

Limited Soil Assessment

Flagler Beach Salt Marsh Project
Flagler Beach, Florida

June 20, 2019
Terracon Project No. H1197384



Prepared for:
University of Florida, Whitney Laboratory for Marine Bioscience
St. Augustine, Florida

Prepared by:
Terracon Consultants, Inc.
Winter Park, Florida

terracon.com

Terracon

June 20, 2019



University of Florida
Whitney Laboratory for Marine Bioscience
9505 Ocean Shore Boulevard
St. Augustine, Florida 32080

Attn: Todd Osborne
Telephone: 904-315-2758
E-mail: osbornet@ufl.edu

Re: Limited Soil Assessment
Flagler Beach Salt Marsh Project
Flagler Beach, Florida
Terracon Project No. H1197384

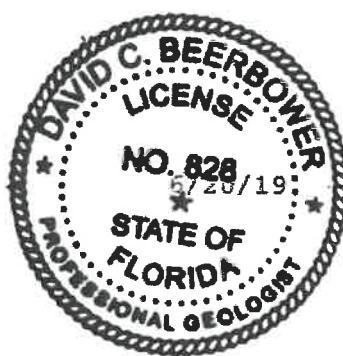
Dear Mr. Osborne:

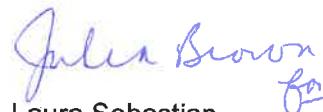
Terracon Consultants, Inc. (Terracon) is pleased to submit our report of Limited Soil Assessment (LSA) completed at the site referenced above. The report presents data from recent field activities that included the collection of soil samples for chemical analysis. Terracon conducted the testing in general accordance with Terracon's Proposal No. PH1197384 dated May 14, 2019.

Terracon appreciates this opportunity to provide environmental services to University of Florida. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.


David Beerbower, PG
Principal
Florida Registration No. 828




Laura Sebastian
Senior Staff Scientist

cc : Betty Ledyard - info@centerlinedistribution.net

Terracon Consultants, Inc. 1675 Lee Rd. Winter Park FL 32789
P 407-740-6110 F 407-740-6112 terracon.com

Environmental

Facilities

Geotechnical

Materials

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**LIMITED SOIL ASSESSMENT
FLAGLER BEACH SALT MARSH PROJECT
FLAGLER BEACH, FLORIDA**

Terracon Project No. H1197384

June 20, 2019

1.0 SITE DESCRIPTION

The site is approximately 113 acres of salt marsh south of Flagler Beach in Flagler County, Florida. The site was excavated in the 1950s or 1960s to form ditches for mosquito-eating fish. The St. Johns River Water Management District (SJRWMD) will return the ditches to salt marsh by leveling spoil piles formed by excavating those ditches. The first phase of restoration is underway west of the Intracoastal Waterway (locally known as Halifax River) near Gamble Rogers Memorial State Recreation Area.

The site location is shown on a portion of a U.S. Geological Survey topographical quadrangle map provided as Exhibit 1 and a site diagram is provided as Exhibit 2.

2.0 PREVIOUS ASSESSMENT

On November 7, 2018, Aerostar SES, LLC (Aerostar) collected surficial soil samples within one foot of land surface at five spoil piles within the proposed wetland restoration area for laboratory analysis of organochlorine pesticides at Pace Analytical in Ormond Beach, Florida. A concentration of 0.0003 milligram per kilogram (mg/kg) of dichlorodiphenyldichloroethylene (4,4'-DDE) was estimated in the sample collected from Project Area Section GR2 (about 200 feet west of the Intracoastal Waterway across from Gamble Rogers Memorial State Recreation Area). The estimated concentration is well below Florida's leachability-based soil cleanup target level (CTL) of 0.04 mg/kg based on surface water criteria. No other pesticides were reported in the samples above the laboratory method detection limits (MDLs).

3.0 SCOPE OF SERVICES

In a letter dated May 8, 2019, Dr. William Davis, Triad Environmental Solutions, Inc., recommended additional sampling of five spoil piles at one-foot intervals to the bottom of each spoil pile to address concerns that 4,4'-DDE or dichlorodiphenyldichloroethane (4,4'-DDD) could have leached deeper into soil that will be disturbed to return the site to its original topography. Such post-application leaching could only have occurred from aerial application of dichlorodiphenyltrichloroethane (4,4'-DDT) at the site prior to the time that it was banned by the US Environmental Protection Agency (EPA) in 1972.

Dr. Davis recommended additional sampling of five spoil piles at one-foot intervals to the bottom of each spoil pile. The purpose of this Limited Soil Assessment (LSA) is to conduct soil testing as prescribed by Dr. Davis.

3.1 Standard of Care

Terracon's services were performed in accordance with Terracon's Proposal No. PH1197384 dated May 14, 2019, and the standard of care set forth therein. Except as set forth in the Agreement for Services, Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These LSA services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal.

3.2 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this LSA. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

3.3 Reliance

This report has been prepared for the exclusive use of the University of Florida (client). Any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of the client and Terracon. Any unauthorized distribution or reuse is at client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be permitted to the extent set forth in but subject to, the terms, conditions, and limitations stated in the proposal, LSA report, and our Agreement for Services dated May 14, 2019. The limitation of liability defined in the terms and conditions of such agreement is the aggregate limit of Terracon's liability to the client and all relying parties unless otherwise agreed in writing.

4.0 FIELD INVESTIGATION

Terracon has a commitment to the safety of all its employees. As such, and in accordance with our Incident and Injury Free® safety culture, a site safety pre-task plan was developed to identify potential safety concerns and prepare our personnel to handle conditions during field services. Prior to commencement of daily on-site activities, Terracon held a meeting with assigned staff to review the proposed work sequence and evaluate work practices for safe completion of the project. Fieldwork was conducted by environmental staff with OSHA 1910.120 training. Sampling activities were conducted in general accordance with the FDEP *Standard Operating Procedures for Field Activities*, DEP-SOP-001/01.

On June 7, 2019, a total of five soil borings were advanced to the water table to observe soils for physical indications of potential contaminant impacts. The soil boring locations were hand-augered within the same Wetland Project Area Sections as Aerostar's November 2018 borings. Approximate soil boring locations are illustrated on Exhibit 2, which also displays St Johns River Water Management District's 16 Project Area Sections. Global Positioning System (GPS) latitude and longitude coordinates for the borings are provided below:

| Boring ID | Depth to Water (feet) | Latitude (° North) | Longitude (° West) |
|-----------|-----------------------|--------------------|--------------------|
| FC-GR2 | 2 | 29.43559 | 81.11349 |
| FC-I | 1 | 29.43525 | 81.11696 |
| FC-K | 2 | 29.43868 | 81.11882 |
| FC-B | 2 | 29.43130 | 81.11569 |
| FC-L1 | 1 | 29.42617 | 81.11623 |

Discrete samples were collected at 1-foot intervals at borings FC-GR2, FC-I, FC-K, FC-B and FC-L1 to the water table, which was encountered at a depth of 1 to 2 feet below ground surface (bgs) at each spoil pile. Physical indications of contaminant impacts were not apparent in the soil observed at the boring locations. Sampling equipment was decontaminated with Luminox detergent and rinsed with deionized water between borings. An equipment rinsate blank was collected after sampling was completed at boring FC-B.

The soil samples and equipment rinsate blank were placed in laboratory prepared glassware, labelled, and placed on ice in a cooler sealed with chain-of-custody tape. Boreholes were back-filled with the remaining disturbed soil. The sample cooler with completed chain-of-custody record was transported and relinquished to Pace Analytical (Pace) in Ormond Beach, Florida (Florida Department of Health Certification #E83079).

Additional soil samples (not duplicate samples) were simultaneously collected from the same borings, placed in laboratory prepared glassware, labelled, and placed on ice in another cooler.

The second cooler with a separate completed chain-of-custody record was transported to the University of Florida, Whitney Laboratory for Marine Bioscience in St. Augustine, Florida.

Pace analyzed the soil samples for organochlorine pesticides by EPA Method 8081B. Analytical results were compared to Florida's soil cleanup target levels (CTLs) listed in Chapter 62-777, Florida Administrative Code (FAC). Only 4,4'-DDE and 4,4'-DDD were estimated above the laboratory MDLs in the uppermost soil sample collected at Project Area Section GR2. The estimated concentrations of the 4,4'-DDT metabolites do not exceed the laboratory's practical quantitation limits (PQLs) or Florida's leachability-based soil CTLs based on surface water criteria. No other constituents were reported above the laboratory MDLs in the soil samples. Table 1 provides a summary of soil analytical results. Pace's laboratory analytical report and the chain-of-custody record are provided in Appendix A.

5.0 FINDINGS AND RECOMMENDATIONS

5.1 Findings

No organochlorine pesticides, including 4,4'-DDT, 4,4'-DDE and 4,4'-DDD, were reported above Florida's soil CTLs or laboratory PQLs in any of the soil samples collected on June 7, 2019. Though the analytical results may be indicative of 4,4'-DDT application or drift within the Wetland Project Area and ensuing leaching of the metabolites 4,4'-DDE or 4,4'-DDD into soil, they do not reveal organochlorine pesticide levels above Florida's soil CTLs for leachability based on marine surface water criteria or the less stringent fresh water surface water criteria, groundwater criteria, or direct human exposure.

5.2 Recommendations

Based on the scope of services described in this report and subject to the limitations described herein, Terracon does not recommend additional assessment at this time.

TABLE

TABLE 1: SOIL ANALYTICAL SUMMARY

Facility Name: Flagler Beach Salt Marsh Project
 Location: Flagler Beach, Florida

No Data/Not Analyzed = Blank
 Analytical Results = mg/kg

| Sample Location | Date Sampled | Aldrin | alpha-BHC | beta-BHC | delta-BHC | gamma-BHC (Lindane) | Chlordane (Technical) | alpha-Chlordane | gamma-Chlordane | 4,4'-DDD | 4,4'-DDT | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan sulfate | Endrin | Endrin aldehyde | Endrin ketone | Heptachlor | Heptachlor epoxide | Methoxychlor | Mirex | Toraphene | |
|---|----------------------|-------------|---------------|--------------|------------|------------------------|--------------------------|-----------------|-----------------|-------------|-------------|-------------|---------------|---------------|--------------------|---------------|-----------------|---------------|-------------|--------------------|--------------|----------|--------------|----------|
| FDEP SCTL-R ¹ (mg/kg) | | 0.06 | 0.1 | 0.5 | 24 | 0.7 | 2.8 | --- | --- | 4.2 | 2.9 | 0.06 | 450 | 450 | 450 | 25 | --- | --- | 0.2 | 0.1 | --- | 0.9 | | |
| FDEP Marine Surface Water Leachability ² (mg/kg) | | 0.01 | 0.0003 | 0.003 | --- | 0.003 | 0.003 | --- | --- | 0.01 | 0.04 | 0.06 | 0.0001 | 0.0008 | 0.0008 | 0.0008 | 0.001 | --- | 0.01 | 0.0001 | 0.1 | --- | 0.002 | |
| FC-GR2 - 1' | 6/7/2019 | 0.000060 U | 0.000071 U | 0.000080 U | 0.000090 U | 0.00015 U | 0.016 U | 0.000038 U | 0.000070 U | 0.0011 I | 0.00038 I | 0.000099 U | 0.000041 U | 0.000026 U | 0.000059 U | 0.000044 U | 0.000054 U | 0.000068 U | 0.000083 U | 0.000040 U | 0.00011 U | 0.0011 U | * | 0.0076 U |
| FC-GR2 - 2' | 6/7/2019 | 0.000071 U | 0.000085 U | 0.000095 U | 0.00011 U | 0.00018 U | 0.020 U | 0.000046 U | 0.000084 U | 0.00016 U | 0.000075 U | 0.000012 U | 0.000049 U | 0.000031 U | 0.000070 U | 0.000053 U | 0.000064 U | 0.000081 U | 0.000098 U | 0.000048 U | 0.00014 U | 0.0013 U | * | 0.0090 U |
| FC-I - 1' | 6/7/2019 | 0.000076 U | 0.000090 U | 0.00010 U | 0.00011 U | 0.00019 U | 0.021 U | 0.000048 U | 0.000089 U | 0.00017 U | 0.000079 U | 0.000013 U | 0.000052 U | 0.000033 U | 0.000074 U | 0.000056 U | 0.000068 U | 0.000086 U | 0.000010 U | 0.000051 U | 0.00014 U | 0.0014 U | * | 0.0096 U |
| FC-K - 1' | 6/7/2019 | 0.000061 U | 0.000072 U | 0.000081 U | 0.000091 U | 0.00015 U | 0.017 U | 0.000039 U | 0.000071 U | 0.00014 U | 0.000064 U | 0.000010 U | 0.000042 U | 0.000026 U | 0.000060 U | 0.000045 U | 0.000054 U | 0.000069 U | 0.000084 U | 0.000041 U | 0.00012 U | 0.0011 U | * | 0.0077 U |
| FC-K - 2' | 6/7/2019 | 0.000074 U | 0.000088 U | 0.000098 U | 0.00011 U | 0.00019 U | 0.020 U | 0.000047 U | 0.000086 U | 0.00017 U | 0.000077 U | 0.000012 U | 0.000051 U | 0.000032 U | 0.000072 U | 0.000055 U | 0.000066 U | 0.000084 U | 0.000010 U | 0.000049 U | 0.00014 U | 0.0013 U | * | 0.0093 U |
| FC-B - 1' | 6/7/2019 | 0.000062 U | 0.000073 U | 0.000082 U | 0.000092 U | 0.00016 U | 0.017 U | 0.000039 U | 0.000072 U | 0.00014 U | 0.000065 U | 0.000010 U | 0.000042 U | 0.000027 U | 0.000061 U | 0.000046 U | 0.000055 U | 0.000070 U | 0.000085 U | 0.000041 U | 0.00012 U | 0.0011 U | * | 0.0078 U |
| FC-B - 2' | 6/7/2019 | 0.000072 U | 0.000085 U | 0.000095 U | 0.00011 U | 0.00018 U | 0.020 U | 0.000046 U | 0.000084 U | 0.00016 U | 0.000075 U | 0.000012 U | 0.000049 U | 0.000031 U | 0.000070 U | 0.000053 U | 0.000064 U | 0.000082 U | 0.000099 U | 0.000048 U | 0.00014 U | 0.0013 U | * | 0.0091 U |
| FC-L1 - 1' | 6/7/2019 | 0.00024 U | 0.00028 U | 0.00032 U | 0.00036 U | 0.00061 U | 0.065 U | 0.00015 U | 0.00028 U | 0.00054 U | 0.00025 U | 0.00039 U | 0.00016 U | 0.00010 U | 0.00023 U | 0.00018 U | 0.00021 U | 0.00027 U | 0.00033 U | 0.00016 U | 0.00046 U | 0.0043 U | * | 0.030 U |
| Method Blank | Date Analyzed | | | | | | | | | | | | | | | | | | | | | | | |
| 2954263 | 6/13/2019 | 0.000057 U | 0.000068 U | 0.000076 U | 0.000086 U | 0.00015 U | 0.016 U | 0.000037 U | 0.000067 U | 0.00013 U | 0.000060 U | 0.000095 U | 0.000040 U | 0.000025 U | 0.000056 U | 0.000043 U | 0.000051 U | 0.000065 U | 0.000079 U | 0.000039 U | 0.00011 U | 0.0010 U | * | 0.073 U |
| Equipment Rinsate Blank | Date Sampled | | | | | | | | | | | | | | | | | | | | | | | |
| EB-1 | 6/7/2019 | 0.0014 U | 0.0020 U | 0.0076 U | 0.0046 U | 0.0021 U | 0.17 U | 0.0078 U | 0.0048 U | 0.0085 U | 0.0048 U | 0.0048 U | 0.0019 U | 0.0049 U | 0.0038 U | 0.0059 U | 0.0041 U | 0.0034 U | * | 0.0059 U | 0.0050 U | 0.0092 U | 0.012 U | 0.24 U |
| Method Blank | Date Analyzed | | | | | | | | | | | | | | | | | | | | | | | |
| 2953789 | 6/13/2019 | 0.0015 U | 0.0021 U | 0.0080 U | 0.0048 U | 0.0022 U | 0.18 U | 0.0082 U | 0.0050 U | 0.0089 U | 0.0050 U | 0.0050 U | 0.0020 U | 0.0051 U | 0.0040 U | 0.0062 U | 0.0043 U | 0.0036 U | * | 0.0062 U | 0.0052 U | 0.0096 U | 0.013 U | 0.25 U |

Note:

1: FDEP SCTL-R values are from Chapter 62-777, Florida Administrative Code, Soil Cleanup Target Levels for Direct Exposure Residential. These values were developed based on direct human contact (i.e., direct exposure), as detailed in the FDEP document: Technical report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, FAC, February 2014.

2. FDEP Leachability values are from Chapter 62-777, Florida Administrative Code, Soil Cleanup Target Levels for Leachability Based on Marine Surface Water Criteria (mg/kg)

Bold numbers exceed FDEP Leachability standard

| |
|--------------|
| 0.019 |
| 0.42 |

Shaded numbers exceed FDEP SCTL-R values

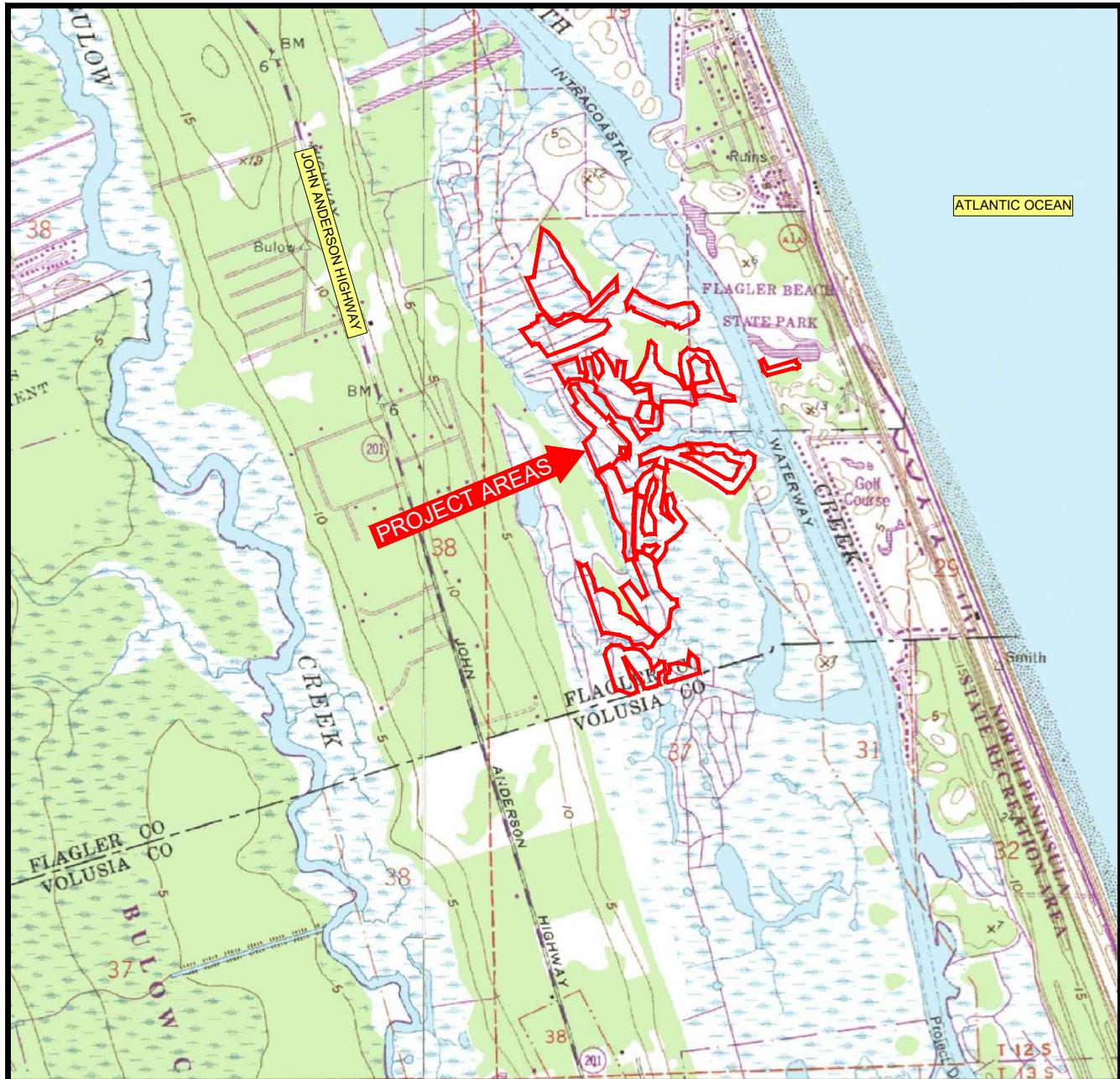
U - Indicates the compound was analyzed for but not detected.

J - Estimated Value. Analyte recovery in laboratory control sample was above QC limits, so reported result may be biased high.

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

* - Parameter not analyzed

EXHIBITS



SCALE 1"=2000'

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FLAGLER BEACH EAST, FLORIDA
1993
7.5 MINUTE SERIES (QUADRANGLE)

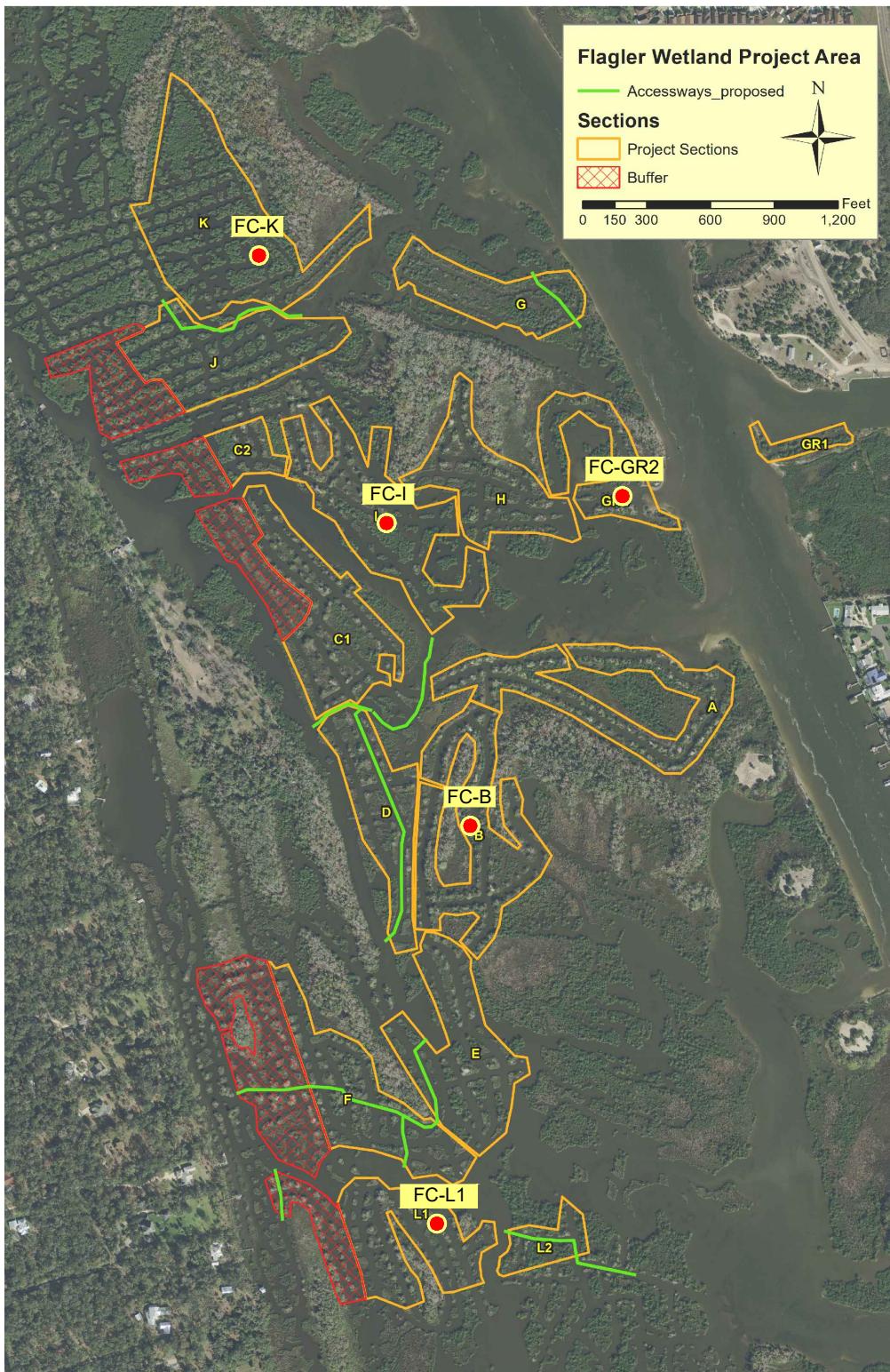


| | |
|--------------|----|
| Project Mgr: | DB |
| Drawn By: | MG |
| Checked By: | DB |
| Approved By: | DB |



TOPOGRAPHIC VICINITY MAP
ENVIRONMENTAL SITE ASSESSMENT
FLAGLER BEACH SALT MARSH PROJECT
FLAGLER BEACH
FLAGLER BEACH, FLAGLER COUNTY, FLORIDA

EXHIBIT
1



LEGEND

- APPROXIMATE LOCATION OF SOIL BORING

| | |
|--------------|----------|
| Project Mgr: | DB |
| Drawn By: | MG |
| Checked By: | DB |
| Approved By: | DB |
| Project No. | H1197384 |
| Scale: | AS SHOWN |
| File No. | H1197384 |
| Date: | 6-14-19 |



SOIL BORING LOCATION MAP
ENVIRONMENTAL SITE ASSESSMENT
FLAGLER BEACH SALT MARSH PROJECT
FLAGLER BEACH
FLAGLER BEACH, FLAGLER COUNTY, FLORIDA

EXHIBIT
2

APPENDIX A

PACE ANALYTICAL REPORT AND CHAIN-OF-CUSTODY RECORD

June 20, 2019

Mr. David Beerbower
Terracon Consulting
1675 Lee Road
Winter Park, FL 32789

RE: Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

Dear Mr. Beerbower:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Lori Palmer
lori.palmer@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Igor Karimov, Terracon Consulting Engineers
Mr. John Malkowski, Terracon Consulting Engineers



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

Ormond Beach Certification IDs

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 35473429001 | FC-GR2-1' | Solid | 06/07/19 07:54 | 06/07/19 12:22 |
| 35473429002 | FC-GR2-2' | Solid | 06/07/19 07:56 | 06/07/19 12:22 |
| 35473429003 | FC-I-1' | Solid | 06/07/19 08:14 | 06/07/19 12:22 |
| 35473429004 | FC-K-1' | Solid | 06/07/19 08:53 | 06/07/19 12:22 |
| 35473429005 | FC-K-2' | Solid | 06/07/19 08:56 | 06/07/19 12:22 |
| 35473429006 | FCB-1' | Solid | 06/07/19 09:53 | 06/07/19 12:22 |
| 35473429007 | FC-B-2' | Solid | 06/07/19 09:50 | 06/07/19 12:22 |
| 35473429008 | FC-L1-1' | Solid | 06/07/19 10:34 | 06/07/19 12:22 |
| 35473429009 | EB-1 | Water | 06/07/19 10:30 | 06/07/19 12:22 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|---------------|----------|-------------------|
| 35473429001 | FC-GR2-1' | EPA 8081 | TCB | 24 |
| | | ASTM D2974-87 | CLT | 1 |
| 35473429002 | FC-GR2-2' | EPA 8081 | TCB | 24 |
| | | ASTM D2974-87 | CLT | 1 |
| 35473429003 | FC-I-1' | EPA 8081 | TCB | 24 |
| | | ASTM D2974-87 | CLT | 1 |
| 35473429004 | FC-K-1' | EPA 8081 | TCB | 24 |
| | | ASTM D2974-87 | CLT | 1 |
| 35473429005 | FC-K-2' | EPA 8081 | TCB | 24 |
| | | ASTM D2974-87 | CLT | 1 |
| 35473429006 | FCB-1' | EPA 8081 | TCB | 24 |
| | | ASTM D2974-87 | CLT | 1 |
| 35473429007 | FC-B-2' | EPA 8081 | TCB | 24 |
| | | ASTM D2974-87 | CLT | 1 |
| 35473429008 | FC-L1-1' | EPA 8081 | TCB | 24 |
| | | ASTM D2974-87 | CLT | 1 |
| 35473429009 | EB-1 | EPA 8081 | TCB | 24 |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

| Lab Sample ID | Client Sample ID | | | | | | |
|--------------------|------------------|-----------|-------|--------------|----------------|------------|--|
| Method | Parameters | Result | Units | Report Limit | Analyzed | Qualifiers | |
| 35473429001 | FC-GR2-1' | | | | | | |
| EPA 8081 | 4,4'-DDD | 0.0011 I | mg/kg | 0.0018 | 06/13/19 08:48 | | |
| EPA 8081 | 4,4'-DDE | 0.00038 I | mg/kg | 0.0018 | 06/13/19 08:48 | | |
| ASTM D2974-87 | Percent Moisture | 3.4 | % | 0.10 | 06/10/19 11:38 | | |
| 35473429002 | FC-GR2-2' | | | | | | |
| ASTM D2974-87 | Percent Moisture | 19.9 | % | 0.10 | 06/10/19 11:38 | | |
| 35473429003 | FC-I-1' | | | | | | |
| ASTM D2974-87 | Percent Moisture | 23.5 | % | 0.10 | 06/10/19 11:38 | | |
| 35473429004 | FC-K-1' | | | | | | |
| ASTM D2974-87 | Percent Moisture | 5.4 | % | 0.10 | 06/10/19 11:38 | | |
| 35473429005 | FC-K-2' | | | | | | |
| ASTM D2974-87 | Percent Moisture | 21.6 | % | 0.10 | 06/10/19 11:38 | | |
| 35473429006 | FCB-1' | | | | | | |
| ASTM D2974-87 | Percent Moisture | 6.3 | % | 0.10 | 06/10/19 11:39 | | |
| 35473429007 | FC-B-2' | | | | | | |
| ASTM D2974-87 | Percent Moisture | 20.1 | % | 0.10 | 06/10/19 11:39 | | |
| 35473429008 | FC-L1-1' | | | | | | |
| ASTM D2974-87 | Percent Moisture | 28.3 | % | 0.10 | 06/10/19 11:39 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

Sample: FC-GR2-1' Lab ID: 35473429001 Collected: 06/07/19 07:54 Received: 06/07/19 12:22 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|--|-------|--------|----------|----|----------------|----------------|----------------|------|
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3546 | | | | | | | | |
| Aldrin | 0.000060 U | mg/kg | 0.0018 | 0.000060 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 309-00-2 | |
| alpha-BHC | 0.000071 U | mg/kg | 0.0018 | 0.000071 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 319-84-6 | |
| beta-BHC | 0.000080 U | mg/kg | 0.0018 | 0.000080 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 319-85-7 | |
| delta-BHC | 0.000090 U | mg/kg | 0.0018 | 0.000090 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 319-86-8 | |
| gamma-BHC (Lindane) | 0.00015 U | mg/kg | 0.0018 | 0.00015 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 58-89-9 | |
| Chlordane (Technical) | 0.016 U | mg/kg | 0.018 | 0.016 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 57-74-9 | |
| alpha-Chlordane | 0.000038 U | mg/kg | 0.0018 | 0.000038 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 5103-71-9 | |
| gamma-Chlordane | 0.000070 U | mg/kg | 0.0018 | 0.000070 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 5103-74-2 | |
| 4,4'-DDD | 0.0011 I | mg/kg | 0.0018 | 0.00014 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 72-54-8 | |
| 4,4'-DDE | 0.00038 I | mg/kg | 0.0018 | 0.000063 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 72-55-9 | |
| 4,4'-DDT | 0.000099 U | mg/kg | 0.0018 | 0.000099 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 50-29-3 | |
| Dieldrin | 0.000041 U | mg/kg | 0.0018 | 0.000041 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 60-57-1 | |
| Endosulfan I | 0.000026 U | mg/kg | 0.0018 | 0.000026 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 959-98-8 | |
| Endosulfan II | 0.000059 U | mg/kg | 0.0018 | 0.000059 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 33213-65-9 | |
| Endosulfan sulfate | 0.000044 U | mg/kg | 0.0018 | 0.000044 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 1031-07-8 | |
| Endrin | 0.000054 U | mg/kg | 0.0018 | 0.000054 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 72-20-8 | |
| Endrin aldehyde | 0.000068 U | mg/kg | 0.0034 | 0.000068 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 7421-93-4 | |
| Endrin ketone | 0.000083 U | mg/kg | 0.0018 | 0.000083 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 53494-70-5 | |
| Heptachlor | 0.000040 U | mg/kg | 0.0018 | 0.000040 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 76-44-8 | |
| Heptachlor epoxide | 0.00011 U | mg/kg | 0.0018 | 0.00011 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 1024-57-3 | |
| Methoxychlor | 0.0011 U | mg/kg | 0.0018 | 0.0011 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 72-43-5 | |
| Toxaphene | 0.0076 U | mg/kg | 0.018 | 0.0076 | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 8001-35-2 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 80 | % | 53-140 | | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 877-09-8 | |
| Decachlorobiphenyl (S) | 80 | % | 43-157 | | 1 | 06/11/19 09:04 | 06/13/19 08:48 | 2051-24-3 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 3.4 | % | 0.10 | 0.10 | 1 | | | 06/10/19 11:38 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

Sample: FC-GR2-2' Lab ID: 35473429002 Collected: 06/07/19 07:56 Received: 06/07/19 12:22 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|--|-------|--------|----------|----|----------------|----------------|----------------|-------|
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3546 | | | | | | | | |
| Aldrin | 0.000071 U | mg/kg | 0.0021 | 0.000071 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 309-00-2 | |
| alpha-BHC | 0.000085 U | mg/kg | 0.0021 | 0.000085 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 319-84-6 | |
| beta-BHC | 0.000095 U | mg/kg | 0.0021 | 0.000095 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 319-85-7 | |
| delta-BHC | 0.00011 U | mg/kg | 0.0021 | 0.00011 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 319-86-8 | |
| gamma-BHC (Lindane) | 0.00018 U | mg/kg | 0.0021 | 0.00018 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 58-89-9 | |
| Chlordane (Technical) | 0.020 U | mg/kg | 0.021 | 0.020 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 57-74-9 | |
| alpha-Chlordane | 0.000046 U | mg/kg | 0.0021 | 0.000046 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 5103-71-9 | |
| gamma-Chlordane | 0.000084 U | mg/kg | 0.0021 | 0.000084 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 5103-74-2 | |
| 4,4'-DDD | 0.00016 U | mg/kg | 0.0021 | 0.00016 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 72-54-8 | |
| 4,4'-DDE | 0.000075 U | mg/kg | 0.0021 | 0.000075 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 72-55-9 | |
| 4,4'-DDT | 0.00012 U | mg/kg | 0.0021 | 0.00012 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 50-29-3 | |
| Dieldrin | 0.000049 U | mg/kg | 0.0021 | 0.000049 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 60-57-1 | |
| Endosulfan I | 0.000031 U | mg/kg | 0.0021 | 0.000031 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 959-98-8 | |
| Endosulfan II | 0.000070 U | mg/kg | 0.0021 | 0.000070 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 33213-65-9 | CH,CU |
| Endosulfan sulfate | 0.000053 U | mg/kg | 0.0021 | 0.000053 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 1031-07-8 | CH,CU |
| Endrin | 0.000064 U | mg/kg | 0.0021 | 0.000064 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 72-20-8 | |
| Endrin aldehyde | 0.000081 U | mg/kg | 0.0041 | 0.000081 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 7421-93-4 | |
| Endrin ketone | 0.000098 U | mg/kg | 0.0021 | 0.000098 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 53494-70-5 | CH,CU |
| Heptachlor | 0.000048 U | mg/kg | 0.0021 | 0.000048 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 76-44-8 | |
| Heptachlor epoxide | 0.00014 U | mg/kg | 0.0021 | 0.00014 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 1024-57-3 | |
| Methoxychlor | 0.0013 U | mg/kg | 0.0021 | 0.0013 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 72-43-5 | CH,CU |
| Toxaphene | 0.0090 U | mg/kg | 0.021 | 0.0090 | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 8001-35-2 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 92 | % | 53-140 | | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 877-09-8 | |
| Decachlorobiphenyl (S) | 93 | % | 43-157 | | 1 | 06/11/19 09:00 | 06/19/19 07:38 | 2051-24-3 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 19.9 | % | 0.10 | 0.10 | 1 | | | 06/10/19 11:38 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

Sample: FC-I-1 Lab ID: 35473429003 Collected: 06/07/19 08:14 Received: 06/07/19 12:22 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|--|-------|--------|----------|----|----------------|----------------|----------------|------|
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3546 | | | | | | | | |
| Aldrin | 0.000076 U | mg/kg | 0.0022 | 0.000076 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 309-00-2 | |
| alpha-BHC | 0.000090 U | mg/kg | 0.0022 | 0.000090 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 319-84-6 | |
| beta-BHC | 0.00010 U | mg/kg | 0.0022 | 0.00010 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 319-85-7 | |
| delta-BHC | 0.00011 U | mg/kg | 0.0022 | 0.00011 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 319-86-8 | |
| gamma-BHC (Lindane) | 0.00019 U | mg/kg | 0.0022 | 0.00019 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 58-89-9 | |
| Chlordane (Technical) | 0.021 U | mg/kg | 0.022 | 0.021 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 57-74-9 | |
| alpha-Chlordane | 0.000048 U | mg/kg | 0.0022 | 0.000048 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 5103-71-9 | |
| gamma-Chlordane | 0.000089 U | mg/kg | 0.0022 | 0.000089 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 5103-74-2 | |
| 4,4'-DDD | 0.00017 U | mg/kg | 0.0022 | 0.00017 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 72-54-8 | |
| 4,4'-DDE | 0.000079 U | mg/kg | 0.0022 | 0.000079 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 72-55-9 | |
| 4,4'-DDT | 0.00013 U | mg/kg | 0.0022 | 0.00013 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 50-29-3 | |
| Dieldrin | 0.000052 U | mg/kg | 0.0022 | 0.000052 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 60-57-1 | |
| Endosulfan I | 0.000033 U | mg/kg | 0.0022 | 0.000033 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 959-98-8 | |
| Endosulfan II | 0.000074 U | mg/kg | 0.0022 | 0.000074 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 33213-65-9 | CU |
| Endosulfan sulfate | 0.000056 U | mg/kg | 0.0022 | 0.000056 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 1031-07-8 | CU |
| Endrin | 0.000068 U | mg/kg | 0.0022 | 0.000068 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 72-20-8 | |
| Endrin aldehyde | 0.000086 U | mg/kg | 0.0043 | 0.000086 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 7421-93-4 | |
| Endrin ketone | 0.00010 U | mg/kg | 0.0022 | 0.00010 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 53494-70-5 | CU |
| Heptachlor | 0.000051 U | mg/kg | 0.0022 | 0.000051 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 76-44-8 | |
| Heptachlor epoxide | 0.00014 U | mg/kg | 0.0022 | 0.00014 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 1024-57-3 | |
| Methoxychlor | 0.0014 U | mg/kg | 0.0022 | 0.0014 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 72-43-5 | CU |
| Toxaphene | 0.0096 U | mg/kg | 0.022 | 0.0096 | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 8001-35-2 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 107 | % | 53-140 | | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 877-09-8 | |
| Decachlorobiphenyl (S) | 89 | % | 43-157 | | 1 | 06/11/19 09:00 | 06/19/19 08:36 | 2051-24-3 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 23.5 | % | 0.10 | 0.10 | 1 | | | 06/10/19 11:38 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

Sample: FC-K-1' Lab ID: 35473429004 Collected: 06/07/19 08:53 Received: 06/07/19 12:22 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|--|-------|--------|----------|----|----------------|----------------|----------------|------|
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3546 | | | | | | | | |
| Aldrin | 0.000061 U | mg/kg | 0.0018 | 0.000061 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 309-00-2 | |
| alpha-BHC | 0.000072 U | mg/kg | 0.0018 | 0.000072 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 319-84-6 | |
| beta-BHC | 0.000081 U | mg/kg | 0.0018 | 0.000081 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 319-85-7 | |
| delta-BHC | 0.000091 U | mg/kg | 0.0018 | 0.000091 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 319-86-8 | |
| gamma-BHC (Lindane) | 0.00015 U | mg/kg | 0.0018 | 0.00015 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 58-89-9 | |
| Chlordane (Technical) | 0.017 U | mg/kg | 0.018 | 0.017 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 57-74-9 | |
| alpha-Chlordane | 0.000039 U | mg/kg | 0.0018 | 0.000039 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 5103-71-9 | |
| gamma-Chlordane | 0.000071 U | mg/kg | 0.0018 | 0.000071 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 5103-74-2 | |
| 4,4'-DDD | 0.00014 U | mg/kg | 0.0018 | 0.00014 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 72-54-8 | |
| 4,4'-DDE | 0.000064 U | mg/kg | 0.0018 | 0.000064 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 72-55-9 | |
| 4,4'-DDT | 0.00010 U | mg/kg | 0.0018 | 0.00010 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 50-29-3 | |
| Dieldrin | 0.000042 U | mg/kg | 0.0018 | 0.000042 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 60-57-1 | |
| Endosulfan I | 0.000026 U | mg/kg | 0.0018 | 0.000026 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 959-98-8 | |
| Endosulfan II | 0.000060 U | mg/kg | 0.0018 | 0.000060 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 33213-65-9 | CU |
| Endosulfan sulfate | 0.000045 U | mg/kg | 0.0018 | 0.000045 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 1031-07-8 | CU |
| Endrin | 0.000054 U | mg/kg | 0.0018 | 0.000054 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 72-20-8 | |
| Endrin aldehyde | 0.000069 U | mg/kg | 0.0035 | 0.000069 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 7421-93-4 | |
| Endrin ketone | 0.000084 U | mg/kg | 0.0018 | 0.000084 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 53494-70-5 | CU |
| Heptachlor | 0.000041 U | mg/kg | 0.0018 | 0.000041 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 76-44-8 | |
| Heptachlor epoxide | 0.00012 U | mg/kg | 0.0018 | 0.00012 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 1024-57-3 | |
| Methoxychlor | 0.0011 U | mg/kg | 0.0018 | 0.0011 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 72-43-5 | CU |
| Toxaphene | 0.0077 U | mg/kg | 0.018 | 0.0077 | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 8001-35-2 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 67 | % | 53-140 | | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 877-09-8 | |
| Decachlorobiphenyl (S) | 87 | % | 43-157 | | 1 | 06/11/19 09:00 | 06/19/19 08:55 | 2051-24-3 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 5.4 | % | 0.10 | 0.10 | 1 | | | 06/10/19 11:38 | |

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

Sample: FC-K-2' Lab ID: 35473429005 Collected: 06/07/19 08:56 Received: 06/07/19 12:22 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|--|-------|--------|----------|----|----------------|----------------|----------------|------|
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3546 | | | | | | | | |
| Aldrin | 0.000074 U | mg/kg | 0.0022 | 0.000074 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 309-00-2 | |
| alpha-BHC | 0.000088 U | mg/kg | 0.0022 | 0.000088 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 319-84-6 | |
| beta-BHC | 0.000098 U | mg/kg | 0.0022 | 0.000098 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 319-85-7 | |
| delta-BHC | 0.00011 U | mg/kg | 0.0022 | 0.00011 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 319-86-8 | |
| gamma-BHC (Lindane) | 0.00019 U | mg/kg | 0.0022 | 0.00019 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 58-89-9 | |
| Chlordane (Technical) | 0.020 U | mg/kg | 0.022 | 0.020 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 57-74-9 | |
| alpha-Chlordane | 0.000047 U | mg/kg | 0.0022 | 0.000047 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 5103-71-9 | |
| gamma-Chlordane | 0.000086 U | mg/kg | 0.0022 | 0.000086 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 5103-74-2 | |
| 4,4'-DDD | 0.00017 U | mg/kg | 0.0022 | 0.00017 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 72-54-8 | |
| 4,4'-DDE | 0.000077 U | mg/kg | 0.0022 | 0.000077 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 72-55-9 | |
| 4,4'-DDT | 0.00012 U | mg/kg | 0.0022 | 0.00012 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 50-29-3 | |
| Dieldrin | 0.000051 U | mg/kg | 0.0022 | 0.000051 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 60-57-1 | |
| Endosulfan I | 0.000032 U | mg/kg | 0.0022 | 0.000032 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 959-98-8 | |
| Endosulfan II | 0.000072 U | mg/kg | 0.0022 | 0.000072 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 33213-65-9 | CU |
| Endosulfan sulfate | 0.000055 U | mg/kg | 0.0022 | 0.000055 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 1031-07-8 | CU |
| Endrin | 0.000066 U | mg/kg | 0.0022 | 0.000066 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 72-20-8 | |
| Endrin aldehyde | 0.000084 U | mg/kg | 0.0042 | 0.000084 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 7421-93-4 | |
| Endrin ketone | 0.00010 U | mg/kg | 0.0022 | 0.00010 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 53494-70-5 | CU |
| Heptachlor | 0.000049 U | mg/kg | 0.0022 | 0.000049 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 76-44-8 | |
| Heptachlor epoxide | 0.00014 U | mg/kg | 0.0022 | 0.00014 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 1024-57-3 | |
| Methoxychlor | 0.0013 U | mg/kg | 0.0022 | 0.0013 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 72-43-5 | CU |
| Toxaphene | 0.0093 U | mg/kg | 0.022 | 0.0093 | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 8001-35-2 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 93 | % | 53-140 | | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 877-09-8 | |
| Decachlorobiphenyl (S) | 100 | % | 43-157 | | 1 | 06/11/19 09:00 | 06/19/19 09:15 | 2051-24-3 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 21.6 | % | 0.10 | 0.10 | 1 | | | 06/10/19 11:38 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

Sample: FCB-1' Lab ID: 35473429006 Collected: 06/07/19 09:53 Received: 06/07/19 12:22 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|--|-------|--------|----------|----|----------------|----------------|----------------|------|
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3546 | | | | | | | | |
| Aldrin | 0.000062 U | mg/kg | 0.0018 | 0.000062 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 309-00-2 | |
| alpha-BHC | 0.000073 U | mg/kg | 0.0018 | 0.000073 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 319-84-6 | |
| beta-BHC | 0.000082 U | mg/kg | 0.0018 | 0.000082 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 319-85-7 | |
| delta-BHC | 0.000092 U | mg/kg | 0.0018 | 0.000092 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 319-86-8 | |
| gamma-BHC (Lindane) | 0.00016 U | mg/kg | 0.0018 | 0.00016 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 58-89-9 | |
| Chlordane (Technical) | 0.017 U | mg/kg | 0.018 | 0.017 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 57-74-9 | |
| alpha-Chlordane | 0.000039 U | mg/kg | 0.0018 | 0.000039 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 5103-71-9 | |
| gamma-Chlordane | 0.000072 U | mg/kg | 0.0018 | 0.000072 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 5103-74-2 | |
| 4,4'-DDD | 0.00014 U | mg/kg | 0.0018 | 0.00014 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 72-54-8 | |
| 4,4'-DDE | 0.000065 U | mg/kg | 0.0018 | 0.000065 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 72-55-9 | |
| 4,4'-DDT | 0.00010 U | mg/kg | 0.0018 | 0.00010 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 50-29-3 | |
| Dieldrin | 0.000042 U | mg/kg | 0.0018 | 0.000042 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 60-57-1 | |
| Endosulfan I | 0.000027 U | mg/kg | 0.0018 | 0.000027 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 959-98-8 | |
| Endosulfan II | 0.000061 U | mg/kg | 0.0018 | 0.000061 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 33213-65-9 | CU |
| Endosulfan sulfate | 0.000046 U | mg/kg | 0.0018 | 0.000046 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 1031-07-8 | CU |
| Endrin | 0.000055 U | mg/kg | 0.0018 | 0.000055 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 72-20-8 | |
| Endrin aldehyde | 0.000070 U | mg/kg | 0.0035 | 0.000070 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 7421-93-4 | |
| Endrin ketone | 0.000085 U | mg/kg | 0.0018 | 0.000085 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 53494-70-5 | CU |
| Heptachlor | 0.000041 U | mg/kg | 0.0018 | 0.000041 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 76-44-8 | |
| Heptachlor epoxide | 0.00012 U | mg/kg | 0.0018 | 0.00012 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 1024-57-3 | |
| Methoxychlor | 0.0011 U | mg/kg | 0.0018 | 0.0011 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 72-43-5 | CU |
| Toxaphene | 0.0078 U | mg/kg | 0.018 | 0.0078 | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 8001-35-2 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 92 | % | 53-140 | | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 877-09-8 | |
| Decachlorobiphenyl (S) | 103 | % | 43-157 | | 1 | 06/11/19 09:00 | 06/19/19 09:34 | 2051-24-3 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 6.3 | % | 0.10 | 0.10 | 1 | | | 06/10/19 11:39 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

Sample: FC-B-2' Lab ID: 35473429007 Collected: 06/07/19 09:50 Received: 06/07/19 12:22 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|--|-------|--------|----------|----|----------------|----------------|----------------|------|
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3546 | | | | | | | | |
| Aldrin | 0.000072 U | mg/kg | 0.0021 | 0.000072 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 309-00-2 | |
| alpha-BHC | 0.000085 U | mg/kg | 0.0021 | 0.000085 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 319-84-6 | |
| beta-BHC | 0.000095 U | mg/kg | 0.0021 | 0.000095 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 319-85-7 | |
| delta-BHC | 0.00011 U | mg/kg | 0.0021 | 0.00011 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 319-86-8 | |
| gamma-BHC (Lindane) | 0.00018 U | mg/kg | 0.0021 | 0.00018 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 58-89-9 | |
| Chlordane (Technical) | 0.020 U | mg/kg | 0.021 | 0.020 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 57-74-9 | |
| alpha-Chlordane | 0.000046 U | mg/kg | 0.0021 | 0.000046 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 5103-71-9 | |
| gamma-Chlordane | 0.000084 U | mg/kg | 0.0021 | 0.000084 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 5103-74-2 | |
| 4,4'-DDD | 0.00016 U | mg/kg | 0.0021 | 0.00016 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 72-54-8 | |
| 4,4'-DDE | 0.000075 U | mg/kg | 0.0021 | 0.000075 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 72-55-9 | |
| 4,4'-DDT | 0.00012 U | mg/kg | 0.0021 | 0.00012 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 50-29-3 | |
| Dieldrin | 0.000049 U | mg/kg | 0.0021 | 0.000049 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 60-57-1 | |
| Endosulfan I | 0.000031 U | mg/kg | 0.0021 | 0.000031 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 959-98-8 | |
| Endosulfan II | 0.000070 U | mg/kg | 0.0021 | 0.000070 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 33213-65-9 | CU |
| Endosulfan sulfate | 0.000053 U | mg/kg | 0.0021 | 0.000053 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 1031-07-8 | CU |
| Endrin | 0.000064 U | mg/kg | 0.0021 | 0.000064 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 72-20-8 | |
| Endrin aldehyde | 0.000082 U | mg/kg | 0.0041 | 0.000082 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 7421-93-4 | |
| Endrin ketone | 0.000099 U | mg/kg | 0.0021 | 0.000099 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 53494-70-5 | CU |
| Heptachlor | 0.000048 U | mg/kg | 0.0021 | 0.000048 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 76-44-8 | |
| Heptachlor epoxide | 0.00014 U | mg/kg | 0.0021 | 0.00014 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 1024-57-3 | |
| Methoxychlor | 0.0013 U | mg/kg | 0.0021 | 0.0013 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 72-43-5 | CU |
| Toxaphene | 0.0091 U | mg/kg | 0.021 | 0.0091 | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 8001-35-2 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 75 | % | 53-140 | | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 877-09-8 | |
| Decachlorobiphenyl (S) | 72 | % | 43-157 | | 1 | 06/11/19 09:00 | 06/19/19 09:54 | 2051-24-3 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 20.1 | % | 0.10 | 0.10 | 1 | | | 06/10/19 11:39 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

Sample: FC-L1-1' Lab ID: 35473429008 Collected: 06/07/19 10:34 Received: 06/07/19 12:22 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|--|-------|--------|---------|----|----------------|----------------|----------------|-------|
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3546 | | | | | | | | |
| Aldrin | 0.00024 U | mg/kg | 0.0070 | 0.00024 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 309-00-2 | P1 |
| alpha-BHC | 0.00028 U | mg/kg | 0.0070 | 0.00028 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 319-84-6 | P1 |
| beta-BHC | 0.00032 U | mg/kg | 0.0070 | 0.00032 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 319-85-7 | P1 |
| delta-BHC | 0.00036 U | mg/kg | 0.0070 | 0.00036 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 319-86-8 | P1 |
| gamma-BHC (Lindane) | 0.00061 U | mg/kg | 0.0070 | 0.00061 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 58-89-9 | P1 |
| Chlordane (Technical) | 0.065 U | mg/kg | 0.070 | 0.065 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 57-74-9 | P1 |
| alpha-Chlordane | 0.00015 U | mg/kg | 0.0070 | 0.00015 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 5103-71-9 | P1 |
| gamma-Chlordane | 0.00028 U | mg/kg | 0.0070 | 0.00028 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 5103-74-2 | P1 |
| 4,4'-DDD | 0.00054 U | mg/kg | 0.0070 | 0.00054 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 72-54-8 | P1 |
| 4,4'-DDE | 0.00025 U | mg/kg | 0.0070 | 0.00025 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 72-55-9 | P1 |
| 4,4'-DDT | 0.00039 U | mg/kg | 0.0070 | 0.00039 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 50-29-3 | P1 |
| Dieldrin | 0.00016 U | mg/kg | 0.0070 | 0.00016 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 60-57-1 | P1 |
| Endosulfan I | 0.00010 U | mg/kg | 0.0070 | 0.00010 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 959-98-8 | P1 |
| Endosulfan II | 0.00023 U | mg/kg | 0.0070 | 0.00023 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 33213-65-9 | CU,P1 |
| Endosulfan sulfate | 0.00018 U | mg/kg | 0.0070 | 0.00018 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 1031-07-8 | CU,P1 |
| Endrin | 0.00021 U | mg/kg | 0.0070 | 0.00021 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 72-20-8 | P1 |
| Endrin aldehyde | 0.00027 U | mg/kg | 0.014 | 0.00027 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 7421-93-4 | P1 |
| Endrin ketone | 0.00033 U | mg/kg | 0.0070 | 0.00033 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 53494-70-5 | CU,P1 |
| Heptachlor | 0.00016 U | mg/kg | 0.0070 | 0.00016 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 76-44-8 | P1 |
| Heptachlor epoxide | 0.00046 U | mg/kg | 0.0070 | 0.00046 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 1024-57-3 | P1 |
| Methoxychlor | 0.0043 U | mg/kg | 0.0070 | 0.0043 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 72-43-5 | CU,P1 |
| Toxaphene | 0.030 U | mg/kg | 0.070 | 0.030 | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 8001-35-2 | P1 |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 125 | % | 53-140 | | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 877-09-8 | |
| Decachlorobiphenyl (S) | 113 | % | 43-157 | | 1 | 06/11/19 09:00 | 06/19/19 10:13 | 2051-24-3 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 28.3 | % | 0.10 | 0.10 | 1 | | | 06/10/19 11:39 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

| Sample: EB-1 | Lab ID: 35473429009 | Collected: 06/07/19 10:30 | Received: 06/07/19 12:22 | Matrix: Water | | | | | |
|----------------------------|--|---------------------------|--------------------------|---------------|----|----------------|----------------|------------|--------------|
| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 8081 GCS Pesticides | Analytical Method: EPA 8081 Preparation Method: EPA 3510 | | | | | | | | |
| Aldrin | 0.0014 U | ug/L | 0.0096 | 0.0014 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 309-00-2 | |
| alpha-BHC | 0.0020 U | ug/L | 0.0096 | 0.0020 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 319-84-6 | |
| beta-BHC | 0.0076 U | ug/L | 0.0096 | 0.0076 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 319-85-7 | |
| delta-BHC | 0.0046 U | ug/L | 0.0096 | 0.0046 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 319-86-8 | |
| gamma-BHC (Lindane) | 0.0021 U | ug/L | 0.0096 | 0.0021 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 58-89-9 | |
| Chlordane (Technical) | 0.17 U | ug/L | 0.48 | 0.17 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 57-74-9 | |
| alpha-Chlordane | 0.0078 U | ug/L | 0.0096 | 0.0078 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 5103-71-9 | |
| gamma-Chlordane | 0.0048 U | ug/L | 0.0096 | 0.0048 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 5103-74-2 | |
| 4,4'-DDD | 0.0085 U | ug/L | 0.0096 | 0.0085 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 72-54-8 | |
| 4,4'-DDE | 0.0048 U | ug/L | 0.0096 | 0.0048 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 72-55-9 | |
| 4,4'-DDT | 0.0048 U | ug/L | 0.0096 | 0.0048 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 50-29-3 | |
| Dieldrin | 0.0019 U | ug/L | 0.0096 | 0.0019 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 60-57-1 | |
| Endosulfan I | 0.0049 U | ug/L | 0.0096 | 0.0049 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 959-98-8 | |
| Endosulfan II | 0.0038 U | ug/L | 0.0096 | 0.0038 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 33213-65-9 | |
| Endosulfan sulfate | 0.0059 U | ug/L | 0.096 | 0.0059 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 1031-07-8 | |
| Endrin | 0.0041 U | ug/L | 0.0096 | 0.0041 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 72-20-8 | |
| Endrin aldehyde | 0.0034 U | ug/L | 0.096 | 0.0034 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 7421-93-4 | CU, J(L1) |
| Heptachlor | 0.0059 U | ug/L | 0.0096 | 0.0059 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 76-44-8 | |
| Heptachlor epoxide | 0.0050 U | ug/L | 0.0096 | 0.0050 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 1024-57-3 | |
| Methoxychlor | 0.0092 U | ug/L | 0.0096 | 0.0092 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 72-43-5 | |
| Mirex | 0.012 U | ug/L | 0.096 | 0.012 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 2385-85-5 | |
| Toxaphene | 0.24 U | ug/L | 0.48 | 0.24 | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 8001-35-2 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 85 | % | 27-124 | | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 877-09-8 | |
| Decachlorobiphenyl (S) | 53 | % | 10-132 | | 1 | 06/11/19 08:43 | 06/14/19 01:52 | 2051-24-3 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

| | | | |
|-------------------------|-------------|-----------------------|---------------------|
| QC Batch: | 545317 | Analysis Method: | EPA 8081 |
| QC Batch Method: | EPA 3546 | Analysis Description: | 8081 GCS Pesticides |
| Associated Lab Samples: | 35473429001 | | |

METHOD BLANK: 2954263 Matrix: Solid

Associated Lab Samples: 35473429001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------|----------------|------------|
| 4,4'-DDD | mg/kg | 0.00013 U | 0.0017 | 0.00013 | 06/13/19 01:14 | |
| 4,4'-DDE | mg/kg | 0.000060 U | 0.0017 | 0.000060 | 06/13/19 01:14 | |
| 4,4'-DDT | mg/kg | 0.000095 U | 0.0017 | 0.000095 | 06/13/19 01:14 | |
| Aldrin | mg/kg | 0.000057 U | 0.0017 | 0.000057 | 06/13/19 01:14 | |
| alpha-BHC | mg/kg | 0.000068 U | 0.0017 | 0.000068 | 06/13/19 01:14 | |
| alpha-Chlordane | mg/kg | 0.000037 U | 0.0017 | 0.000037 | 06/13/19 01:14 | |
| beta-BHC | mg/kg | 0.000076 U | 0.0017 | 0.000076 | 06/13/19 01:14 | |
| Chlordane (Technical) | mg/kg | 0.016 U | 0.017 | 0.016 | 06/13/19 01:14 | |
| delta-BHC | mg/kg | 0.000086 U | 0.0017 | 0.000086 | 06/13/19 01:14 | |
| Dieldrin | mg/kg | 0.000040 U | 0.0017 | 0.000040 | 06/13/19 01:14 | |
| Endosulfan I | mg/kg | 0.000025 U | 0.0017 | 0.000025 | 06/13/19 01:14 | |
| Endosulfan II | mg/kg | 0.000056 U | 0.0017 | 0.000056 | 06/13/19 01:14 | |
| Endosulfan sulfate | mg/kg | 0.000043 U | 0.0017 | 0.000043 | 06/13/19 01:14 | |
| Endrin | mg/kg | 0.000051 U | 0.0017 | 0.000051 | 06/13/19 01:14 | |
| Endrin aldehyde | mg/kg | 0.000065 U | 0.0033 | 0.000065 | 06/13/19 01:14 | |
| Endrin ketone | mg/kg | 0.000079 U | 0.0017 | 0.000079 | 06/13/19 01:14 | |
| gamma-BHC (Lindane) | mg/kg | 0.00015 U | 0.0017 | 0.00015 | 06/13/19 01:14 | |
| gamma-Chlordane | mg/kg | 0.000067 U | 0.0017 | 0.000067 | 06/13/19 01:14 | |
| Heptachlor | mg/kg | 0.000039 U | 0.0017 | 0.000039 | 06/13/19 01:14 | |
| Heptachlor epoxide | mg/kg | 0.00011 U | 0.0017 | 0.00011 | 06/13/19 01:14 | |
| Methoxychlor | mg/kg | 0.0010 U | 0.0017 | 0.0010 | 06/13/19 01:14 | |
| Toxaphene | mg/kg | 0.0073 U | 0.017 | 0.0073 | 06/13/19 01:14 | |
| Decachlorobiphenyl (S) | % | 98 | 43-157 | | 06/13/19 01:14 | |
| Tetrachloro-m-xylene (S) | % | 100 | 53-140 | | 06/13/19 01:14 | |

LABORATORY CONTROL SAMPLE: 2954264

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------|-------|-------------|------------|-----------|--------------|------------|
| 4,4'-DDD | mg/kg | 0.016 | 0.016 | 100 | 62-144 | |
| 4,4'-DDE | mg/kg | 0.016 | 0.017 | 105 | 67-141 | |
| 4,4'-DDT | mg/kg | 0.016 | 0.017 | 102 | 57-159 | |
| Aldrin | mg/kg | 0.016 | 0.018 | 107 | 70-136 | |
| alpha-BHC | mg/kg | 0.016 | 0.018 | 112 | 67-136 | |
| alpha-Chlordane | mg/kg | 0.016 | 0.017 | 105 | 70-130 | |
| beta-BHC | mg/kg | 0.016 | 0.017 | 105 | 68-131 | |
| delta-BHC | mg/kg | 0.016 | 0.018 | 106 | 58-120 | |
| Dieldrin | mg/kg | 0.016 | 0.018 | 107 | 63-145 | |
| Endosulfan I | mg/kg | 0.016 | 0.017 | 103 | 66-129 | |
| Endosulfan II | mg/kg | 0.016 | 0.018 | 107 | 59-130 | |
| Endosulfan sulfate | mg/kg | 0.016 | 0.017 | 106 | 57-137 | |

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

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

LABORATORY CONTROL SAMPLE: 2954264

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Endrin | mg/kg | 0.016 | 0.017 | 104 | 67-147 | |
| Endrin aldehyde | mg/kg | 0.016 | 0.019 | 112 | 54-144 | |
| Endrin ketone | mg/kg | 0.016 | 0.017 | 106 | 60-139 | |
| gamma-BHC (Lindane) | mg/kg | 0.016 | 0.018 | 110 | 69-137 | |
| gamma-Chlordane | mg/kg | 0.016 | 0.017 | 105 | 69-132 | |
| Heptachlor | mg/kg | 0.016 | 0.017 | 106 | 68-135 | |
| Heptachlor epoxide | mg/kg | 0.016 | 0.018 | 109 | 68-135 | |
| Methoxychlor | mg/kg | 0.016 | 0.018 | 109 | 57-153 | |
| Decachlorobiphenyl (S) | % | | | 102 | 43-157 | |
| Tetrachloro-m-xylene (S) | % | | | 98 | 53-140 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2954522 2954523

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec Limits | RPD | Max RPD | Qual |
|---------------------|-------|-------------|-------------|-------------|--------|--------|-------|--------------|--------|---------|------|
| | | 35473815015 | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | |
| 4,4'-DDD | mg/kg | 0.0013 I | 0.021 | 0.021 | 0.018 | 0.024 | 82 | 110 | 62-144 | 27 | 40 |
| 4,4'-DDE | mg/kg | 0.000077 U | 0.021 | 0.021 | 0.018 | 0.024 | 85 | 113 | 67-141 | 29 | 40 |
| 4,4'-DDT | mg/kg | 0.00012 U | 0.021 | 0.021 | 0.015 | 0.021 | 73 | 100 | 57-159 | 31 | 40 |
| Aldrin | mg/kg | 0.000073 U | 0.021 | 0.021 | 0.018 | 0.023 | 86 | 112 | 70-136 | 27 | 40 |
| alpha-BHC | mg/kg | 0.000087 U | 0.021 | 0.021 | 0.018 | 0.024 | 88 | 115 | 67-136 | 27 | 40 |
| alpha-Chlordane | mg/kg | 0.000046 U | 0.021 | 0.021 | 0.017 | 0.022 | 81 | 108 | 70-130 | 28 | 40 |
| beta-BHC | mg/kg | 0.000097 U | 0.021 | 0.021 | 0.017 | 0.022 | 84 | 108 | 68-131 | 25 | 40 |
| delta-BHC | mg/kg | 0.000011 U | 0.021 | 0.021 | 0.017 | 0.024 | 84 | 115 | 58-120 | 31 | 40 |
| Dieldrin | mg/kg | 0.000050 U | 0.021 | 0.021 | 0.018 | 0.023 | 85 | 113 | 63-145 | 28 | 40 |
| Endosulfan I | mg/kg | 0.000031 U | 0.021 | 0.021 | 0.017 | 0.022 | 81 | 106 | 66-129 | 28 | 40 |
| Endosulfan II | mg/kg | 0.000072 U | 0.021 | 0.021 | 0.018 | 0.024 | 86 | 113 | 59-130 | 28 | 40 |
| Endosulfan sulfate | mg/kg | 0.000054 U | 0.021 | 0.021 | 0.018 | 0.025 | 86 | 121 | 57-137 | 34 | 40 |
| Endrin | mg/kg | 0.000065 U | 0.021 | 0.021 | 0.017 | 0.023 | 81 | 109 | 67-147 | 29 | 40 |
| Endrin aldehyde | mg/kg | 0.000083 U | 0.021 | 0.021 | 0.020 | 0.025 | 94 | 121 | 54-144 | 25 | 40 |
| Endrin ketone | mg/kg | 0.000010 U | 0.021 | 0.021 | 0.018 | 0.024 | 85 | 115 | 60-139 | 30 | 40 |
| gamma-BHC (Lindane) | mg/kg | 0.000019 U | 0.021 | 0.021 | 0.018 | 0.024 | 87 | 114 | 69-137 | 27 | 40 |
| gamma-Chlordane | mg/kg | 0.000085 U | 0.021 | 0.021 | 0.018 | 0.024 | 85 | 114 | 69-132 | 29 | 40 |
| Heptachlor | mg/kg | 0.000049 U | 0.021 | 0.021 | 0.018 | 0.023 | 86 | 112 | 68-135 | 26 | 40 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | | 2954522 | | 2954523 | | | | | | | | | |
|--|-------|-------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|----------|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Max Qual |
| | | 35473815015 | Spike Conc. | Spike Conc. | MS Result | | | | | | | | |
| Heptachlor epoxide | mg/kg | 0.00014 | U | 0.021 | 0.021 | 0.018 | 0.024 | 87 | 113 | 68-135 | 26 | 40 | |
| Methoxychlor | mg/kg | 0.0013 | U | 0.021 | 0.021 | 0.017 | 0.023 | 80 | 108 | 57-153 | 30 | 40 | |
| Decachlorobiphenyl (S) | % | | | | | | | 75 | 101 | 43-157 | | | |
| Tetrachloro-m-xylene (S) | % | | | | | | | 80 | 101 | 53-140 | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

| | | | |
|-------------------------|---|-----------------------|---------------------|
| QC Batch: | 545318 | Analysis Method: | EPA 8081 |
| QC Batch Method: | EPA 3546 | Analysis Description: | 8081 GCS Pesticides |
| Associated Lab Samples: | 35473429002, 35473429003, 35473429004, 35473429005, 35473429006, 35473429007, 35473429008 | | |

| | |
|-------------------------|---|
| METHOD BLANK: 2954265 | Matrix: Solid |
| Associated Lab Samples: | 35473429002, 35473429003, 35473429004, 35473429005, 35473429006, 35473429007, 35473429008 |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------|----------------|------------|
| 4,4'-DDD | mg/kg | 0.00013 U | 0.0017 | 0.00013 | 06/19/19 06:59 | |
| 4,4'-DDE | mg/kg | 0.000061 U | 0.0017 | 0.000061 | 06/19/19 06:59 | |
| 4,4'-DDT | mg/kg | 0.000095 U | 0.0017 | 0.000095 | 06/19/19 06:59 | |
| Aldrin | mg/kg | 0.000058 U | 0.0017 | 0.000058 | 06/19/19 06:59 | |
| alpha-BHC | mg/kg | 0.000069 U | 0.0017 | 0.000069 | 06/19/19 06:59 | |
| alpha-Chlordane | mg/kg | 0.000037 U | 0.0017 | 0.000037 | 06/19/19 06:59 | |
| beta-BHC | mg/kg | 0.000076 U | 0.0017 | 0.000076 | 06/19/19 06:59 | |
| Chlordane (Technical) | mg/kg | 0.016 U | 0.017 | 0.016 | 06/19/19 06:59 | |
| delta-BHC | mg/kg | 0.000086 U | 0.0017 | 0.000086 | 06/19/19 06:59 | |
| Dieldrin | mg/kg | 0.000040 U | 0.0017 | 0.000040 | 06/19/19 06:59 | |
| Endosulfan I | mg/kg | 0.000025 U | 0.0017 | 0.000025 | 06/19/19 06:59 | |
| Endosulfan II | mg/kg | 0.000057 U | 0.0017 | 0.000057 | 06/19/19 06:59 | CU |
| Endosulfan sulfate | mg/kg | 0.000043 U | 0.0017 | 0.000043 | 06/19/19 06:59 | CU |
| Endrin | mg/kg | 0.000052 U | 0.0017 | 0.000052 | 06/19/19 06:59 | |
| Endrin aldehyde | mg/kg | 0.000066 U | 0.0033 | 0.000066 | 06/19/19 06:59 | |
| Endrin ketone | mg/kg | 0.000079 U | 0.0017 | 0.000079 | 06/19/19 06:59 | CU |
| gamma-BHC (Lindane) | mg/kg | 0.00015 U | 0.0017 | 0.00015 | 06/19/19 06:59 | |
| gamma-Chlordane | mg/kg | 0.000068 U | 0.0017 | 0.000068 | 06/19/19 06:59 | |
| Heptachlor | mg/kg | 0.000039 U | 0.0017 | 0.000039 | 06/19/19 06:59 | |
| Heptachlor epoxide | mg/kg | 0.00011 U | 0.0017 | 0.00011 | 06/19/19 06:59 | |
| Methoxychlor | mg/kg | 0.0010 U | 0.0017 | 0.0010 | 06/19/19 06:59 | CU |
| Toxaphene | mg/kg | 0.0073 U | 0.017 | 0.0073 | 06/19/19 06:59 | |
| Decachlorobiphenyl (S) | % | 110 | 43-157 | | 06/19/19 06:59 | |
| Tetrachloro-m-xylene (S) | % | 107 | 53-140 | | 06/19/19 06:59 | |

LABORATORY CONTROL SAMPLE: 2954266

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------|-------|-------------|------------|-----------|--------------|------------|
| 4,4'-DDD | mg/kg | 0.017 | 0.016 | 97 | 62-144 | |
| 4,4'-DDE | mg/kg | 0.017 | 0.016 | 98 | 67-141 | |
| 4,4'-DDT | mg/kg | 0.017 | 0.017 | 102 | 57-159 | |
| Aldrin | mg/kg | 0.017 | 0.016 | 97 | 70-136 | |
| alpha-BHC | mg/kg | 0.017 | 0.017 | 100 | 67-136 | |
| alpha-Chlordane | mg/kg | 0.017 | 0.016 | 94 | 70-130 | |
| beta-BHC | mg/kg | 0.017 | 0.015 | 93 | 68-131 | |
| delta-BHC | mg/kg | 0.017 | 0.015 | 93 | 58-120 | |
| Dieldrin | mg/kg | 0.017 | 0.017 | 99 | 63-145 | |
| Endosulfan I | mg/kg | 0.017 | 0.017 | 101 | 66-129 | |
| Endosulfan II | mg/kg | 0.017 | 0.018 | 109 | 59-130 CH | |
| Endosulfan sulfate | mg/kg | 0.017 | 0.018 | 106 | 57-137 CH | |

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

LABORATORY CONTROL SAMPLE: 2954266

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Endrin | mg/kg | 0.017 | 0.017 | 102 | 67-147 | |
| Endrin aldehyde | mg/kg | 0.017 | 0.019 | 112 | 54-144 | |
| Endrin ketone | mg/kg | 0.017 | 0.018 | 107 | 60-139 | CH |
| gamma-BHC (Lindane) | mg/kg | 0.017 | 0.017 | 102 | 69-137 | |
| gamma-Chlordane | mg/kg | 0.017 | 0.016 | 97 | 69-132 | |
| Heptachlor | mg/kg | 0.017 | 0.016 | 99 | 68-135 | |
| Heptachlor epoxide | mg/kg | 0.017 | 0.017 | 101 | 68-135 | |
| Methoxychlor | mg/kg | 0.017 | 0.018 | 108 | 57-153 | CH |
| Decachlorobiphenyl (S) | % | | | 94 | 43-157 | |
| Tetrachloro-m-xylene (S) | % | | | 93 | 53-140 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2954568 2954569

| Parameter | Units | 35473429002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---------------------|-------|-----------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
| 4,4'-DDD | mg/kg | 0.00016 U | 0.02 | 0.021 | 0.020 | 0.020 | 96 | 97 | 62-144 | 1 | 40 | |
| 4,4'-DDE | mg/kg | 0.000075 U | 0.02 | 0.021 | 0.020 | 0.023 | 95 | 110 | 67-141 | 15 | 40 | |
| 4,4'-DDT | mg/kg | 0.00012 U | 0.02 | 0.021 | 0.021 | 0.020 | 101 | 97 | 57-159 | 3 | 40 | |
| Aldrin | mg/kg | 0.000071 U | 0.02 | 0.021 | 0.020 | 0.017 | 100 | 83 | 70-136 | 17 | 40 | |
| alpha-BHC | mg/kg | 0.000085 U | 0.02 | 0.021 | 0.023 | 0.020 | 110 | 98 | 67-136 | 10 | 40 | |
| alpha-Chlordane | mg/kg | 0.000046 U | 0.02 | 0.021 | 0.019 | 0.022 | 92 | 106 | 70-130 | 15 | 40 | |
| beta-BHC | mg/kg | 0.000095 U | 0.02 | 0.021 | 0.020 | 0.020 | 99 | 96 | 68-131 | 2 | 40 | |
| delta-BHC | mg/kg | 0.000011 U | 0.02 | 0.021 | 0.019 | 0.019 | 95 | 90 | 58-120 | 4 | 40 | |
| Dieldrin | mg/kg | 0.000049 U | 0.02 | 0.021 | 0.020 | 0.022 | 98 | 105 | 63-145 | 8 | 40 | |
| Endosulfan I | mg/kg | 0.000031 U | 0.02 | 0.021 | 0.021 | 0.024 | 101 | 115 | 66-129 | 13 | 40 | |
| Endosulfan II | mg/kg | 0.000070 U | 0.02 | 0.021 | 0.022 | 0.022 | 108 | 104 | 59-130 | 3 | 40 | CH |
| Endosulfan sulfate | mg/kg | 0.000053 U | 0.02 | 0.021 | 0.022 | 0.022 | 106 | 107 | 57-137 | 2 | 40 | CH,CU |
| Endrin | mg/kg | 0.000064 U | 0.02 | 0.021 | 0.021 | 0.022 | 101 | 106 | 67-147 | 6 | 40 | |
| Endrin aldehyde | mg/kg | 0.000081 U | 0.02 | 0.021 | 0.022 | 0.024 | 110 | 117 | 54-144 | 7 | 40 | |
| Endrin ketone | mg/kg | 0.000098 U | 0.02 | 0.021 | 0.022 | 0.022 | 106 | 108 | 60-139 | 2 | 40 | CH |
| gamma-BHC (Lindane) | mg/kg | 0.00018 U | 0.02 | 0.021 | 0.021 | 0.020 | 102 | 95 | 69-137 | 7 | 40 | |
| gamma-Chlordane | mg/kg | 0.000084 U | 0.02 | 0.021 | 0.020 | 0.027 | 96 | 132 | 69-132 | 32 | 40 | |

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | | 2954568 | | 2954569 | | | | | | | | | | | |
|--|-------|-------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|----------|--|--|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Max Qual | | |
| | | 35473429002 | Spike Conc. | Spike Conc. | Result | | | | | | | | | | |
| Heptachlor | mg/kg | 0.000048 | U | 0.02 | 0.021 | 0.022 | 0.020 | 105 | 97 | 68-135 | 7 | 40 | | | |
| Heptachlor epoxide | mg/kg | 0.00014 | U | 0.02 | 0.021 | 0.020 | 0.022 | 99 | 107 | 68-135 | 8 | 40 | | | |
| Methoxychlor | mg/kg | 0.0013 | U | 0.02 | 0.021 | 0.022 | 0.022 | 105 | 105 | 57-153 | 0 | 40 | CH | | |
| Decachlorobiphenyl (S) | % | | | | | | | 99 | 93 | 43-157 | | | | | |
| Tetrachloro-m-xylene (S) | % | | | | | | | 93 | 86 | 53-140 | | | | | |

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

| | | | |
|-------------------------------------|----------|-----------------------|---------------------|
| QC Batch: | 545229 | Analysis Method: | EPA 8081 |
| QC Batch Method: | EPA 3510 | Analysis Description: | 8081 GCS Pesticides |
| Associated Lab Samples: 35473429009 | | | |

METHOD BLANK: 2953789 Matrix: Water

Associated Lab Samples: 35473429009

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|--------|----------------|------------|
| 4,4'-DDD | ug/L | 0.0089 U | 0.010 | 0.0089 | 06/13/19 22:15 | |
| 4,4'-DDE | ug/L | 0.0050 U | 0.010 | 0.0050 | 06/13/19 22:15 | |
| 4,4'-DDT | ug/L | 0.0050 U | 0.010 | 0.0050 | 06/13/19 22:15 | |
| Aldrin | ug/L | 0.0015 U | 0.010 | 0.0015 | 06/13/19 22:15 | |
| alpha-BHC | ug/L | 0.0021 U | 0.010 | 0.0021 | 06/13/19 22:15 | |
| alpha-Chlordane | ug/L | 0.0082 U | 0.010 | 0.0082 | 06/13/19 22:15 | |
| beta-BHC | ug/L | 0.0080 U | 0.010 | 0.0080 | 06/13/19 22:15 | |
| Chlordane (Technical) | ug/L | 0.18 U | 0.50 | 0.18 | 06/13/19 22:15 | |
| delta-BHC | ug/L | 0.0048 U | 0.010 | 0.0048 | 06/13/19 22:15 | |
| Dieldrin | ug/L | 0.0020 U | 0.010 | 0.0020 | 06/13/19 22:15 | |
| Endosulfan I | ug/L | 0.0051 U | 0.010 | 0.0051 | 06/13/19 22:15 | |
| Endosulfan II | ug/L | 0.0040 U | 0.010 | 0.0040 | 06/13/19 22:15 | |
| Endosulfan sulfate | ug/L | 0.0062 U | 0.10 | 0.0062 | 06/13/19 22:15 | |
| Endrin | ug/L | 0.0043 U | 0.010 | 0.0043 | 06/13/19 22:15 | |
| Endrin aldehyde | ug/L | 0.0036 U | 0.10 | 0.0036 | 06/13/19 22:15 | CU |
| gamma-BHC (Lindane) | ug/L | 0.0022 U | 0.010 | 0.0022 | 06/13/19 22:15 | |
| gamma-Chlordane | ug/L | 0.0050 U | 0.010 | 0.0050 | 06/13/19 22:15 | |
| Heptachlor | ug/L | 0.0062 U | 0.010 | 0.0062 | 06/13/19 22:15 | |
| Heptachlor epoxide | ug/L | 0.0052 U | 0.010 | 0.0052 | 06/13/19 22:15 | |
| Methoxychlor | ug/L | 0.0096 U | 0.010 | 0.0096 | 06/13/19 22:15 | |
| Mirex | ug/L | 0.013 U | 0.10 | 0.013 | 06/13/19 22:15 | |
| Toxaphene | ug/L | 0.25 U | 0.50 | 0.25 | 06/13/19 22:15 | |
| Decachlorobiphenyl (S) | % | 53 | 10-132 | | 06/13/19 22:15 | |
| Tetrachloro-m-xylene (S) | % | 60 | 27-124 | | 06/13/19 22:15 | |

LABORATORY CONTROL SAMPLE: 2953790

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------|-------|-------------|------------|-----------|--------------|------------|
| 4,4'-DDD | ug/L | 0.5 | 0.49 | 98 | 67-133 | |
| 4,4'-DDE | ug/L | 0.5 | 0.51 | 102 | 59-125 | |
| 4,4'-DDT | ug/L | 0.5 | 0.57 | 113 | 54-132 | |
| Aldrin | ug/L | 0.5 | 0.43 | 85 | 25-116 | |
| alpha-BHC | ug/L | 0.5 | 0.57 | 115 | 53-126 | |
| alpha-Chlordane | ug/L | 0.5 | 0.52 | 103 | 67-115 | |
| beta-BHC | ug/L | 0.5 | 0.59 | 119 | 62-130 | |
| delta-BHC | ug/L | 0.5 | 0.56 | 112 | 35-122 | |
| Dieldrin | ug/L | 0.5 | 0.53 | 107 | 66-128 | |
| Endosulfan I | ug/L | 0.5 | 0.54 | 108 | 67-125 | |
| Endosulfan II | ug/L | 0.5 | 0.55 | 110 | 67-131 | |
| Endosulfan sulfate | ug/L | 0.5 | 0.57 | 113 | 62-127 | |

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

LABORATORY CONTROL SAMPLE: 2953790

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Endrin | ug/L | 0.5 | 0.56 | 112 | 66-130 | |
| Endrin aldehyde | ug/L | 0.5 | 0.65 | 129 | 61-124 | CH,J(L1) |
| gamma-BHC (Lindane) | ug/L | 0.5 | 0.57 | 115 | 58-127 | |
| gamma-Chlordane | ug/L | 0.5 | 0.55 | 110 | 66-115 | |
| Heptachlor | ug/L | 0.5 | 0.45 | 91 | 35-123 | |
| Heptachlor epoxide | ug/L | 0.5 | 0.55 | 111 | 62-125 | |
| Methoxychlor | ug/L | 0.5 | 0.56 | 111 | 59-135 | |
| Mirex | ug/L | 0.5 | 0.52 | 104 | 35-114 | |
| Decachlorobiphenyl (S) | % | | | 54 | 10-132 | |
| Tetrachloro-m-xylene (S) | % | | | 64 | 27-124 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2954632 2954633

| Parameter | Units | MS 35473515001 | | MSD | | MS Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--------------------------|-------|----------------|-------------|-------------|--------|-----------|----------|-----------|--------------|-----|---------|--------------|
| | | Result | Spike Conc. | Spike Conc. | Result | | | | | | | |
| 4,4'-DDD | ug/L | 0.0085 U | 0.48 | 0.48 | 0.48 | 0.49 | 100 | 103 | 67-133 | 3 | 40 | |
| 4,4'-DDE | ug/L | 0.0048 U | 0.48 | 0.48 | 0.40 | 0.44 | 82 | 93 | 59-125 | 12 | 40 | |
| 4,4'-DDT | ug/L | 0.0048 U | 0.48 | 0.48 | 0.63 | 0.60 | 131 | 126 | 54-132 | 5 | 40 | |
| Aldrin | ug/L | 0.0014 U | 0.48 | 0.48 | 0.47 | 0.44 | 97 | 92 | 25-116 | 5 | 40 | |
| alpha-BHC | ug/L | 0.0020 U | 0.48 | 0.48 | 0.70 | 0.72 | 146 | 152 | 53-126 | 3 | 40 | J(M1) |
| alpha-Chlordane | ug/L | 0.0078 U | 0.48 | 0.48 | 0.46 | 0.46 | 97 | 97 | 67-115 | 0 | 40 | |
| beta-BHC | ug/L | 0.0076 U | 0.48 | 0.48 | 0.90 | 0.84 | 187 | 176 | 62-130 | 6 | 40 | J(M1) |
| delta-BHC | ug/L | 0.0046 U | 0.48 | 0.48 | 0.73 | 0.65 | 152 | 136 | 35-122 | 12 | 40 | J(M1) |
| Dieldrin | ug/L | 0.0019 U | 0.48 | 0.48 | 0.58 | 0.52 | 121 | 108 | 66-128 | 11 | 40 | |
| Endosulfan I | ug/L | 0.0049 U | 0.48 | 0.48 | 0.64 | 0.68 | 133 | 142 | 67-125 | 6 | 40 | J(M1) |
| Endosulfan II | ug/L | 0.0038 U | 0.48 | 0.48 | 0.56 | 0.55 | 116 | 115 | 67-131 | 1 | 40 | |
| Endosulfan sulfate | ug/L | 0.0059 U | 0.48 | 0.48 | 0.63 | 0.53 | 132 | 111 | 62-127 | 17 | 40 | J(M1) |
| Endrin | ug/L | 0.0041 U | 0.48 | 0.48 | 0.55 | 0.55 | 114 | 115 | 66-130 | 1 | 40 | |
| Endrin aldehyde | ug/L | 0.0034 U | 0.48 | 0.48 | 0.62 | 0.60 | 129 | 125 | 61-124 | 4 | 40 | CH, J(M0) |
| gamma-BHC (Lindane) | ug/L | 0.0021 U | 0.48 | 0.48 | 0.67 | 0.66 | 140 | 137 | 58-127 | 2 | 40 | J(M1) |
| gamma-Chlordane | ug/L | 0.0048 U | 0.48 | 0.48 | 0.55 | 0.50 | 115 | 105 | 66-115 | 9 | 40 | |
| Heptachlor | ug/L | 0.0059 U | 0.48 | 0.48 | 0.62 | 0.57 | 129 | 120 | 35-123 | 8 | 40 | J(M1) |
| Heptachlor epoxide | ug/L | 0.0050 U | 0.48 | 0.48 | 0.56 | 0.52 | 118 | 110 | 62-125 | 7 | 40 | |
| Methoxychlor | ug/L | 0.0092 U | 0.48 | 0.48 | 0.81 | 0.87 | 169 | 181 | 59-135 | 7 | 40 | J(M1) |
| Mirex | ug/L | 0.012 U | 0.48 | 0.48 | 0.44 | 0.48 | 93 | 101 | 35-114 | 9 | 40 | |
| Decachlorobiphenyl (S) | % | | | | | | 51 | 48 | 10-132 | | | |
| Tetrachloro-m-xylene (S) | % | | | | | | 89 | 86 | 27-124 | | | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Flagler Beach Salt Marsh
Pace Project No.: 35473429

| | | | |
|-------------------------|--|-----------------------|-----------------------------|
| QC Batch: | 545127 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 35473429001, 35473429002, 35473429003, 35473429004, 35473429005, 35473429006, 35473429007, 35473429008 | | |

SAMPLE DUPLICATE: 2953212

| Parameter | Units | Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|--------|------------|-----|---------|------------|
| Percent Moisture | % | 2.2 | 2.0 | 7 | 10 | |

SAMPLE DUPLICATE: 2953213

| Parameter | Units | Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|--------|------------|-----|---------|------------|
| Percent Moisture | % | 10.4 | 10.4 | 1 | 10 | |

SAMPLE DUPLICATE: 2953214

| Parameter | Units | Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|--------|------------|-----|---------|------------|
| Percent Moisture | % | 8.3 | 8.6 | 3 | 10 | |

SAMPLE DUPLICATE: 2953215

| Parameter | Units | Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|--------|------------|-----|---------|------------|
| Percent Moisture | % | 7.6 | 8.0 | 5 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Flagler Beach Salt Marsh
 Pace Project No.: 35473429

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- U Compound was analyzed for but not detected.
- CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- CU The continuing calibration for this analyte is above laboratory acceptance limits. Analyte was not detected above the reporting limit in any of the associated samples.
- J(L1) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- J(M0) Estimated Value. Matrix spike recovery was outside laboratory control limits.
- J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- P1 Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Flagler Beach Salt Marsh

Pace Project No.: 35473429

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 35473429001 | FC-GR2-1' | EPA 3546 | 545317 | EPA 8081 | 545593 |
| 35473429002 | FC-GR2-2' | EPA 3546 | 545318 | EPA 8081 | 545592 |
| 35473429003 | FC-I-1' | EPA 3546 | 545318 | EPA 8081 | 545592 |
| 35473429004 | FC-K-1' | EPA 3546 | 545318 | EPA 8081 | 545592 |
| 35473429005 | FC-K-2' | EPA 3546 | 545318 | EPA 8081 | 545592 |
| 35473429006 | FCB-1' | EPA 3546 | 545318 | EPA 8081 | 545592 |
| 35473429007 | FC-B-2' | EPA 3546 | 545318 | EPA 8081 | 545592 |
| 35473429008 | FC-L1-1' | EPA 3546 | 545318 | EPA 8081 | 545592 |
| 35473429009 | EB-1 | EPA 3510 | 545229 | EPA 8081 | 545498 |
| 35473429001 | FC-GR2-1' | ASTM D2974-87 | 545127 | | |
| 35473429002 | FC-GR2-2' | ASTM D2974-87 | 545127 | | |
| 35473429003 | FC-I-1' | ASTM D2974-87 | 545127 | | |
| 35473429004 | FC-K-1' | ASTM D2974-87 | 545127 | | |
| 35473429005 | FC-K-2' | ASTM D2974-87 | 545127 | | |
| 35473429006 | FCB-1' | ASTM D2974-87 | 545127 | | |
| 35473429007 | FC-B-2' | ASTM D2974-87 | 545127 | | |
| 35473429008 | FC-L1-1' | ASTM D2974-87 | 545127 | | |

REPORT OF LABORATORY ANALYSIS

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WO# : 35473429



Section A

Required Client Information:

Company Terracon - Winter Park
 Address: 1675 Lee Road
 Winter Park, FL 32789
 Email: dcbeerbower@terracon.com
 Phone: 321-279-5638
 Requested Due Date: 7/24/14

Section C

Invoice Information:

Report To: David Beerbower
 Copy To:
 Purchase Order #: H11097384
 Project Name: Flagler Beach Salt Marsh
 Project #: H11097384

Page :

1 Of 1

HAIN-OFF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| ITEM # | SAMPLE ID | COLLECTED | | | PRESERVATIVES | | | ANALYSES TEST | | | REQUESTED ANALYSIS FILTERED (Y/N) | | | |
|---|-----------|-------------------------------|------|------|---------------------------|-----|------|---------------|------|------|-----------------------------------|------|------|--|
| | | MATRIX | CODE | CODE | START | END | TIME | DATE | TIME | DATE | TIME | DATE | TIME | |
| 1 | FC-GR2-1' | Drinking Water | DW | | | | | | | | | | X | |
| 2 | FC-GR2-2' | Water | WT | | | | | | | | | | X | |
| 3 | FC-T-1' | Waste Water | WW | | | | | | | | | | X | |
| 4 | FC-K-1' | Product | P | | | | | | | | | | X | |
| 5 | FC-K-2' | Sol/Solid | SL | | | | | | | | | | X | |
| 6 | FC-B-1' | Oil | OL | | | | | | | | | | X | |
| 7 | FC-B-1+MB | Wipe | WP | | | | | | | | | | X | |
| 8 | FC-B-2' | Air | AR | | | | | | | | | | X | |
| 9 | FC-L-1' | Other | OT | | | | | | | | | | X | |
| 10 | EB-1 | Tris/Buf | TS | | | | | | | | | | X | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| ADDITIONAL COMMENTS | | RELINQUISHED BY / AFFILIATION | | | ACCEPTED BY / AFFILIATION | | | DATE | | | TIME | | | |
| Empty Containers | | Pace | | | Pace | | | 6/19/14 | | | 0700 | | | |
| | | Nikita | | | Nikita | | | 6/19/14 | | | 0700 | | | |
| | | Tina | | | Tina | | | 6/19/14 | | | 0700 | | | |
| | | | | | | | | | | | | | | |
| SAMPLE NAME AND SIGNATURE | | | | | | | | | | | | | | |
| PRINT NAME OF SAMPLER: <u>Lori Palmer</u> | | | | | | | | | | | | | | |
| SIGNATURE OF SAMPLER: <u>Lori Palmer</u> | | | | | | | | | | | | | | |
| DATE Signed: <u>6/21/14</u> | | | | | | | | | | | | | | |

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

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO# : 35473429

PM: LAP **Due Date: 06/13/19**
CLIENT: TERCON

Thermometer Used: T-337

Date: 6/7/19

Time: 12:21

Initials: JH

State of Origin:

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

Cooler #1 Temp. °C 5.8 (Visual) +0.3 (Correction Factor) 6.1 (Actual)

Samples on ice, cooling process has begun

Cooler #2 Temp. °C 14.8 (Visual) +0.3 (Correction Factor) 15.1 (Actual)

Samples on ice, cooling process has begun

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

Samples on ice, cooling process has begun

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

Samples on ice, cooling process has begun

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

Samples on ice, cooling process has begun

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

Samples on ice, cooling process has begun

Courier: FedEx UPS USPS Client Commercial Pace Other _____

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

Other _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 7753 6704 7655

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

Packing Material: Bubble Wrap Bubble Bags None Other _____

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

Comments:

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

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments):

Sample #16 labeled on Bottle as SC-B-1' - COC says FCB-1"