	s	1		x
	2174166019		05/28/21	1435	s	1		x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	2174166	**Profile:**	3905
Client:	Black&Veatch	**Project:**	Jon Dinges
Level:	1	**Date Rec'd:**	6/2/2021 8:30:00 AM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Security Tape Present	Security Tape Intact	Method of Receipt	Comments
	3.3	19	☐	☐		

Checked By: tj

Sample Verification

Loose Caps?	No	**All Samples on COC accounted For?**	Yes
Broken Containers?	No	**All Samples on COC?**	Yes
pH Verified?	Yes	**Written on Internal COC?**	No
pH Strip Lot #	Hc022887	**Sample Vol. Suff. For Analysis?**	Yes
Acid Preserved Samples Lot #	17910	**Samples Rec'd W/I Hold Time?**	Yes
Base Preserved Samples Lot #		**Are All Samples to be Analyzed?**	Yes
Samples Received From	courier	**Correct Sample Containers?**	Yes
Soil Origin (Domestic/Foreign	Domestic	**COC Comments written on COC?**	No
Site Location/Project on COC?	Yes	**Samplers Initials on COC?**	Yes
Client Project # on COC?	Yes	**Sample Date/Time Indicated?**	Yes
Project Mgr. Indicated on COC	Yes	**TAT Requested:**	STD
COC relinquished/Dated by Client?	Yes	**Client Requests Verbal Results?**	No
COC Received/Dated by JEL	Yes	**Client Notified of discrepancies?**	No
JEL to Conduct ALL Analyses?	No	**Do VOC vials have headspace or a bubble <6mm (1/4")?**	N/A
Number of Encores	0	**Number of Lab Filtered Metals**	0

Subcontract Analysis

Parameter	Via	Lab Name	Comments
tn	Other	Spectrum Analytical, Inc.	

SFWMD - Lake Okeechobee Remote Sensing Field Work

Lab Results - Cross Reference

BLACK & VEATCH

Soil Analytical Summary - Cross reference

Client: Black & Veatch Corporation
Project: Okeechobee

Sample Location	Lab ID	PDF file	Total Phosphorous lab results	Total Nitrogen lab results	Chain of Custody	Comments
SS-01	2174101010	2174101	☑	☑	☑	Sample result received
SS-02	2174101011	2174101	☑	☑	☑	Sample result received
SS-03	2174101012	2174101	☑	☑	☑	Sample result received
SS-04	2174101013	2174101	☑	☑	☑	Sample result received
SS-05	2174101014	2174101	☑	☑	☑	Sample result received
SS-06	2174101015	2174101	☑	☑	☑	Sample result received
SS-07	2174101016	2174101	☑	☑	☑	Sample result received
SS-08	2174101017	2174101	☑	☑	☑	Sample result received
SS-09	2174101018	2174101	☑	☑	☑	Sample result received
SS-10	2174101001	2174101	☑	☑	☑	Sample result received
SS-11	2174101002	2174101	☑	☑	☑	Sample result received
SS-12	2174101003	2174101	☑	☑	☑	Sample result received
SS-13	2174101004	2174101	☑	☑	☑	Sample result received
SS-14	2174101005	2174101	☑	☑	☑	Sample result received
SS-15	2174101006	2174101	☑	☑	☑	Sample result received
SS-16	2174101007	2174101	☑	☑	☑	Sample result received
SS-17	2174101008	2174101	☑	☑	☑	Sample result received
SS-18	2174101009	2174101	☑	☑	☑	Sample result received
SS-19	2174123001	2174123	☑	☑	☑	Sample result received
SS-20	2174123002	2174123	☑	☑	☑	Sample result received
SS-21	2174123003	2174123	☑	☑	☑	Sample result received
SS-22	2174123004	2174123	☑	☑	☑	Sample result received
SS-23	2174123005	2174123	☑	☑	☑	Sample result received
SS-24	2174123006	2174123	☑	☑	☑	Sample result received
SS-25	2174123007	2174123	☑	☑	☑	Sample result received
SS-26	2174123008	2174123	☑	☑	☑	Sample result received
SS-27	2174123009	2174123	☑	☑	☑	Sample result received
SS-28	2174123010	2174123	☑	☑	☑	Sample result received
SS-29	2174123011	2174123	☑	☑	☑	Sample result received
SS-30	2174123012	2174123	☑	☑	☑	Sample result received
SS-31	2174166001	2174166	☑	☑	☑	Sample result received
SS-32	2174166002	2174166	☑	☑	☑	Sample result received
SS-33	2174166003	2174166	☑	☑	☑	Sample result received
SS-34	2174166004	2174166	☑	☑	☑	Sample result received
SS-35	2174166005	2174166	☑	☑	☑	Sample result received
SS-36	2174166006	2174166	☑	☑	☑	Sample result received
SS-37	2174166007	2174166	☑	☑	☑	Sample result received
SS-38	2174166008	2174166	☑	☑	☑	Sample result received
SS-39	2174166009	2174166	☑	☑	☑	Sample result received
SS-40	2174166010	2174166	☑	☑	☑	Sample result received
SS-41	2174166013	2174166	☑	☑	☑	Sample result received
SS-42	2174166014	2174166	☑	☑	☑	Sample result received
SS-43	2174166015	2174166	☑	☑	☑	Sample result received
SS-44	2174166016	2174166	☑	☑	☑	Sample result received
SS-45	2174166017	2174166	☑	☑	☑	Sample result received
SS-46	2174166018	2174166	☑	☑	☑	Sample result received
SS-47	2174166019	2174166	☑	☑	☑	Sample result received

Water Analytical Summary - Cross reference

Client: Black & Veatch Corporation
Project: Okeechobee

Sample Location	Lab ID	PDF file	Total Phosphorous lab results	Total Nitrogen lab results	Chain of Custody	Comments
WS-01	2174060001	2174060	☑	☑	☑	Sample result received
WS-02	2174060002	2174060	☑	☑	☑	Sample result received
WS-03	2174060003	2174060	☑	☑	☑	Sample result received
WS-04	2174060004	2174060	☑	☑	☑	Sample result received
WS-05	2174060005	2174060	☑	☑	☑	Sample result received
WS-06	2174060006	2174060	☑	☑	☑	Sample result received
WS-07	2174060007	2174060	☑	☑	☑	Sample result received
WS-08	2174060008	2174060	☑	☑	☑	Sample result received
WS-09	2174060009	2174060	☑	☑	☑	Sample result received
WS-10	2174060010	2174060	☑	☑	☑	Sample result received
WS-11	2174060011	2174060	☑	☑	☑	Sample result received
WS-12	2174060012	2174060	☑	☑	☑	Sample result received
WS-13	2174060013	2174060	☑	☑	☑	Sample result received
WS-14	2174060014	2174060	☑	☑	☑	Sample result received
WS-15	2174060015	2174060	☑	☑	☑	Sample result received
WS-16	2174060016	2174060	☑	☑	☑	Sample result received
WS-17	2174060017	2174060	☑	☑	☑	Sample result received
WS-18	2174060018	2174060	☑	☑	☑	Sample result received
WS-19	2174060019	2174060	☑	☑	☑	Sample result received
WS-20	2174060020	2174060	☑	☑	☑	Sample result received
WS-21	2174060021	2174060	☑	☑	☑	Sample result received
WS-22	2174060022	2174060	☑	☑	☑	Sample result received
WS-23	2174060023	2174060	☑	☑	☑	Sample result received
WS-24	2174060024	2174060	☑	☑	☑	Sample result received
WS-25	2174060025	2174060	☑	☑	☑	Sample result received
WS-26	2174060026	2174060	☑	☑	☑	Sample result received
WS-27	2174060027	2174060	☑	☑	☑	Sample result received
WS-28	2174060028	2174060	☑	☑	☑	Sample result received
WS-29	2174060029	2174060	☑	☑	☑	Sample result received
WS-30	2174060030	2174060	☑	☑	☑	Sample result received
WS-31	2174060031	2174060	☑	☑	☑	Sample result received
WS-32	2174060032	2174060	☑	☑	☑	Sample result received
WS-33	2174060033	2174060	☑	☑	☑	Sample result received
WS-34	2174060034	2174060	☑	☑	☑	Sample result received
WS-35	2174060035	2174060	☑	☑	☑	Sample result received
WS-36	2174087001	2174087	☑	☑	☑	Sample result received
WS-37	2174087002	2174087	☑	☑	☑	Sample result received
WS-38	2174087003	2174087	☑	☑	☑	Sample result received
WS-39	2174087004	2174087	☑	☑	☑	Sample result received
WS-40	2174087005	2174087	☑	☑	☑	Sample result received
WS-41	2174087006	2174087	☑	☑	☑	Sample result received
WS-42	2174087007	2174087	☑	☑	☑	Sample result received
WS-43	2174087008	2174087	☑	☑	☑	Sample result received
WS-44	2174087009	2174087	☑	☑	☑	Sample result received
WS-45	2174087010	2174087	☑	☑	☑	Sample result received
WS-46	2174087011	2174087	☑	☑	☑	Sample result received
WS-47	2174087012	2174087	☑	☑	☑	Sample result received
WS-48	2174087013	2174087	☑	☑	☑	Sample result received

WS-49	2174087014	2174087	☑	☑	☑	Sample result received
WS-50	2174087015	2174087	☑	☑	☑	Sample result received
WS-51	2174087016	2174087	☑	☑	☑	Sample result received
WS-52	2174087017	2174087	☑	☑	☑	Sample result received
WS-53	2174087018	2174087	☑	☑	☑	Sample result received
WS-54	2174087019	2174087	☑	☑	☑	Sample result received
WS-55	2174087020	2174087	☑	☑	☑	Sample result received
WS-56	2174087021	2174087	☑	☑	☑	Sample result received
WS-57	2174087022	2174087	☑	☑	☑	Sample result received
WS-58	2174087023	2174087	☑	☑	☑	Sample result received
WS-59	2174087024	2174087	☑	☑	☑	Sample result received
WS-60	2174087025	2174087	☑	☑	☑	Sample result received
WS-61	2174087026	2174087	☑	☑	☑	Sample result received
WS-62	2174101019	2174101	☑	☑	☑	Sample result received
WS-63	2174123014	2174123	☑	☑	☑	Sample result received
WS-64	2174123015	2174123	☑	☑	☑	Sample result received
WS-65	2174123016	2174123	☑	☑	☑	Sample result received
WS-66	2174123017	2174123	☑	☑	☑	Sample result received
WS-67	2174166011	2174166	☑	☑	☑	Sample result received
WS-68	2174166012	2174166	☑	☑	☑	Sample result received