FLORIDA INTERNATIONAL UNIVERSITY
BOARD OF TRUSTEES
FINANCE AND FACILITIES COMMITTEE

Zoom Meeting
Public access via http://webcast.fiu.edu/

Wednesday, October 28, 2020
9:00 AM

Chair: Leonard Boord
Vice Chair: Roger Tovar
Members: Cesar L. Alvarez, Dean C. Colson, Natasha Lowell, Joerg Reinhold, Marc D. Sarnoff

AGENDA

1. **Call to Order and Chair's Remarks** — **Leonard Boord**

2. **Action Items**

   FF1. Approval of Gift of Real Property and New Educational Site — **Kenneth G. Furton**

   FF2. Approval of the Agreement for Integrated Branding, Marketing and Communication Services — **Sandra B. Gonzalez-Levy**

3. **New Business**

   FF3. Facility Renaming from "Torrey Pines at FIU" to "FIU Center for Translational Science (FIU-CTS)" — **Kenneth G. Furton**

4. **Concluding Remarks and Adjournment** — **Leonard Boord**

The next Finance and Facilities Committee Meeting is scheduled for Thursday, December 3, 2020

FIU Board of Trustees Finance and Facilities Committee Meeting

Time: October 28, 2020 9:00 AM - 10:00 AM EDT

Location: Via Zoom

THE FLORIDA INTERNATIONAL UNIVERSITY
BOARD OF TRUSTEES
Finance and Facilities Committee

October 28, 2020

Subject: Approval of Gift of Real Property and New Educational Site

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Proposed Committee Action:

Recommend that the Florida International University Board of Trustees approve (1) the acceptance of a gift of real property located in the Redland agricultural area of south Miami-Dade County referred to as "Possum Trot" at no cost; (2) the establishment of a Special Purpose Center and the University's submission of a request to the Board of Governors for approval of the operation of the property as a Special Purpose Center; and (3) the delegation of authority to the University President, or designee, to execute on behalf of the University all other documents that may be necessary to effectuate the transactions contemplated in the Agreement.

RESOLUTION

WHEREAS, Possum Trot is a 30 acre commercially productive tropical fruit grove producing multiple important tropical specialty fruits located at the northeast intersection of SW 216 Street and SW 152 Avenue in the Redland agricultural area of south Miami-Dade County;

WHEREAS, the current owner of Possum Trot previously made a planned gift of the property to the FIU Foundation, Inc. in 2014 and now wishes to convey the property to FIU during his lifetime through a Transfer and Life Estate Agreement (the "Agreement");

WHEREAS, the University believes that the acquisition of Possum Trot will further the University's research and academic mission by providing a field site for agricultural and ecological research; training in farming and farm management practices; opportunities for improving food production in urban and peri-urban areas; and opportunities for economic growth and social improvement of Miami-Dade County's agricultural production areas;

WHEREAS, the University's acceptance of Possum Trot is believed to be supportive of FIU's mission and the goals incorporated into the Next Horizon 2025 Strategic Plan and the Board of Governors State University System Strategic Plan; and

WHEREAS, the University wishes to establish a Special Purpose Center and to submit a request to the Florida Board of Governors for approval to operate the Possum Trot site as a Special Purpose Center.

NOW THEREFORE, BE IT RESOLVED, that the University is authorized to submit to the Florida Board of Governors the Proposal to Establish a New Type I, II or III Campus or Special Purpose Center for approval to operate the Possum Trot site as a Special Purpose Center; and

BE IT FURTHER RESOLVED, that, following receipt of the foregoing approval by the Florida Board of Governors, the University is authorized to consummate the transactions contemplated by the Agreement and operate the Possum Trot site as a Special Purpose Center, and further authorizes the University President, or his designee, to execute on behalf of the University any agreements or documents that may be necessary in connection with the foregoing.

This action is in the form of a resolution to take effect immediately upon adoption.

Adopted this _____ day of _____, 2020 by the Board of Trustees of Florida International University.

_____	_____
Dean Colson	Mark B. Rosenberg
Chair	Corporate Secretary
FIU Board of Trustees	FIU Board of Trustees

Legal Authority:
BOG Regulation 1.001(7)(b) provides in pertinent part: "[e]ach board of trustees shall have the authority to acquire real and personal property and contract for the sale and disposal of same."

BOG Regulation 8.009(1)(c) defines a "special purpose center" as "a unit of a university, apart from the main campus, that provides certain special, clearly defined programs or services, such as research or public service, and reflects a relatively permanent commitment by a university for the foreseeable future, not an occasional, time-limited, or transitory activity, in facilities which are university-owned, university-leased, or jointly used with another public institution."

BOG Regulation 8.009(3)(d) and FIU Regulation FIU-116(3)(B)(2) each provide that "[e]stablishing, reclassifying, relocating, or closing an additional campus or special purpose center, including acquiring real property for such educational sites, shall be approved by the [Board of Trustees] and, subsequently, the Board of Governors."

Supporting Documentation:	BOG Special Purpose Center Form
	Transfer and Life Estate Agreement
	Financial Summary
	Appraisal
	Phase I Environmental Survey
	Phase II Environmental Survey
	Property Survey
	Funding Certification Form
	Response to Board of Governors Request for Additional Information
Facilitator/Presenter:	Kenneth G. Furton

BOARD OF GOVERNORS, STATE UNIVERSITY SYSTEM OF FLORIDA
PROPOSAL TO ESTABLISH A NEW TYPE I, II, OR III CAMPUS, OR SPECIAL PURPOSE CENTER

Florida International University **University Submitting Proposal**	Possum Trot **Proposed Name of Educational Site**
Site ID	Special Purpose Center **Proposed Type of Educational Site** (Type I, II, or III Campus, or Special Purpose Center)
14955 SW 214 Street, Miami, FL 33187 **Physical Address of Educational Site** (US Site: address, city, state, zip) (International site: street address, number, city, county/province, country)	Fall, 2020 **Proposed Opening Date** (First term student instruction will be offered at the site)

The submission of this proposal constitutes a commitment by the university that, if the proposal is approved, the necessary financial resources and the criteria for establishing or relocating an educational site have been met prior to the initiation of the first course offerings.

Date Approved by the University Board of Trustees	**President**	**Date**
Signature of Chair, Board of Trustees	**Vice President for Academic Affairs**	**Date**

Under Projected Enrollment, provide headcount (HC) and full-time equivalent (FTE) student enrollment estimates by level from Table 1 in Appendix A for Years 1 and 5, or the Final Year of implementation if it exceeds five. Under Projected Costs, provide revenues and expenses from Table 2 and capital project costs from Table 3 for Years 1 and 5, or the Final Year if it exceeds five.

Projected Site Enrollment (from Table 1)			
		HC	FTE
Undergraduate	Year 1	0	0
	Year 5	0	0
Graduate	Year 1	0	0
	Year 5	0	0

Projected Costs (from Tables 3 and 4)				
	Operational			
	E&G Funding	Other (Contracts & Grants, Auxiliary)	Capital Projects	Total Cost
Year 1	0	42,244	58,500	100,744
Year 2	0	33,360	0	33,360
Year 3	0	42,897	0	42,897
Year 4	0	38,601	0	38,601
Year 5	0	45,958	0	45,958

Note: This outline and the questions pertaining to each section must be reproduced within the body of the proposal to ensure that all sections have been satisfactorily addressed. Tables 1 through 4 are to be

included as Appendix A and not reproduced within the body of the proposals because this often causes errors in the automatic calculations.

I. Introduction

A. Provide a short description of the project and rationale for the request to establish an educational site, including the main purpose for this site (research, instruction, administration, student services, etc.).

Global food security is arguably the critical challenge of the 21st century. In a mere 30 years, the world's population is projected to rise from 7 billion to over 9 billion. Successful mitigation of hunger and the concomitant ability to sustainably and equitably meet nutritional needs, necessitate innovative solutions and paradigmatic shifts in terms of human society and the ecosystem.

The National Research Council (New Biology for 21st Century Challenges) stresses that New Biology approaches are vital to address current world challenges of sustaining food production, protecting the natural environment, and maintaining renewable energy systems. As a result, U.S. Department of Agriculture and USAID funded research continue to prioritize food security, food safety, climate change, bioenergy, and overall global sustainability and resilience.

Possum Trot (PT), an initiative of the Department of Earth and Environment and the International Center of Tropical Botany (ICTB), both housed within the College of Arts, Sciences & Education (CASE), is designed precisely to respond to the urgent needs of the time. At its core, Possum Trot will support cutting-edge research and innovative education in a range of disciplines, including agricultural sciences, environmental sciences, tropical biology, biochemistry, biotechnology, economics, marketing and business. Addressing food security necessitates a cross-disciplinary approach and in this regard Possum Trot will serve as an integral part of both the FIU Agroecology Program and the International Center for Tropical Botany, and forge active synergies with the Biomolecular Sciences Institute. Overall, Possum Trot will be a facility focused on: improving the agricultural productivity and agro-economy of Miami-Dade County, addressing broader issues of sustainable food production, preliminary tropical plant screening of local plants to determine or discover new pharmacologically active substances in mixtures of natural products, training farm and food workers, developing new agro products, and providing technical support for the food and agricultural businesses and related stakeholders. Its distinctive topography will also allow research programs to be centered around three unique aspects of the property: (i) the high biodiversity of the natural areas and its management; (ii) the existing living collections, particularly, derived natural products, including that of assembling, maintaining, and screening tropical plant extracts for medicinal application, and, their contribution to understanding of benefits of alternative production systems; and (iii) the ability to develop new plantings of novel varieties and species of tropical plants of economic importance, and the potential to plant these in an experimental design to test hypotheses of relationships between aspects of biodiversity and ecosystem services including crop yields and biogeochemical cycles.

As FIU fulfills our mandate to improve the lives and livelihoods of our diverse South Florida communities Possum Trot will place FIU researchers and students within the heart of the

Redland agricultural community, enhancing outreach to farmers, specifically small growers and new farmers, to provide them with knowledge and skills to keep local agriculture profitable, competitive, and sustainable. To this end, Possum Trot will deliver applied research and practical training in sustainable agriculture, soil science, horticulture, and demonstration plots. The Possum Trot vision is to create a grove-to-table experience through creating a regular calendar of public events to promote agro-tourism and showcase the historical and current food presentations, as well as new and value-added food products.

It is precisely this sense of duty to community and futurity which has made possible this Possum Trot initiative. Possum Trot is a 29.24-acre tropical fruit grove located at the northeast intersection of SW 216 Street and SW 152 Avenue in the Redland agricultural area of South Miami-Dade County. Possum Trot is a commercially productive grove producing multiple important tropical specialty fruits. Collaborative land use agreements have been developed and are in place. The land is being gifted to FIU from its current owner Mr. Robert F. Barnum.

The parcel of land will be used as an important teaching element of the FIU Agroecology program housed in the College of Arts, Sciences and Education (CASE). The Agroecology program integrates science-based education, research and outreach focusing on the interface of agriculture, natural ecosystems, and urban development. Agroecology at FIU is an innovative, science-based curricular program that lets students focus on issues in agriculture at the farm, community and regional landscape level. Students are exposed to an intellectual learning environment and to agricultural agencies and research institutions such as the U.S. Department of Agriculture's Agricultural Research Service, along with other research and educational organizations.

At Possum Trot, students will be able to explore spatial agricultural issues including regional water allocation conflicts, urban-rural conflicts, community foodsheds, and geospatial analysis of agricultural resources and systems impacts. Students will actively participate in the ecological principles of food forests as sustainable agroecosystems and highlight the socioeconomic benefits of integrating forest gardening into the South Florida Landscape. An important part of the program is understanding fruit production and sales.

This grove contains an extensive and unique collection of tropical fruit, spice, and timber trees collected over the last thirty years by Mr. Robert Barnum and his family. It has about 350 tropical and sub-tropical plant species including medicinal, aromatics, and edibles. The living collection includes more than 100 varieties of mangos, 50 varieties of jackfruit, 10 varieties of avocado, 20 varieties of carambola and several varieties of tropical plants that show medicinal promise. The assemblage is unique because of the breadth of their taxonomic and genetic diversity, and because of the unique management system akin to permaculture that has been employed. Accordingly, opportunities exist (i) to conduct research comparing the management system to more conventionally managed properties in the region; and (ii) to investigate links between the diversity (taxonomic and especially genetic) and economic and ecological value of the collections, in terms of fruit production, or biogeochemical cycling (e.g., carbon storage, nutrient retention) and potency of active compounds. There also exist many opportunities to use the living collections as sources of tissue for natural products research on fibers, oils, latex and secondary chemicals. And there are continued opportunities for both teaching and research in horticulture on seed banking, propagation techniques and the establishment of a tropical

plants natural products library. Certain plant species on this farm also have the potential for developing new commercially viable food and bio-based products.

In addition, the site has the opportunity for natural area management. There have been several initial surveys of native plants and insects across the property. These censuses could be standardized and used as baseline for regular sampling that would represent temporal monitoring of diversity and composition and support. There are also opportunities for plant restoration projects, subsequent to inventories. These might include both invasive species control and conservation translocations of threatened taxa.

A major value of the site will integrate existing collections and information to design complementary plantings with sufficient replication to respond to pressing economic and ecological questions. Indeed, an agroforestry experiment with biodiversity would be very timely, especially in our unique climatic and economic setting (see Verheyen et al. 2015 in appendix). An excellent opportunity exists for establishing trials of important species that might replace certain staples and therefore buffer economically against changing markets, and ecologically against changes in climate and pests.

The specific objectives of Possum Trot are:

- Provide a field site for agricultural and ecological research aligned with the Agroecology Program, International Center of Tropical Botany, Biomolecular Sciences Institute and the College of Arts, Sciences & Education as a whole.

- Provide scientifically rigorous training opportunities in tropical and sub-tropical agriculture and environmental sciences with practical and field-based training.

- Support an increase in the number of STEM graduates who are ready to join the agricultural and scientific workforce.

- Deliver high quality research that addresses the needs of tropical and sub-tropical growers and responds to the challenges of balancing food security with ecological and social sustainability.

- Align the International Center of Tropical Botany with Biomolecular Sciences Institute to develop and maintain a Tropical Plants Natural Products Library to identify active fractions with biological testing relevant for diseases.

- Develop innovative and sustainable products and practices through research and development that can be commercialized for applications in south Florida and the tropics (e.g., soil-water-nutrient management, integrated pest management, new propagation techniques, biochar, biofuels).

- Foster collaboration between the Agroecology Program, the International Center of Tropical

Botany and the Food and Beverage Science Program in the Chaplin School of Hospitality & Tourism Management to develop and guide the development of value added and alternative products through farmers/ entrepreneurs

- Explore the potential for developing commercial bio-based products including biofuels, beverages, and industrial products.

- Preserve and further enhance, as part of the International Center for Tropical Botany and the Consultative Group for International Agricultural Research global network for plant genetic resource conservation, the Possum Trot's rare tropical and sub-tropical fruit species collection.

- Provide training in farming and in farm business management practices to new and socially disadvantaged farmers in South Florida.

- Promote scientific awareness of the tropical agro-biodiversity among college and K-12 students, area farmers, urban residents and national and international visitors interested in agricultural and biological conservation.

- Explore the potential for improving food production in urban and peri-urban areas.

- Develop local food security responses as a contribution to local and regional economic development and environmental resilience in Miami Dade County and South Florida.

- Contribute to the economic growth and social improvement of Miami Dade's agricultural production areas.

B. Provide a short narrative assessment of how the establishment of the educational site supports the university mission and the goals incorporated into the university strategic plan and Board of Governors State University System Strategic Plan.

FIU's Next Horizon 2025 Strategic Plan, includes, as its third pillar, the university's commitment to "Assure Responsible Stewardship, by "strengthen[ing] our commitment to ensuring a sustainable future for our institution and the South Florida community." Possum Trot will advance the University's mission by focusing on environmental resilience and sustainability, by facilitating state-of-the–art research and by increasing external funding. Since this initiative will bring together faculty from several FIU departments and Centers in the College of Arts, Sciences & Education, College of Architecture and the Arts, and the Chaplin College of Hospitality and Tourism Management, Possum Trot can truly be viewed as a tangible outcome of the university-wide priorities outlined in the Next Horizon 2025 Strategic Plan.

The Florida Board of Governors has emphasized strengthening university programs that seek to train students in job-oriented science and technology fields. Possum Trot will help to strengthen comprehensive agroecology, tropical agro-biodiversity conservation and biomolecular sciences programs that will increase the number of job-oriented degrees in the field of agriculture, environmental and natural resource sciences, biological conservation, and biotechnology.

The proposed facility will directly serve goals identified in the 2012-2025 State University System's Board of Governors Strategic Plan (see Table B).

Table B: Possum Trot's Contribution to the SUS Strategic Plan

State University System of Florida Goals	Possum Trot Response
Strengthen the quality and reputation of academic programs and universities	A key resource for Agroecology, the International Center of Tropical Botany and opportunity for the Biomolecular Sciences Institute that will convene a strong group of researchers and will enhance the quality and reputation of their work by coordinating and supporting their research. A key part of the Possum Trot work will be to build local, regional and global partnerships for research and training.
Strengthen the quality and reputation of scholarship, research and innovation	Possum Trot will be a venue for working with collaborative partners and will strengthen the reputation of south Florida as a place in which to study tropical sustainable agriculture and medicinals.
Increase degree productivity and program efficiency	Possum Trot will expand FIU's ability to offer engaging research and teaching opportunities to foster the progress of our students.
Increase the number of degrees awarded in STEM and other areas of strategic emphasis	Possum Trot will be a major venue for STEM initiatives using agriculture and ecology.
Increase research and commercialization activity	Agroecology, the International Center of Tropical Botany, Biomolecular Sciences Institute and the Chaplin School of Hospitality & Tourism Management will work with farming industry partners and with agricultural communities to increase opportunities for translational research and the commercialization of research.
Increase collaboration and external support for research activity	Possum Trot will be a hub of an extensive network of local and national supporting partner institutions and agencies.

Table B: Possum Trot's Contribution to the SUS Strategic Plan

State University System of Florida Goals	Possum Trot Response
Increase levels of community and business engagement	Possum Trot will work with our farming and community education partners (e.g. County Extension Offices, U.S. Department of Agriculture research stations, area Tropical Botanical Gardens, etc.) thereby increasing our visibility in the community and increase the opportunities for students to learn, do applied research and obtain financial support.

Possum Trot will build a strong network of collaborating institutions and agencies. Those that are currently in FIU Agroecology's network are in bold. Others in the list are potential collaborating institutes and centers in Florida:

- **U.S. Department of Agriculture Subtropical Horticultural Research Station**
- **U.S. Department of Agriculture Invasive Plant Species Laboratory**
- **University of Florida Tropical Research and Education Center (TREC)**
- **Miami Dade Fruit and Spice Park**
- **MacArthur Agroecology Research Center**
- **Miami Dade Farm Bureau**
- **Coalition of Florida Farmworkers Alliance**
- **Florida Nurseries and Plant Growers Association**
- **Miami-Dade Agro-tourism Visitors Center**
- **Miami-Dade County School District**
- **Patricia and Phillip Frost Museum of Science**
- **Fairchild Tropical Botanic Garden**
- **The Kampong, National Tropical Botanical Garden**
- **Montgomery Botanical Center**

Potential national and global partners include:

- **Breadfruit Institute, National Tropical Botanical Garden, Hawaii**
- **U.S. Department of Agriculture Agricultural Research Service, Beltsville, MD**
- **U.S. Department of Agriculture- National Laboratory for Agriculture and Environment, Ames, IA**
- **Iowa State University, Ames, IA**
- **Center for Renewable Carbon, University of Tennessee, Knoxville, TN**
- **U.S. Department of Agriculture-Coastal Plains Soil and Water Laboratory, Florence, SC**
- **Consultative Group on International Agriculture Research**
- **National University for Agriculture, Catacamas, Honduras**
- **Agroecology Program, ISARA-Lyon, France**
- **Center for Tropical Agricultural Research and Education, Costa Rica**
- **Inter-American Institute for Cooperation in Agriculture, mission offices in various**

countries

- **University of Agricultural Sciences, Bangalore, India**
- **University of Agricultural Sciences, Coimbatore, India**

C. Provide a timetable of critical benchmarks that must be met for full implementation which can be used to monitor progress (planning, design, funding, construction, etc.). The timetable should also include ensuring appropriate accreditation of the proposed educational site and any proposed programs requiring specialized accreditation, if required.

Approval by FIU Board of Trustees	October 28, 2020
Approval by Board of Governors	November 5, 2020
Transfer of Gift and other assets to FIU	November 13, 2020
Infrastructure Improvements (Fencing)	November 13, 2020
License of land to farmer tenant	November 20, 2020

The five-year implementation plan for establishing Possum Trot consists of:

- Phase I - Year 1 is the execution of a gift agreement, conveyance of land title, execution of License Agreement.

  Year 1 – Starting in Fall 2020, Possum Trot and the Agroecology Program of the Earth and Environment Department will begin to establish a collaboration in South Florida to assist veteran and socially disadvantaged farmers and nursery growers (VSD-FNG) in order to enhance the sustainability of their farm operations. The long-term goal is to equip existing farmers (less than ten years), farm workers and prospective veterans who want to start their own farm operations.

  Fall 2020 – Introduce Possum Trot to the community as a research and outreach facility with a series of public events.

- Phase II (Years 2 and 3) Continue offering to VSD-FNG technical, managerial, marketing, legal, safety and regulatory training through a combination of workshops, on-farm demonstration, farm apprenticeship, and one-on-one consulting. Increase the participation in U.S. Department of Agriculture benefit and assistance programs, direct loans, crop insurance, economic development, and traditional extension programs. Increase the knowledge and participation of eligible VSD-FNG in the U.S. Department of Agriculture class action lawsuits and claims process and to develop and disseminate web-based and print material on different farming-related (financial, land, equipment and other farm inventory), and government assistance-related information. Collaboration on joint projects with the International Center of Tropical Botany and BSI –Tropical Plants Natural Products Library continue.

  In Year 3 Researchers from participating FIU departments including Earth and Environment and Biology will conduct their research at Possum Trot. All FIU faculty

members will retain their current research and teaching assignments. We will explore synergies and efficiencies with the existing International Center of Tropical Botany /Kampong staff.

- Phase III (Year 4 and subsequent years)
  Possum Trot's strong collaboration with the U.S. Department of Agriculture, FNGLA and other partners will bring a return on investment that demonstrates FIU's national and international preeminence in agroecology, leading to increased academic productivity, increased FIU brand strength, and a diversified funding base for agroecology. Possum Trot will be operated to ensure it runs at a net profit or worst case as a breakeven. Any/all profits generated will be used to further improve the property, offer additional workshop and educational offerings and will also act as a reserve for any required maintenance, i.e. irrigation, fencing, etc.

  Accreditation is not needed to establish Possum Trot at this time.

II. Need and Demand Assessment

A. Provide a detailed assessment of unmet local student demand for access to academic programs in the vicinity of the proposed educational site. Complete Table 1 in Appendix A to enrollment projections for unduplicated student headcount and FTE by degree program and level.

Not applicable; instructional activities will not take place.

B. Provide a detailed data-driven assessment that describes unmet local and regional workforce need for programs and services to be offered at the proposed educational site. In the appendices, provide letters of support from the local community and business interests.

Not applicable; instructional activities will not take place.

III. Academic Programs and Courses

A. Provide a list of the degree programs, partial programs, or college credit certificates and courses to be offered at the proposed educational site by year five or the Final Year of implementation if different, using Table 1 in Appendix A. The proposed degree programs must be identified by six-digit CIP Code, by program title, and degree level.

Not applicable; instructional activities will not take place.

B. Provide an explanation as to how the proposed degree programs and courses will be affiliated with similar programs offered on the central campus and/or other educational sites of the university. Will they be independent or an extension of existing programs?

Not applicable; instructional activities will not take place.

C. Provide an assessment, supported with data, that justifies any duplication of degree programs and services that might already be provided by an existing state university or Florida College System campus in the vicinity of the proposed educational site. Describe any discussions that have taken place with affected colleges and universities and provide letters of support or letters of concern in the appendices.

Not applicable; instructional activities will not take place.

IV. Administration and Student Support Services

A. Describe the administrative structure of the proposed educational site and how it will relate to the central administration of the university. Include any necessary funding in the financial plan outlined in Table 2 of Appendix A.

Possum Trot will be administratively housed in the Department of Earth and Environment, School of Environment Arts and Society (SEAS) within the College of Arts, Sciences and Education.

B. Describe how the proposed site will provide student services, either onsite or online from the central university campus.

Not applicable; instructional activities will not take place.

C. Provide a plan to provide library services and other instructional resources that will support the proposed programs. Include any necessary funding in the financial plan outlined in Table 2 of Appendix A.

Not applicable; instructional activities will not take place.

V. Budget and Facilities

A. Provide a projected operational budget using Table 2 in Appendix A that includes revenues and expenses out to year five, or the final year of implementation if different. Provide a narrative that explains the cost assumptions reflected in Table 2. Include the operational costs on the proposal cover page.

APPENDIX A

TABLE 2

SUMMARY FINANCIAL PROJECTIONS TO FULL IMPLEMENTATION

Fiscal Year Ending June 30	Year 1	Year 2	Year 3	Year 4	Year 5
General Operations Revenues	**2020-21**	**2021-22**	**2022-23**	**2023-24**	**2024-25**
Carry Forward from Prior Year	$0	$0	$140	$283	$428
General Revenue/Lottery					
State Allocations (GR/Lottery)	0	0	0	0	0
Tuition/Tuition Differential and Fees					
Tuition (Marticulation)	0	0	0	0	0
Tuition (Differential, 70% UG Support)	0	0	0	0	0
Out of State Student Tuition Fees	0	0	0	0	0
Research Trust Funds (by title)					
Federal Research Grants Trust Fund	0	0	0	0	0
Financial Aid and Academic Related Fees					
Financial Aid	0	0	0	0	0
Tuition (Differential, 30% Financial Aid)	0	0	0	0	0
Out of State Financial Aid	0	0	0	0	0
Student Technology Fee	0	0	0	0	0
Stuudent Distance Learning Fee	0	0	0	0	0
Other Revenues					
License Income	7,263	7,605	7,687	7,739	7,968
Workshops	7,455	41,524	60,212	50,321	69,207
Total Revenues	**$14,718**	**$49,129**	**$67,899**	**$58,061**	**$77,175**

General Operations Expenses					
Compensation and Employee Benefits	$8,490	$14,274	$16,591	$15,391	$16,799
Shared Services	2,290	3,773	5,359	4,510	6,047
Incremental Shared and/or Contractual Services Costs					
Library Services/e-Collections					
Contractual Services	22,639	3,000	4,000	4,000	4,000
Repairs & Maintenance	65,600	2,000	2,040	2,081	2,122
Leases					
Financial Aid, Scholarships, Stipends					
Equipment					
Workshops Expenses	1,725	10,583	14,907	12,619	16,989
Total Expenses	**100,744**	**33,630**	**42,897**	**38,601**	**45,958**
Operating Net Revenues Over Expenses	**($86,027)**	**$15,500**	**$25,002**	**$19,460**	**$31,217**

FIU has been utilizing the land as an auxiliary enterprise operation under an agreement with the owner. Once the gift of land is received, FIU will generate auxiliary funds to cover the cost of maintaining Possum Trot. The two main sources of auxiliary revenue

will be from a licensing of the land for farm operations and from the delivery of non-credit workshops. FIU will license the use of the land out to an outside party to operate and manage a fruit, vegetable and horticultural farm operation to produce plants, fruit, vegetables and other products for sale to visitors to the farm, at farmers' markets and via direct distribution to other vendors or resellers. The Licensee will in addition, allow the use of the premises by FIU faculty, staff, students, researchers and associates as a research site for Agroecology, Botany , the International Center of Tropical Botany, and any other discipline or project as deemed appropriate by FIU as well as use of the premises as an educational site. Due to an initial investment to secure the property (fencing), total expenses during the startup period will be $100,744 and stabilize at $45,958. Net revenues by year 5 from the workshops and the licensing agreement will offset startup expenses and years 1 through 5 operating costs.

B. Use Table 3 in Appendix A, to identify each facility or facilities required to establish the proposed educational site, and any additional facilities that will be required once the site has reached its expected size and enrollments. Include capital facility costs on the proposal cover page.

There are no additional facilities needed.

C. Describe ownership of the new location and provide documentation of ownership or lease agreements, to include any special clauses, easements, or deed restrictions. If the property is a gift, provide the gift agreement. Please provide information on the type of ownership if the site is leased or owned (if leased please provide information on the duration of the lease and the entity that owns the lease). If the site is joint-use, please provide the name of the other entity in the joint agreement as well as the total number of students this site will serve from year 1 through year 5.

The property is being gifted to FIU. As part of the gift agreement, FIU agrees to preserve the property and to recognize and preserve the agricultural and tropical botany tradition of the Donor's family and to preserve the rich agricultural tradition of South Miami-Dade represented in Homestead and the Redlands. There are no encumbrances on the property.

D. Are the facilities owned or leased by the University?

(X) Owned (upon transfer of title) ( ) Leased

VI. Addendum for International Campuses and Special Purpose Centers

If the proposed site is international, include a copy of any MOU or other agreements related to the site as an appendix

(X) The University certifies that all requirements of BOG Regulation 8.009(3)(f) have been met.

DocuSign Envelope ID: 9A3C8557-864B-4D1E-A5E8-BA4122CEA66F

TRANSFER & LIFE ESTATE AGREEMENT

THIS TRANSFER & LIFE ESTATE AGREEMENT (the "Agreement") is made this _____ day of _____, 2020 (the "Effective Date"), by and between **ROBERT L. BARNUM** (the "Donor") and **THE FLORIDA INTERNATIONAL UNIVERSITY BOARD OF TRUSTEES** (the "Donee").

WHEREAS, the Donor is the owner of those certain real estate parcels identified on Exhibit A, attached hereto and made a part hereof (collectively, "Property A"); and

WHEREAS, the Donor is also the owner of that certain real estate parcel identified on Exhibit B, attached hereto and made a part hereof (the "Property B") (Property A and Property B shall be sometimes collectively referred to as the "Property"); and

WHEREAS, the Donor wishes to preserve the Property and to recognize and preserve the agricultural and tropical botany tradition of the Donor's family and to preserve the rich agricultural tradition of South Miami-Dade represented in Homestead and the Redlands; and

WHEREAS, the Donor desires to make a charitable contribution to the Donee of the fee simple title to Property A; and

WHEREAS, the Donor desires to make a charitable contribution to the Donee of the remainder interest in Property B, reserving a life estate in the name of the Donor; and

WHEREAS, the Donee agrees to accept the gift of the Property subject to the terms below.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties hereby agree as follows:

1. Not later than three (3) days following the Effective Date of this Agreement, Donor shall deliver to Donee to the extent in Donor's possession or readily available to Donor: (i) any prior title insurance policy for the Property; (ii) surveys, environmental studies and any additional due diligence studies previously conducted on the Property; (iii) copies of the real property and personal property tax bills for the Property for the three (3) most recent tax years, together with proof of payment; (iv) copies of any agreements affecting the Property, including, but not limited to, service, supply and maintenance agreements, equipment leases and any other contracts or agreements related to or affecting the Property; (v) copies of any communications to and from governmental authorities regarding condition of, use or any other matter related to the Property; (vi) copies of any certificates, permits, licenses and other authorizations issued by appropriate governmental authorities for the use and operation of the Property; and (vii) any information regarding known defects, notices of noncompliance and any laws, or other material information which would affect Donee's ownership, use and operation of the Property.

2. Donee shall have forty-five (45) days from the date of this Agreement, or such additional time reasonably required by Donee, (the "Due Diligence Period") in which to conduct environmental, soil, physical, engineering and any additional feasibility studies with respect to the Property which it deems appropriate. Costs of these studies shall be borne by the Donee. Donor hereby grants to Donee and its representatives, employees, agents and contractors, the right and license to go onto the Property for the purpose of performing any such studies, activity, testing or investigations necessary or appropriate to the satisfaction of Donor.

3. During the Due Diligence Period, Donee shall, at its expense, also obtain a title search or a commitment for title insurance on the Property, whichever the Donee deems appropriate. If said title RLB

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search or commitment discloses any encumbrances or defects against the Property, Donor shall be obligated to correct, at its expense, said encumbrances or defects prior to transferring title.

4. At any time during or following completion of the due diligence contemplated above, Donee may notify Donor of its final decision to accept or reject title to the Property, in Donee's sole and absolute discretion.

5. If Donee accepts the Property, Donor shall execute warranty deeds transferring title to the Property at a date to be agreed upon by the parties, conveying title to the Property as set forth herein, together with any additional closing documentation satisfactory to Donee and Donee's title insurance company in order to allow for the issuance of a title insurance policy insuring title to the Property in the name of Donee (collectively, the "Closing Documentation").

6. Upon delivery of the Closing Documentation by Donor, the Donee shall record the warranty deeds and any other documents to be recorded in connection with the transfer of the Property and pay all recording fees and documentary taxes, if any.

7. Upon the execution and delivery of the warranty deed for Property A, Donee shall own fee simple title to Property A. Upon liquidation of Property A, the net proceeds shall be used for the benefit and support of the University.

8. As to Property B, during the term of the life estate:

a) The Donor shall use care and diligence in protecting the tropical botanical collection, consistent with the standards currently used by the Donor and consistent with the educational mission of the Donee. Any net revenue generated from production that takes place on Property B will be reinvested towards the preservation and maintenance of Property B. The Donee shall be responsible for the cost of all upkeep and repairs to Property B, and shall undertake maintenance and repair as necessary to maintain Property B.

b) The Donor shall continue to remain employed by Florida International University (the "University"), in his current capacity, and shall continue to provide services on Property A as Donor currently is providing, during the term of the life estate, subject to the University's policies and procedures as applicable from time to time.

c) The Donor shall be responsible for payment of all real estate taxes and special assessments levied against Property B as they become due. In the event that obligations become delinquent, the Donee shall have the option of paying said obligations to prevent Property B from being sold, but in such event, the Donee may then recover the cost of such payment, plus interest and reasonable attorney's fees, from the Donor through a mutually agreed repayment schedule, or by judgment from the appropriate court of law. The Donor agrees that any such delinquent amounts can also be deducted and/or set-off by the University from any compensation otherwise payable to the Donor by the University.

d) The Donor shall fully insure Property B for hazards and shall carry liability insurance in a minimum amount of Three Hundred Thousand Dollars ($300,000.00) on Property B. Said insurance policy or policies shall name the Donee as an additional insured as its interest may appear, and the Donee shall receive annual written notification that said policy or policies are in full force and effect.

e) The Donor shall pay all utility costs levied against Property B, other than the cost of reasonable personal internet access thereon, which shall be maintained at the cost of the Donee. RLB

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Should the Donor pay for such internet service, the Donee shall reimburse the Donor for the same within thirty (30) days of the Donor submitting a bill for the same.

f) The Donor shall comply with all laws, health and policy requirements with respect to Property B.

g) The Donor may make alterations, additions or improvements to Property B from time to time, subject to the written consent of the Donee.

h) The Donee shall have the right to inspect Property B from time to time to insure compliance with this Agreement.

i) Neither the Donor nor the Donee may encumber Property B without the express written consent of the other party.

9. Should the Donor wish to terminate the life estate early, the parties may agree to either:

a) Sell Property B at a mutually agreed upon price, with the net sale proceeds to be prorated based on the actual calculations of the Donor's remaining life estate at that time, or

b) The Donor may transfer the balance of his or her life estate to the Donee as an additional charitable gift at which time the Donee shall have fee simple title to Property B.

10. Upon the death of the Donor, the Donor's life estate interest in Property B shall terminate (if not otherwise terminated earlier), this Agreement shall terminate (if not otherwise terminated earlier) and fee simple title to Property B shall vest in the Donee. Upon liquidation of Property B, the net proceeds shall be used by the University for the benefit and support of tropical botany, or a similar endeavor to be determined by the University in its reasonable discretion. Notwithstanding the foregoing, for a period of six (6) months after the Donor's death, the Donor's brother, John M. Barnum, Jr. -- if living, or, if he is not then living; his sister, Beverly A. Barnum, if living, or, if she is not then living; his nephew, Jon Zachary Barnum, if living, or, if he is not then living; his niece, Cathryn Carden Darr, if living, or, if she is not then living; his nephew, Joseph Matthew Barnum, if living, or, if he is not then living; his niece, Cynthia Carden Anderson, if living, or, if she is not then living; his niece, Jennifer Nicole Steward, if living, or, if she is not then living; his niece, Karen Andrea Carden -- shall be permitted to access Property B, subject to reasonable notice and mutually agreed upon dates and times, to remove the Donor's household furnishings and effects, personal papers and all of his personal property and vehicles contained thereon, excluding all farming machinery, equipment, tools, top soil and other supplies, and the Donor's library, which excluded items shall go to the Donee. In the event no family member retrieves the described personal property within the six-month period following the Donor's death, all rights to such property shall be forfeited and the Donee may dispose of such property as it sees fit.

11. This Agreement may be amended only in writing and executed by both parties.

12. This Agreement shall be governed by the laws of the State of Florida. All actions and proceedings brought with respect to this Agreement shall be brought in Miami-Dade County, Florida.

13. This Agreement shall be binding on and inure to the benefit of the parties and their respective successors and assigns. RLB

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14. In the event any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision of this Agreement, but this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained in this Agreement. Furthermore, in the event that the application of any provision of this Agreement to any person or circumstance shall for any reason be held to be invalid, illegal or unenforceable, in whole or in part, or in any respect, then, and in any event, such invalidity, illegality or unenforceability shall not be deemed to affect the application of such provision to any person or entity or circumstance against whom or which such application is legal, valid and enforceable.

15. All Exhibits attached hereto are hereby incorporated herein by this reference and made a part hereof for all purposes.

16. This Agreement and any amendment or supplement thereto may be executed in two or more counterparts (each of which may bear the original signatures of all or some of the parties to this Agreement), and, if each of the parties to this Agreement has executed at least one such counterpart, then all such counterparts together shall constitute one and the same agreement with the same force and effect as if all signatures appeared on a single document. Any signature page of this Agreement or of such an amendment or supplement thereto may be detached from any counterpart thereof without impairing the legal effect of any signatures thereon, and may be attached to another counterpart thereof identical in form thereto but having attached to it one or more additional counterparts of the same or other signature pages to this Agreement. To the extent permissible under Florida law, a facsimile or electronically transmitted signature shall be deemed to constitute an original signature for the purposes of this Agreement.

17. Jury Trial Waiver. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, EACH OF THE PARTIES HEREBY KNOWINGLY, VOLUNTARILY, INTENTIONALLY AND IRREVOCABLY WAIVES ANY AND ALL RIGHT TO A TRIAL BY JURY IN ANY ACTION OR PROCEEDING TO ENFORCE OR DEFEND ANY RIGHT, POWER, REMEDY OR DEFENSE ARISING OUT OF OR RELATED TO THIS AGREEMENT, WHETHER SOUNDING IN TORT OR CONTRACT OR OTHERWISE, OR WITH RESPECT TO ANY COURSE OR CONDUCT, COURSE OR DEALING, STATEMENTS (WHETHER VERBAL OR WRITTEN) OR ACTIONS OF ANY PARTY RELATING TO THIS AGREEMENT; AND AGREES THAT ANY SUCH ACTION OR PROCEEDING SHALL BE TRIED BEFORE A JUDGE AND NOT BEFORE A JURY. EACH OF THE PARTIES ACKNOWLEDGES THAT THE PROVISIONS OF THIS SECTION ARE A MATERIAL INDUCEMENT TO THE ACCEPTANCE OF THIS AGREEMENT BY THE OTHER PARTY

18. Time is of the essence of this Agreement; provided however, should the date for any notice or performance under this Agreement fall on a date which is a Saturday, Sunday or a legal holiday in the jurisdiction where the Property is located or under federal law, then the time for such notice or performance shall be automatically extended until the next business day which is not such a Saturday, Sunday or legal holiday.

19. Any notice, communication, request, reply or advice, or duplicate thereof (hereinafter severally and collectively referred to as "Notice") in this Agreement provided or permitted to be given, made or accepted by either party to any other party must be in writing and be given or served by depositing the same in the United States mail, postpaid and registered or certified and addressed to the party to be notified, with return receipt requested, or by delivering the same in person to such party, addressed to the party to be notified, or by a nationally recognized courier service. Notice deposited in the mail in the manner hereinabove described shall be effective, unless otherwise stated in this Agreement, from and after RLB

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the expiration of three (3) days after it is so deposited. Notice given in any other manner shall be effective only if and when received by the party to be notified. For purposes of notice the addresses of the parties shall, until changed in writing in accordance with this Section 19, be as follows:

Donor:

Robert L. Barnum
Address: 14955 SW 214 Street
Miami, Florida 33187
Telephone Number: 305-235-1768
E-mail Address: possumplentious@yahoo.com

with a copy to:

Sandra L. Test, Esq._
Address: John H. Test, P.A.
12150 S.W. 128 Court, Suite 122
Miami, FL 33186
Telephone Number: 305-255-3924
E-mail Address: SLTest@johnhtestpa.com

Donee:

Florida International University
11200 S.W. 8th Street, PC 523
Miami, Florida 33199
Telephone Number: 305-348-2101
E-mail Address: kenneth.jessell@fiu.edu
Attention: Kenneth A. Jessell, Senior Vice President & CFO

with a copy to:

Florida International University
Office of the General Counsel
11200 S.W. 8th Street, PC 511
Miami, Florida 33199
Telephone Number: 305-348-2103
E-mail Address: generalc@fiu.edu
Attention: General Counsel RLB

(Signature page follows)

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IN WITNESS WHEREOF, the parties have executed this Agreement as of the date written above.

DONOR:

ROBERT L. BARNUM

DONEE:

THE FLORIDA INTERNATIONAL UNIVERSITY BOARD OF TRUSTEES

DocuSigned by:
KENNETH G FURTON
DD786B86F20C4CD...

~~Kenneth A. Jessell~~
~~Senior Vice President & CFO~~ KENNETH G FURTON
Provost and Chief Operating Officer

Approved by:

Kenneth G. Furton
Provost & Executive Vice President

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Exhibit "A"

PROPERTY A

Property A shall consist of the properties located in Miami-Dade County, Florida, with the following Folio Numbers:

Folio No. 30-6909-000-0305
Folio No. 30-6909-000-0211
Folio No. 30-6909-000-0400
Folio No.: 30-6909-000-0207 RLB

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Exhibit "B"

PROPERTY B

Property B shall consist of part of Folio No. 30-6909-000-0220, legally described as follows:

The South 1/2 of the Northeast 1/4 of the Southwest 1/4 of the Southeast 1/4, of Section 9, Township 56 South, Range 39 East. Said lands situate, lying and being in Miami-Dade County, Florida. RLB

FIU @ Possum Trot
Pro Forma

		FY 1 FY 2020-21	FY 2 FY 2021-22	FY 3 FY 2022-23	FY 4 FY 2023-24	FY 5 FY 2024-25	FY 6 FY 2025-26	FY 7 FY 2026-27	FY 8 FY 2027-28	FY 9 FY 2028-29	FY 10 FY 2029-30
Revenues											
Auxiliary Revenues		14,718	49,129	67,899	58,061	77,175	60,510	78,639	60,990	79,129	61,489
License Fees [1]	*$450*	*6,755*	*6,770*	*6,780*	*6,783*	*7,011*	*7,244*	*7,481*	*7,724*	*7,971*	*8,223*
Revenue Share [2]	*0.5%*	*508*	*835*	*908*	*957*	*957*	*957*	*957*	*957*	*957*	*957*
Workshops' Net Revenue [3]		*7,455*	*41,524*	*60,212*	*50,321*	*69,207*	*52,309*	*70,201*	*52,309*	*70,201*	*52,309*
Total Revenues		$14,718	$49,129	$67,899	$58,061	$77,175	$60,510	$78,639	$60,990	$79,129	$61,489
Expenses											
Direct Expenses		39,954	29,857	37,539	34,090	39,910	34,845	40,440	35,149	40,749	35,464
Salaries and Benefits [4]		*6,665*	*6,765*	*6,866*	*6,969*	*7,074*	*7,180*	*7,288*	*7,397*	*7,508*	*7,621*
OPS payroll [5]		*1,825*	*7,509*	*9,725*	*8,421*	*9,725*	*8,421*	*9,725*	*8,421*	*9,725*	*8,421*
Materials and Supplies [6]		*1,500*	*9,330*	*13,090*	*11,100*	*14,900*	*11,500*	*15,100*	*11,500*	*15,100*	*11,500*
Contractual & Professional Services [7]		*15,639*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Marketing [8]		*7,000*	*3,000*	*4,000*	*4,000*	*4,000*	*4,000*	*4,000*	*4,000*	*4,000*	*4,000*
Repairs & Maintenance [9]		7,100	2,000	2,040	2,081	2,122	2,165	2,208	2,252	2,297	2,343
Other Operating Costs [10]		225	1,253	1,817	1,519	2,089	1,579	2,119	1,579	2,119	1,579
Indirect Operating Costs		2,290	3,773	5,359	4,510	6,047	4,663	6,124	4,663	6,124	4,663
College Overhead [11]	*6%*	*450*	*2,507*	*3,635*	*3,038*	*4,178*	*3,158*	*4,238*	*3,158*	*4,238*	*3,158*
Shared Services Fee [12]	*7%*	*1,840*	*1,266*	*1,724*	*1,473*	*1,870*	*1,505*	*1,886*	*1,505*	*1,886*	*1,505*
Total Expenses		$42,244	$33,630	$42,897	$38,601	$45,958	$39,508	$46,563	$39,812	$46,873	$40,127
Non-Payroll Expenses		33,754	19,356	26,306	23,210	29,159	23,906	29,550	23,994	29,640	24,085
Required Capital Improvements [13]		$58,500	$0	$0	$0	$0	$0	$0	$0	$0	$0
Fence installation		$58,500	$0	$0	$0	$0	$0	$0	$0	$0	$0
Net Cash Flow [14]		($86,027)	$15,500	$25,002	$19,460	$31,217	$21,002	$32,076	$21,178	$32,256	$21,362
Terminal Value of Facility [15]		$2,575,000									

Year		1	2	3	4	5	6	7	8	9	10
PV of cash flow		(83,928)	14,753	23,217	17,630	27,592	18,110	26,985	17,381	25,828	16,688
Cumulative discounted cash flow		(83,928)	(69,176)	(45,959)	(28,329)	(738)	17,373	44,357	61,739	87,567	104,255
Discounted Payback Period [16]		5.04 Years									
Net Present Value [17]	*2.5%*	$104,255									

[1] License Fee is $450 per acre annually with a 2% escalation, less abatement for tenant improvements, less Tenant Improvement Allowances

[2] Revenue share of 0.5% on Licensee's Gross Revenues

[3] Revenue net of bad debt from 6 workshops, 3 of which are new and account for 59% of 5-Yr Workshop Revenues. Some workshops are held every other year.

[4] Administrators 0.05 FTE are needed to license the property to a third party and oversee non-credit workshops

[5] Workshop facilitators on an "as needed" basis

[6] Workshop materials

[7] Property appraisal, Environmental Assessment and recording fees

[8] Marketing & Promotion of workshops is 6.88% of revenues on average, and includes an additional $5,000 for outreach events in Y1

[9] Signage, lawn and parking maintenance

[10] Credit Card fees on Workshops

[11] College Overhead Rate is 6% of Revenues

[12] Share Services Rate is 7% of Operating Expenses

[13] Fence installation. The pro rata value will be recouped in the annual License Fees for the duration of the license agreement

[14] Negative cashflows are funded by the College's discretionary auxiliary activity number

[15] Terminal Value is based on resale at appraised value of $2,575,000

[16] Discounted Payback Period is 5.04 years discounted at 2.5%

[17] NPV is $104,254.84 discounted at 2.5% over 10 years

APPRAISAL REPORT

PREPARED FOR

FIU FOUNDATION, INC.

PROPERTY APPRAISED

POSSUM TROT ESTATE
14955 SW 214 STREET
MIAMI-DADE COUNTY, FLORIDA

DATE OF APPRAISAL

AUGUST 12, 2020

APPRAISERS

ROBERT E. GALLAHER, MAI CRE

ALBERTJ. ARMADA, MAI SRA

NO. 20034

Gallaher Valuation
COMMERCIAL APPRAISAL CONSULTANTS

August 14, 2020

Rafael G. Prohias, Esquire
Senior University Counsel
Office of General Counsel
Florida International University
11200 SW 8th Street, PC511
Miami, Florida 33199

Re: 14955 SW 214 Street
Miami Dade County, Florida

Dear Mr. Prohias,

As you requested, we have made an investigation and analysis in order to estimate the value of a 28.15-acre property, located in the Redland market area of south Miami-Dade County. The property is improved with an older single-family home and a wide variety of fruit trees. The property is described in detail in the following text, followed by the valuation analyses.

This is an update of a previous appraisal of most of this same property that we completed for the FIU Foundation in August 2018. The legal description was slightly different, but the total acreage count was very similar.

An important consideration as of the time of this valuation is uncertainty in all real estate markets caused by the Covid-19 virus and the nearly complete shutdown of the economy. What long-term impact the coronavirus will have on property values will not be known for some time and will directly depend on how long the population is prevented from returning to normal activity. The data and conclusions contained in this report are as of a point in time when the impact of the virus has resulted in over 150,000 deaths, while simultaneously states have terminated most, if not entirely all, stay-at-home orders and have opened their economies to the public at large. Miami-Dade County was under greater restrictions than many geographical areas, with gyms and other non-essential businesses ordered to close.

The subject property is identified by the Miami Dade County's Property Appraiser's Office by folio numbers as indicated in the following table:

Folio Number	Square Feet	Acres
30-6909-000-0207	412,077.6	9.46
30-6909-000-0211	86,684.4	1.99
30-6909-000-0220	217,800.0	5.00
30-6909-000-0305	206,256.6	4.74
30-6909-000-0400	303,177.6	6.96
Total	1,225,996.2	28.15

The valuation analysis, as presented, is based on the extraordinary assumption that the foregoing acreage figures are an accurate representation of the actual area of the property. We have no other data on which to base a value.

The entire acreage is zoned AU, Agriculture. Improvements consist of a single-family home and various utility buildings as well as a natural forest area and a wide variety of trees and plants cultivated for food and medicinal purposes. The individual trees are not part of this valuation.

The residence, based on our initial inspection in 2018, was found to be in poor to fair condition with most of the outside walls covered with overgrown vegetation. The basic structure appeared to be sound, age and use considered, and it is our opinion that the building does contribute to value.

We were able to find recent sales of various parcels of land in the general vicinity of the subject property that could be considered directly comparable to the subject site. The sales reported are considered to reflect current market conditions. The available data indicates a value of $85,000 to $90,000 per acre.

In our opinion, the total value of the subject land, as of August 12, 2020 was $2,500,000.

An additional investigation was made for sales of residences on an acre or more that were built prior to 1970. The sales prices for homes were reduced by their respective land value to indicate a net building value which was reduced to a value per square foot of building. That data was analyzed to reach an indication of the value of the subject residence. Based on the data, it is our conclusion that the contributory value of the residence is $75,000.

The combined value of the house and the land is $2,575,000.

This report is submitted in a format prepared in conformity with the Standards Section 2-2(a) of the Uniform Standards of Professional Appraisal Practice. Data, information, and calculations leading to the value conclusions are incorporated in the report following this letter. The report, in its entirety, including all assumptions and limiting conditions, is an integral part of, and inseparable from this letter.

Thank you for this opportunity to have been of service. If you have any questions regarding the report or if we can be of further help, please let us know.

Sincerely

Robert E. Gallaher, MAI CRE
State Certified General Real
Estate Appraiser RZ98

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SECTION 1 – APPRAISAL REPORT SUMMARY

Property Location:	14955 SW 214th Street, Miami Dade County, Florida
Appraisal Prepared For:	Florida International University
Interest Appraised:	Fee simple estate
Purpose of Appraisal:	Estimate market value
Intended Use of Appraisal:	Internal decision making
Extraordinary Assumptions:	That the acreage figures for the subject property as found in the county tax record are accurate
Hypothetical Conditions:	None
Date of Value: **Date of Inspection:** **Date of Report:**	August 12, 2020 August 12, 2020 August 14, 2020
Legal Description	Please refer to addenda section for legal descriptions.
Land Size:	28.15 acres
Zoning:	AU, Agriculture
Master Plan Designation:	Agriculture
Improvements:	Single-family residence and various other utility buildings, natural forest and a wide variety of fruit trees and other plants grown for food and medicinal purposes
Use	Agriculture; vacant (with a residential building)
Highest and Best Use:	Agriculture
Land Value **Improvement Value** **Market Value**	**$2,500,000** **$75,000** **$2,575,000**
Appraisal Number:	**20034**

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SECTION 2 • THE ASSIGNMENT

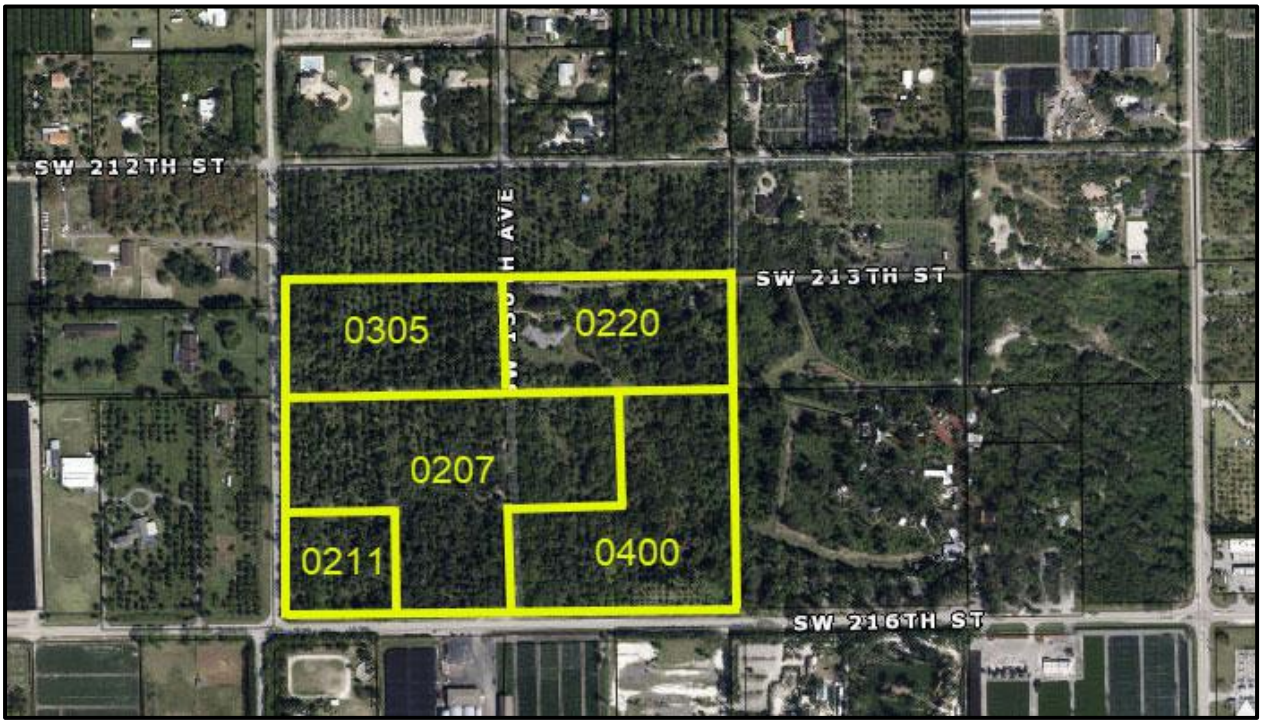
SUBJECT OF THE APPRAISAL

The subject of this appraisal is a 28.15-acre tract of agricultural land in southwest Miami-Dade County, Florida. The land is improved with a single-family home.

The county tax record breaks the site up into five district tax records as follows and as shown on the aerial photograph below:

Folio Number	Square Feet	Acres
30-6909-000-0207	412,077.6	9.46
30-6909-000-0211	86,684.4	1.99
30-6909-000-0220	217,800.0	5.00
30-6909-000-0305	206,256.6	4.74
30-6909-000-0400	303,177.6	6.96
Total	1,225,996.2	28.15

The five parcels are shown on the aerial photograph below, each labeled with the last four digits of its county tax folio number.



The 0220 parcel is improved with a residential building that appears to contribute to the value of the acreage. There are also various utility buildings scattered across the acreage, none of which adds to value.

The vegetation on the land consists of a wide variety of trees and plants grown for food and medicinal purposes. There is also a hardwood hammock and a small sinkhole. To the degree that the plant material at the property has unique or rare value, that value may be above and beyond the value of the real estate analyzed here. Identification of any plants that have additional value is beyond the scope of this report and beyond the expertise of the appraiser.

PURPOSE OF THE APPRAISAL

The appraisal assignment is to develop an opinion of the market value of the property as of the valuation date.

The definition of *Market Value* is shown at the addendum.

INTENDED USE/USERS OF REPORT

This appraisal is being prepared to aid in internal decision making regarding the subject property. The intended users of this report are the officials and staff of Florida International University.

PROPERTY INSPECTION

The property was inspected on August 12, 2020. The inspection was from the adjacent streets only.

This is an update of a previous appraisal of most of this same property that was completed in 2018.

EFFECTIVE DATE OF APPRAISAL

August 12, 2020

INTEREST APPRAISED

Fee simple estate.

See the addendum for the definitions of *Fee simple estate.*

SCOPE OF THE ASSIGNMENT

The valuation analysis, as presented, is based on the extraordinary assumption that the acreage figures as shown int the Miami-Dade County tax record are an accurate representation of the actual area of the property. We have no other data on which to base a value.

There were no other extraordinary assumptions or any hypothetical conditions or legal instructions considered in this valuation. These terms have very specific definitions within appraisal standards and the definitions are included in the addendum of the report.

In order to complete the assignment, the following steps were taken:

- The subject property and its surrounding neighborhood were inspected in sufficient detail to understand the location and market conditions impacting the subject property.
- We did not reinspect the interior of the property or the residence for this appraisal. We have relied on data from our 2018 valuation for building descriptions.
- Available zoning, record plat, ad valorem tax records and other documents were reviewed.
- Available public data concerning zoning, utilities, street dedications, ad valorem taxes, and land areas were reviewed to acquire a sufficient description of the subject property
- In order to complete the valuation of the property, an investigation was made for sales of similar properties in the general area of the subject. Using public and proprietary data bases, data was found to develop a sales comparison approach.
- An additional investigation was made for recent sales of parcels improved with single family homes in order to estimate the contributory value of the house found at the subject land.

SECTION 3 • MARKET CONDITIONS AND MARKET AREA

As 2020 began, the United States was still enjoying a robust economy, riding eleven years of economic expansion. And then the coronavirus pandemic hit, and a near-term recession is now a certainty.

GDP growth in 2019 declined a bit from 2018 levels (3.1% growth for the first quarter of 2019, but only 2.1% in the second, 2.0% in the third and 2.1% in the fourth; 2.3% for the full year). With the impacts of the Covid-19 pandemic in full effect by the end of the 1st quarter of 2020, GDP fell to -5.0%. Returns on the 10-year US Treasury note dropped to record lows as frightened investors sought stable investments.

The stock market continued at record levels from 2019 into 2020, but then fell dramatically as the US economy shut down in March. The Dow Jones Average increased from below 25,000 at the beginning of 2019 to over 29,000 at the end of the year, but then dropped over 10,000 points at the outbreak to a low below 19,000. Since that time the Dow has recovered to above 26,000 at this writing.

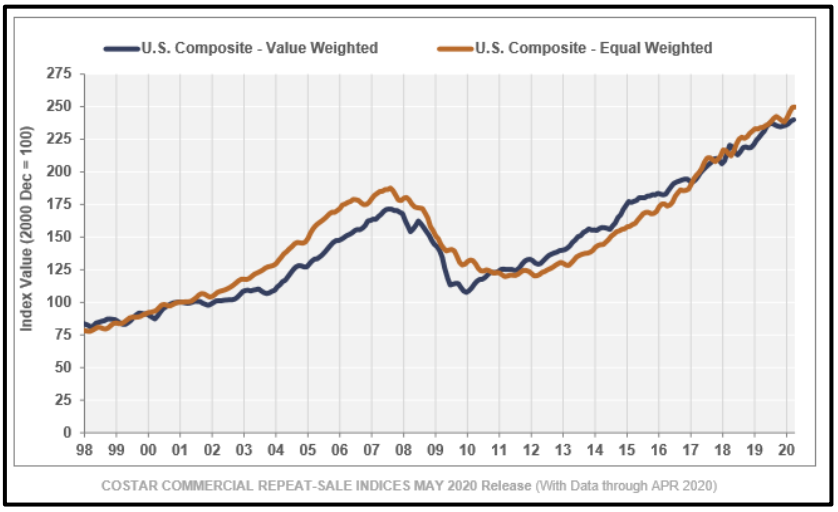
The Federal Reserve dropped the federal funds rate to zero at an emergency meeting in March, after a 50-basis point reduction at its earlier regular March meeting. The rate was last cut in October, which was the third rate cut in 2019. The rate had been increased nine times between the last recession and December 2018, but, before the virus, there was growing concern about the economy's ability to sustain long-run strength. President Trump's rampant imposition of tariffs had significantly impacted industries such as automobiles and construction, driving up the cost of materials. But the coronavirus has sent all market sectors into freefall. The Fed has not changed rates at any of its meetings since March.

In 2019, the administration successfully completed the renegotiation of the North American Free Trade Agreement, resulting in the United States-Mexico-Canada Agreement and changing some of the rules to favor US employment and opening up the Canadian dairy markets. More recent trade impositions have resulted in retaliatory tariffs with some of the country's largest trading partners, including China.

The figures below track the improvements as expressed in an unemployment rate for the local, state and national economies until the pandemic impact in the first quarter of 2020.

Location	Dec 2016	Dec 2017	Dec 2018	April 2019	Dec 2019	April 2020	June 2020
Miami-Ft Lauderdale	4.9%	4.1%	3.3%	2.9%	3.0%	11.9%	11.5%
Florida	4.9%	3.6%	3.3%	3.4%	2.9%	14.4%	13.7%
Nationwide	4.7%	4.6%	3.9%	3.6%	3.5%	14.7%	13.3%

Reports showed new housing starts surging 16.9% across the country, to a 13-year high in December 2019, a seasonally adjusted 1.608 million units. Housing starts in December were 40.8% higher than those a year earlier. 2019 starts overall were 3.2% over those of 2018. The Commerce Department reported housing starts declined in April by 26.4% and 19.0% in March. Record low interest rates are keeping buyers in the market and refinancing has continued throughout the coronavirus shutdown.



Over the past few years, improving market conditions had increased demand for quality commercial properties, compressing capitalization rates and raising prices for well-located stores, offices and warehouses with strong tenants. The April 2020 Commercial Repeat Sale Indices (CCRSI) report by CoStar, a nationally published market data research firm, shows current commercial real estate pricing as compared to earlier periods. Based on 613 repeat sale pairs in April 2020 and more than 226,600 repeat sales since 1996, the CCRSI offers a broad measure of commercial real estate repeat sales activity. Their US composite index showed a general recovery of commercial property pricing beginning in 2013 and continuing in an upward pattern. The data measures changes in the value of commercial real property (offices, apartments, retail stores, and warehouses).

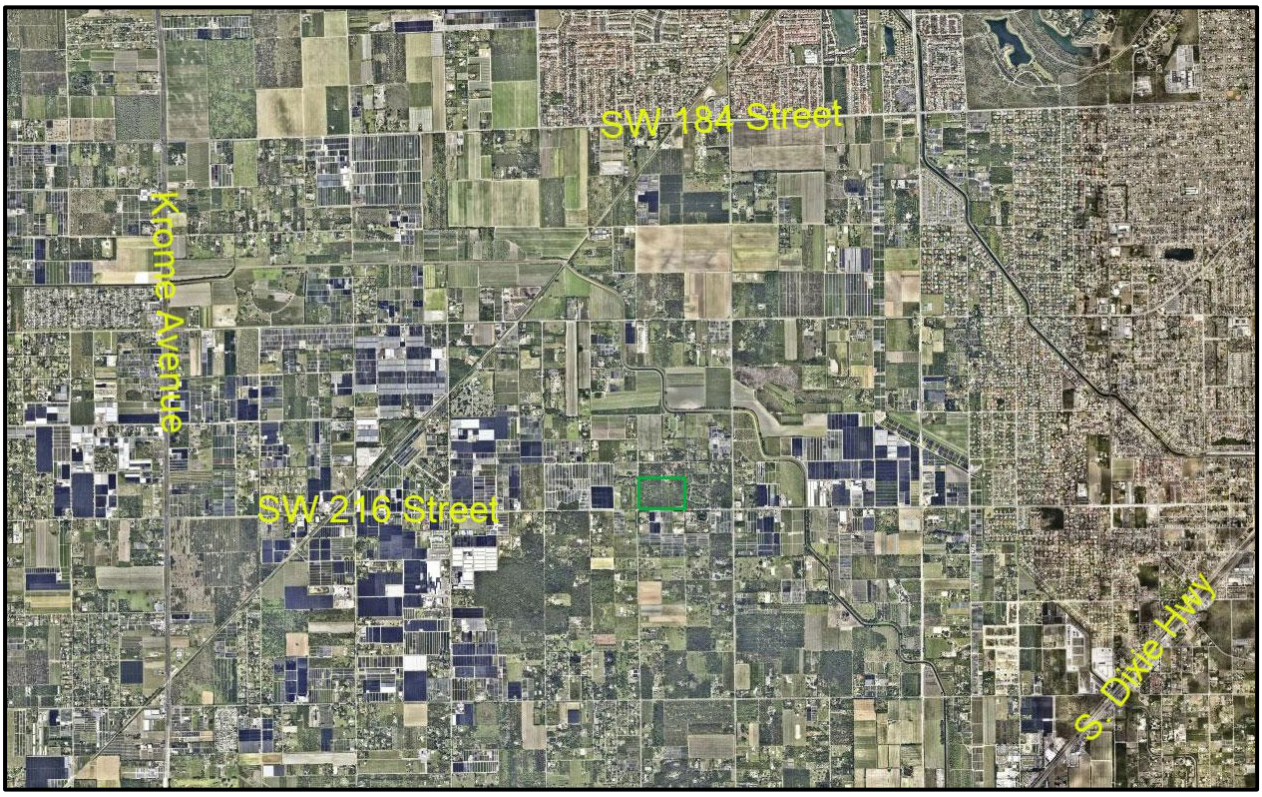
Prior to the virus outbreak the US economy faced rising interest rates and capitalization rates on commercial real estate were also expected to rise, putting downward pressure on property values. The historic low capitalization rates of 2018 and 2019 may now increase due to the increased risk of real estate ownership.

MARKET AREA

The subject land is located in southwest unincorporated Miami-Dade County in an area known as the Redland. The area is rural in nature with land used primarily for agriculture purposes. The Redland is generally bounded on the north by SW 184th Street and on the south by the northern limits of the city of Homestead, from just west of the South Dixie Highway corridor to the levy.

Being outside of the county's Urban Development Boundary (UDB), uses of land in the area are limited to agricultural purposes, with residential development limited to no more than one dwelling unit for each five acres. Actual uses range from residential estates to row crop farming to plant nurseries and fruit tree groves.

The aerial photograph below shows the rural nature of the area surrounding the subject (outlined in green). The very structured black, grey and white areas are shade houses for plant nurseries. Lighter green and beige areas are farm fields. Small dark green areas are grove land. Residential development is shown at the east periphery (right side of photo). The Castellow Hammock Preserve is the very dark green area at the lower center.



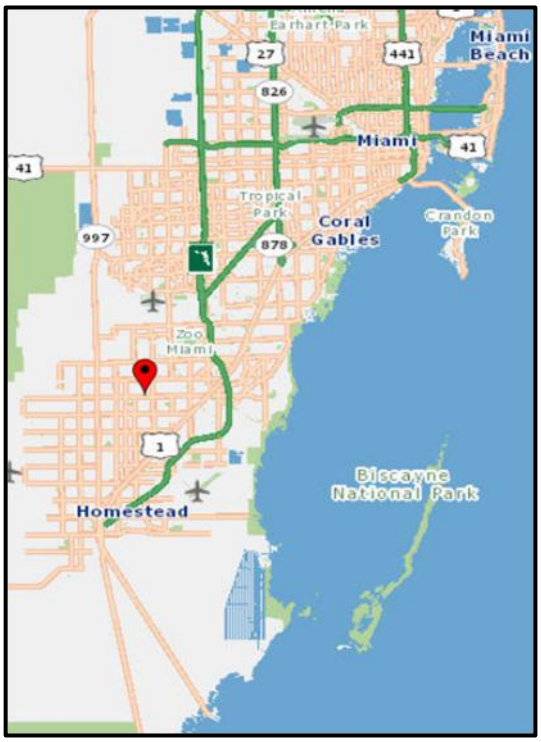
Miami-Dade County's Agricultural industry is one of the most diverse in the country. The area's tropical climate provides a year-round growing season, as well as the ability to produce an extremely wide range of crops. The industry employs more than 20,000 people and produces more than $2.7 billion in economic impact each year. The industry is a valuable resource for the county. Coupled with the economic benefits are environmental and aesthetic advantages. A farmer's land, in addition to producing crops, also acts as open space that allows for water recharge areas and wildlife habitat.

Immediately east of the subject, on SW 216th Street, is the Monkey Jungle, a 30-acre wildlife park, with a reported 500 primates. Paved parking lots are located along the 216th Street frontage to accommodate tourist vehicles.

The only commercial corridor in the area is along South Dixie Highway (bottom right hand corner of the aerial above), approximately 2½ miles to the east of the subject. There are also commercial nodes along Krome Avenue, about 2 miles to the west, but these commercial developments consist mostly of large gas stations and some bank branches.

In summary, the subject land is located in the rural Redland area of Miami-Dade County, an area of farms, nurseries, groves and five-acre estates.

SECTION 4 • DESCRIPTION OF THE REAL ESTATE



IDENTIFICATION OF THE SUBJECT PROPERTY

The subject of this appraisal is 28.15 acres of agricultural land improved with a residence and a variety of utility buildings. The land is located in unincorporated Miami Dade County.

LOCATION

The land is generally located at the northeast corner of SW 216th Street and SW 152nd Avenue.

The street address for the house is 14955 SW 214th Street, Miami-Dade County, Florida. But 214th Street is not dedicated or open.

LEGAL DESCRIPTION

The various tracts of land comprising the subject property are portions of Section 9, Township 56 South, Range 39 East, Miami-Dade County.

Please refer to the addenda section of this report for the complete legal description of the land.

OWNERSHIP AND HISTORY

According to county tax records, the land is held in the name of Robert L. Barnum.

ACCESSIBILITY

The overall 28.15-acre property is readily accessible, fronting on SW 216th Street (Hainlin Mill Drive), approximately 2½ miles west of South Dixie Highway (US Highway 1). The land also fronts on SW 152nd Avenue, but that roadway is a secondary neighborhood street that ends ½ mile north of 216th Street; it does extend south as far as 264th Street. The site has driveways to both 216th Street and 152nd Avenue.

The subject is not accessible via 214th Street, which is its street address. 214th Street is not open at this location.

SW 216th Street is the northernmost east/west traffic artery in the Redland, connecting South Dixie Highway (US Highway 1) with Krome Avenue (SW 177th Avenue). South Dixie Highway is about 3½ miles to the east and Krome Avenue is about 2½ miles to the west. These two roadways provide access to the rest of Miami-Dade County.

STREET IMPROVEMENTS

SW 216th Street and SW 152nd Avenue, each have a dedicated width of 50 feet at this location. They are paved with asphalt with a single traffic lane in each direction. There are no sidewalks, curbs, storm drainage or streetlights.

PRESENT USE

As of the date of valuation, the subject property is a vacant land, with a residence, several utility buildings and a wide variety of trees and plants grown for food and medicinal purposes.

ZONING

The subject land is zoned AU, Agriculture. This zoning classification allows agriculture uses or homesteading to a maximum density of one residential dwelling for each 5 acres.

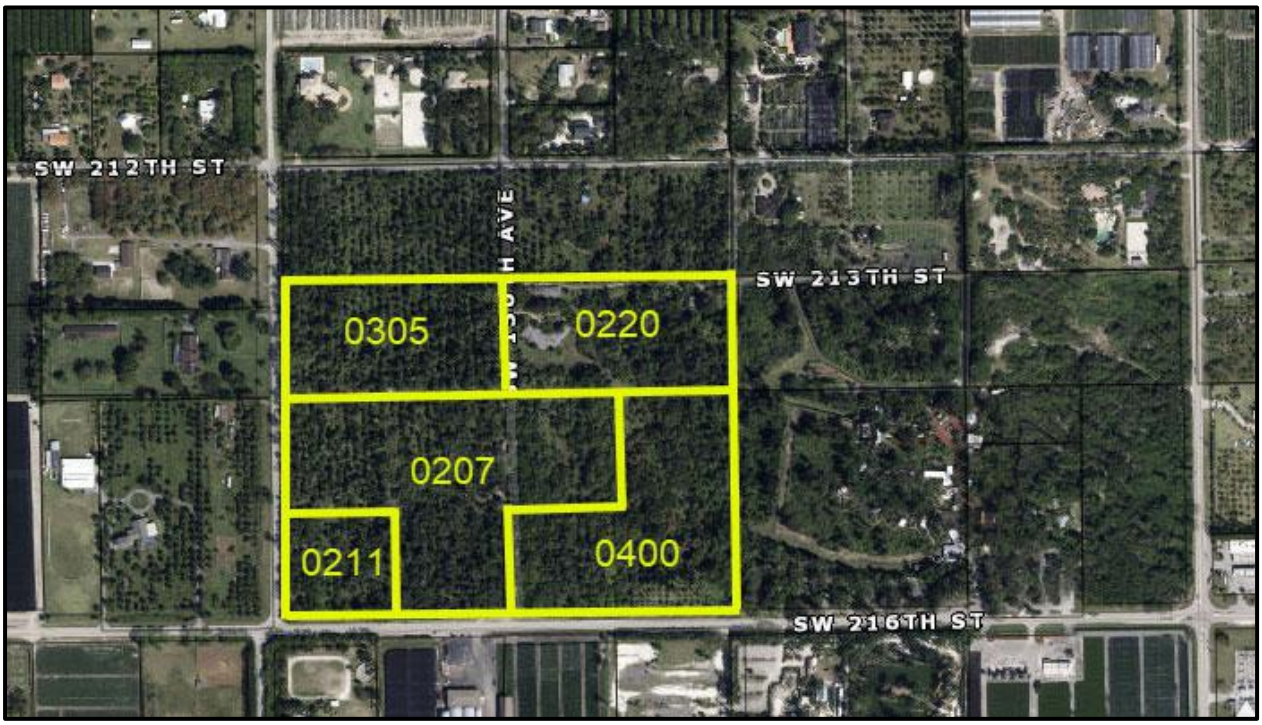
UTILITIES AND SERVICES

Electricity, provided by Florida Power and Light, is the only utility assumed to be available to the property as of the appraisal date. Water is supplied by means of a well. Sewage disposal is by septic tank.

Police and fire services are provided by Miami Dade County's Police Department and by the Miami Dade County's Fire and Rescue Department, respectively.

SHAPE AND SIZE OF LAND

The aerial photograph of the subject tracts shown earlier in Section 2 is repeated below. The photo shows the subject land divided into its tax folio parcels, each with the last four digits of its respective folio number.



The site is rectangular in shape. We do not have exact dimensions for the property, being limited to the legal descriptions for an estimate of the surface areas. It has just shy of 1,320 linear feet of frontage along SW 216th Street and approximately 960 feet of frontage along the east side of SW 152nd Avenue.

TOPOGRAPHY

The land is generally level and at street grade, except for a small sinkhole in the northerly portion of the 0400 parcel.

LISTING OF SUBJECT

As of the appraisal date, the property was not listed for sale on the open market.

ENVIRONMENTAL CONSIDERATION

While it is beyond the appraiser's expertise to determine the presence or extent of any environmental contamination at the subject 28.15-acre site, it is incumbent upon us to comment as to any visible signs or sources of potential contamination.

We noted no specific evidence of any toxic wastes or environmental contamination at the time of our inspection; detection of such conditions is beyond our expertise. If any environmental contamination were to be discovered in the future, it could materially affect the property's value.

IMPROVEMENTS

The property is improved with a single-family residence and a number of auxiliary structures scattered across the acreage. The principle facts and specification of the residence are as follows:

Year built -	1946, according to county tax records
Type of construction -	concrete block, stuccoed
Roof -	gable type, with tar and gravel cover
Exterior walls -	stuccoed and painted
Windows -	glass jalousie
Interior walls -	predominantly plastered and painted; cedar paneling at main living areas; ceramic tile wainscoting at bathrooms
Floors -	terrazzo; carpet on the terrazzo in some area; ceramic tile in the bathrooms
Ceilings -	Exposed cedar sheathing on wood rafters at main living areas; plastered and painted at smaller rooms
Condition -	the condition of the building was somewhat difficult to ascertain. Most of the exterior walls were covered with overgrown plant material and the interiors were dimly lit and, in many cases, obscured by personal property. The structure appeared to be in reasonably sound condition, age and use considered.
Contains -	Plans provided to us indicate a building area of 2,201 square feet. The layout of this structure has been modified over the years, but it appears to consist of three bedrooms and three bathrooms, a large living and dining area, a library and two kitchens, with a double car garage converted into storage space.
Equipment -	the residence reportedly has a central air conditioning system, although it was not being used at the time of our inspection. We also noted a water heater and a typical inventory of kitchen equipment (refrigerator, oven, range, etc.) at both kitchens. The grounds are equipped with an irrigation system, which the owner reported as not in use as of the time of the inspection.

According the records of the Miami Dade County's Property Appraiser's Office, the structures at the property have a total combined area of 8,000 square feet. The inspection of the subject property revealed a second residential structure referred to as the cottage, and sundry storage buildings, workrooms, and covered pump stations. Most of these structures were in poor to fair condition and thus were not considered to contribute to the overall value of the subject property.

The following photographs of the buildings were taken during our August 2018 property inspection.

View of the south elevation of the residence from the south lawn

View of the easterly elevation of the residence.

View of the large utility building located north of the residence

Pump house

Pump house

TREES AND PLANTS

During the course of our 2018 inspection we were given a tour of the grounds by the owner who recited a lengthy litany of species. Subsequent to the visit, he sent an inventory of plant material at the property. The list names 200 distinct species of tree or plant.

The rarity, utility or the value of all these plants are all well beyond the expertise of the appraiser. The value estimate contained herein is for the real estate (land and buildings) and does not include any contributory value of the plant material, which may or may not be significant. The collection of material is certainly broad and impressive.

ASSESSED VALUE AND TAXES

The 28.15-acres which is the subject property, consist of five tax parcels, each with their separate folio number. The following table reports the assessed value and the taxes for each of the folio numbers which constitute the subject property, along with a total for all five parcels.

Folio Numbers	Ft²	Land	Bldg.	Market Value*	Assessment	Taxes
30-6909-000-0207	412,077.6	$520,300		$520,300	$23,650	$418.73
30-6909-000-0305	206,256.6	284,100		284,100	11,838	209.61
30-6909-000-0220	217,800.0	219,380	$274,430	493,810	243,932	3,739.58
30-6909-000-0400	303,177.6	326,880		326,880	19,830	351.09
30-6909-000-0211	86,684.4	129,350		129,350	4,975	88.08
Totals	1,225,996.2			$1,754,440	$304,225	$4,807.09

**Market Value* according to the County Property Appraiser

The total current assessed value is equal to17% of the county's estimate of the market value of the parcels. The substantial discount is due to an agricultural exemption, which is common for this type of property.

SECTION 5 • HIGHEST AND BEST USE ANALYSIS

The highest and best use of a specific property is determined by the competitive forces within the specific market of which the property is a part. Consequently, the analysis of highest and best use is an economic study, one in which the available possible, legal and feasible uses must be compared. See the addendum for the definition of *Highest and Best Use.*

"Highest and Best Use", as defined, requires that any potential use be legally permissible, physically possible, financially feasible and provide the maximum return to the owner. The analysis is required both for the site alone, as though it were vacant and for the property as actually improved as of the appraisal date, if improvements are in place.

In view of the subject's current zoning classification as agriculture and its designation as agriculture under the Miami Dade County's Comprehensive Development Master Plan (CDMP), the highest and best use of the subject property as either vacant or improved is for agriculture uses.

The zoning code and the CDMP do permit residential development to a maximum density of one dwelling unit for five gross acres. At that rate the land could be developed with five or six houses. This use, considered the most intensive, would appear to be the "maximally productive" use of the subject property if for no other reason than increased market demand and marketing for such product. As five separate sites, the subject property would likely generate increased demand along with quicker sales than marketed as a single property.

In order that each portion of the property have street access, it may be necessary to dedicate and construct SW 150th Avenue, which appears on the aerial photographs shown earlier even though it does not currently exist.

SECTION 6 • VALUATION METHODOLOGY

There are three generally accepted approaches to the valuation of real estate –

> The depreciated cost approach, an estimate of the cost to reproduce the subject improvements, less the accrued depreciation, plus the value of the land;
>
> The income approach, the translation of a property's anticipated income production into a value estimate;
>
> And the sales comparison approach, a comparison of recent sales of similar properties to the subject, with appropriate adjustments made to the sales.

In this case, most of the value of the subject property lies in the 28 acres of land. In addition to the land, however, is one residential structure that may contribute to value. The primary focus of the valuation is therefore the value of the underlying land as vacant. The value of the dwelling will be addressed separately.

The three valuation methods above can apply to the valuation of vacant land. The most common and easiest to understand is the sales comparison approach in which recent sales of similar sites are compared to the subject and their respective prices used to indicate a value for the subject. Other methods include allocation (an expanded sales approach), extraction (a combination of sales and costs analyses), residual (a combination of sales and income analyses), ground rent capitalization (an income approach) and subdivision analysis (also a combining of the sales, income and cost approaches).

For purposes of this analysis we were able to find sales of similar vacant properties whose unit prices indicate the value of the subject land. Neither the income or the cost approaches were used because the sales comparison is preferred and most closely emulates the actions of the market.

All three valuation methods are available to us to value the dwelling – we could perform a depreciated cost approach, we could find rental information for similar homes (a rare occurrence, but possible) and we can compare the sales prices of similar sized homes in the Redland.

Having established the land value through the sales comparison approach, we have valued the dwelling unit also by the sales comparison approach, as well, but by extracting the value of the sale buildings from their overall property price. This data is presented following the land value analysis. A cost approach was deemed inaccurate due to the depreciation estimate for a 70-year old building.

The valuation begins with the Land Value Analysis on the following page.

Gallaher Valuation

SECTION 7 • LAND VALUE ANALYSIS

The Sales Comparison Approach is a process of comparing actual prices paid for comparable properties to the subject. This approach to value is based upon the Principle of Substitution, which holds that "the value of a property tends to be set by the price that would be paid to acquire a substitute property of similar utility and desirability within a reasonable amount of time."

The goal of the sales comparison approach is to present the most current and relevant sales data that can be used to indicate a value of the subject property. Limits are placed, therefore, on the geographical boundaries and the time period which are researched for relevant data. The sales data is compared to the subject on the basis of various elements of comparison which are cited below. Because adjustments for these relevant factors are generally market derived, the actions of typical buyers and sellers are reflected in the comparison process.

An investigation was made for recent sales of land considered similar to the subject land. We found 8 sales of acreage that can be compared to the subject property. All are similar in zoning class, either zoned agricultural (AU) like the subject property or interim (GU) which allows similar uses to the AU classification. The sales are summarized on the following schedule. They are arrayed in order of size, smallest to largest. The acreage count is based on county tax records and the precision of the amount of acreage in the record varies from 100ths of an acre to just full acres as shown below.

No.	Property Address	Date	Acres	Price	$/Acre
Sbjct	**14955 SW 214 St**	**Aug-20**	28.15		
1	NEC SW 240 St/202 Ave	May-20	5.00	$500,000	$100,000
2	15745 SW 232 St	Dec-19	5.00	425,000	85,000
3	25650 SW 182 Ave	Dec-19	5.00	440,000	88,000
4	SW 152 St - W of 167 Ave	Oct-19	5.00	400,000	80,000
5	SW 158 St-W of Krome	Mar-20	5.02	465,000	92,629
6	NWC SW 208 St/167 Ave	May-20	9.93	1,100,000	110,775
7	24155 SW 152 Ave	Apr-20	10.00	900,000	90,000
8	16400 SW 158th Ave	Aug-19	10.00	800,000	80,000

Sale 1 is five acres of lychee trees. It was purchased by an adjoining property owner, who would likely pay more for this land than a typical buyer. The site has no improvements other than the grove of trees and perimeter fencing. The site is at the corner of 202nd Avenue and 240th Street, though 240th Street is not paved. The property is found in the county tax record at folio number 30-6822-000-0075. The May 2020 warranty deed is recorded in Official Record Book 31837 at page 1756.

Sale 2 is a five-acre container nursery on 232nd Street, just over a mile southwest of the subject site. While not at a corner like the subject, the sale site has good accessibility fronting on another section-line road with access to both South Dixie Highway and Krome Avenue. This site is found in the tax record at folio 30-6917-000-0511 and the deed is recorded in ORBook 31758 at page 705.

Sale 3 a five-acre homesite on 182nd Avenue, south of 256th Street. The property is improved with a 1,500-square foot residence built in 1952. Most of the property is used as a nursery. The sale site is found at folio 30-6825-000-0430 and the deed is in ORBook 31734 at page 4643.

Sale 4 is five acres of open cropland. This site is about a mile east of Krome Avenue and just one-half mile west of the urban development boundary, where it intersects 152nd Street and then turns east for another mile. All of the land around the sale site is open farmland with no residences and no groves or nurseries. This is the northern periphery of the Redland market area. The sale is identified as 30-5930-000-0070 in the tax record. The deed is at ORBook 31747 at page 2995.

Sale 5 is a five-acre homesite in a private, gated community called Lindberg's Landing. Access to the neighborhood is through a secure gate for only residents and their guests. The subdivision lies on the west

side of Krome Avenue and many of the five-acre tracts (including the sale site) front on a grassed, private airplane landing strip. In fact, this site also fronts on a north/south taxiway for airplanes that might be stored on the lots on the south side of 158th Street, giving the site added flexibility in terms of where to place a hanger, should one be desired. The entrance to the community fronts directly on Krome Avenue. The tax record is 30-5825-000-0280. The buyer in this sale is the same corporation that purchased Sale 4.

Sale 6 is a ten-acre tract (less the road rights of way) on 167th Avenue at 208th Street, about a mile west of the subject. This site is being used as a truck staging site for a large nursery operation in the area. The site is approximately square in shape and both 167th Avenue and 208th Street are open and paved. The tax record is 30-6907-000-0140. The deed is found at ORBook 31947 at page 2918.

Sale 7 is a homesite on 152nd Avenue, about a mile and a half due south of the subject. This property is improved with a 4,700-square foot home built in 1956, but which appears to have been recently renovated. there is also a 1,900 square foot garage or utility building at the rear of the site and most of the land is planted with a fruit grove. The tax record for this property is 30-6921-000-0490. The deed is at ORBook 31924 at page 2015.

Sale 8 is another transaction for seasonal cropland; this one about a mile southeast of Sale 4 above. This tract is only about 600 feet west of the urban development line, which, at this point, runs along 157th Avenue. Tax record is 30-5929-000-1030. Deed is recorded in ORBook 31629 at page 1689.

Elements of Comparison

Elements of comparison are the characteristics of properties and transactions that cause the prices paid for real estate to vary. Adjustments for differences are made to the price of each comparable property to make the comparable equal to the subject on the effective date of the value estimate."[1]

The basic elements of comparison are as follows:

Real property rights conveyed
Financing terms (i.e. cash equivalency)
Conditions of sale (i.e. motivation)
Expenditures made immediately after purchase
Market conditions (i.e. time)
Location
Physical characteristics (e.g. size, access, condition, etc.)
Economic characteristics (e.g. lease provisions, expense ratios, etc.)
Use (e.g. zoning, water rights, environmental issues, building codes)
Non-realty components of value (e.g. business value, franchises)

The sales shown here were all fee simple interests. The sales were either for all cash or financed with institutional debt. None of the sales involved owner financing. The sales were arm's length transactions, with no apparent undue pressure on either the seller or the buyer and there were no significant post-closing expenditures that impacted the buyer's purchase price. All of the sales are considered current indicators of market conditions for the product type and market area. There were no known non-realty components of value.

While none of the parties to the sales appear to have been under pressure, the buyer at Sale 1 owns a large grove operation and a luxury residence adjacent to the sale site and may have been motivated to pay more for the property than a typical market buyer.

The sales are all located in the Redland market area, but from near the urban development boundary (UDB) to well beyond Krome Avenue. These location differences can impact pricing.

The sales reported occurred between August 2019 and May 2020 and are all considered indicators of value for the subject product type. The sale prices do not appear to have been impacted by the Covid-19

[1] The Appraisal of Real Estate, 14th Edition, The Appraisal Institute, Chicago

pandemic; the latest sale prices per acre are similar to the prices paid pre-pandemic. In fact, the four sales that closed in 2020 reflect the highest sales price per acre, ranging (including the value of improvements) from $90,000 (Sale 7) to $110,775 (Sale 6). The four 2019 sales show a range $80,000 (Sales 4 and 8) to $88,000 per acre (Sale 3).

Reviewing the elements of comparison above, we have focused on the relative locations of the sale sites and their physical characteristics.

Location

Generally, properties closer to the developed areas have historically exhibited higher per acre prices than properties further out west or south. The subject land benefits from its relatively close-in location, being on 216th Street at 152nd Avenue, about a mile and a half west of the UDB. As noted above, 216th Street is the northern-most street in the Redland that connects South Dixie Highway with Krome Avenue.

By comparison, Sale 1 ($100,000 per acre) is 2½ miles west of Krome, about halfway between Krome Avenue and the levy (beyond which is Everglades). But Sale 1 was also purchased by a large landowner adjacent to the sale site who appears to have paid a premium to enlarge their holdings in the immediate area.

Sale 3 ($88,000 per acre) is also located west of Krome Avenue, on 182nd Avenue. This property is improved with an older residence as well, which contributes to its value.

Relative location is considered in the final value conclusion below.

Physical Characteristics

The primary characteristics to be considered in valuing acreage is its size, its elevation and its accessibility.

The sales are all relatively similar in size, from 5 to 10 acres. All the sites are at a natural elevation for the area and are therefore all similar to the subject. There are differences in accessibility.

Sales 4 and 8 are accessible only by unpaved, graded farm roads. These “streets” are used by tractors and other farm vehicles and tend to be rutted, with very large potholes that are frequently full of water, masking their depth. All of the other sale sites are accessed via paved roadways.

While the difference in value for paved versus unpaved access is not large, it should be recognized in the value conclusion below.

The differences in the sizes of the sale tracts is accounted for by reducing the respective sales prices to a price per acre, the most common unit of comparison for the market area.

Conclusion

The sales data is repeated on the schedule below, arrayed in price per acre order, highest to lowest.

No.	Property Address	Date	Acres	Price	$/Acre
6	NWC SW 208 St/167 Ave	May-20	9.93	$1,100,000	$110,775
1	NEC SW 240 St/202 Ave	May-20	5.00	500,000	100,000
5	SW 158 St-W of Krome	Mar-20	5.02	465,000	92,629
7	24155 SW 152 Ave	Apr-20	10.00	900,000	90,000
3	25650 SW 182 Ave	Dec-19	5.00	440,000	88,000
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4	SW 152 St - W of 167 Ave	Oct-19	5.00	400,000	80,000
8	16400 SW 158th Ave	Aug-19	10.00	800,000	80,000

There is no apparent reason for Sale 6 to have sold at such a high per acre price ($110,775). We have therefore discarded this sale from further consideration.

Sale 1 ($100,000 per acre) was the sale to the adjoining owner. Therefore, it would be expected to set the high end of the range in spite of its far west location.

Sale 5 is the homesite in the gated community with an airstrip. The subject land would be expected to have a value below the $92,600 per acre indicated by this sale.

Sales 8 and 4 ($80,000 per acre) were the two tracts of cropland with no paved road access. They would be expected to set the low end of the range of value.

The remaining sales are all priced between $85,000 and $90,000 per acre, with the two highest sales in this range improved with houses.

Based on this market data, it is our conclusion that the market value of the subject land is in the range of $85,000 to $90,000 per acre. The subject's close-in location offsets the contributory value of the buildings found at Sales 3 and 7.

$85,000 per acre x 28.15 acres = $2,390,000 (rounded)
$90,000 per acre x 28.15 acres = $2,530,000 (rounded)

Based on this range of indicated values, it is our conclusion that the market value of the land as of the valuation date was $2.5 million, the logical rounding point in the range.

SECTION 8 • BUILDING VALUE ANALYSIS

We inspected the interior of the subject residence for our earlier appraisal in 2018. We did not reinspect the building for this appraisal update. In addition to the main residence, there were several other structures on the site used for storage. Most of these structures appeared to be in a very worn condition and thus were not considered to contribute to the overall value of the subject land.

The principal residential dwelling was considered to contribute overall to value. The quality of construction of this structure was considered above average, while its condition was considered fair to poor. The building is reported to have been constructed in 1946. Plans provided for review indicate that it has 2,201 square feet of space. Being built in 1946, the actual age of the structure is 72 years.

As mentioned in the *Valuation* section above, we have used a sales comparison approach to value the structure. A cost analysis was considered too subjective due to the depreciation component and the challenge of estimating accrued depreciation for a building of this age and condition.

In the sales comparison analysis, we deducted the land value at each sale from the sale price to indicate the net value of the improvements. This net improvement value was reduced to a price per square foot of building and that range of pricing was used to value the subject building.

The results of our investigation are reported on the table on the following page. All of the sales occurred within a year of the prior 2018 valuation date. Because of the minimal value of the residence we did not update the analysis. The sales were chosen because they are all in the general vicinity of the subject, have similar zoning, they all include about one acre or more of land and the buildings were all built prior to 1970. The sales price for each property is shown and the Land Value calculated at the same per acre values used to value the subject land as of 2018. The calculated Land Value is then deducted from the sales price to get a net Building Value. That Building Value is divided by the area of each dwelling unit to get a value per square foot ($/Ft²).

Sales of Improved Properties Illustrating Depreciated Value of Improvements

No.	Address	Price	B-Ft²	Year	L-Ft²	Acre	100K	DV	DV/Ft²
1	23346 SW 132nd Ave	$125,000	1,089	1940	47,916	1.10	110,000	15,000	13.77
2	25145 SW 144th Ave	$551,500	5,030	1952	200,812	4.61	461,001	90,499	17.99
3	13900 SW 248th St	$315,000	3,326	1939	98,228	2.26	225,500	89,500	26.91
4	22500 SW 187th Ave	$392,175	3,841	1928	108,900	2.50	250,000	142,175	37.02
5	16275 SW 208th Ter	$380,000	5,375	1956	32,234	0.74	73,999	306,001	56.93
6	27055 SW 157th Ave	$388,000	1,691	1952	114,998	2.64	263,999	124,001	73.33
7	24001 SW 142nd Ave	$450,000	3,571	1956	49,658	1.14	113,999	336,001	94.09
8	16715 SW 296th St	$275,000	1,876	1930	40,946	0.94	93,999	181,001	96.48
9	24601 SW 159th Ave	$278,000	1,922	1950	30,492	0.70	70,000	208,000	108.22
10	14455 SW 256th St	$305,000	1,756	1957	45,302	1.04	103,999	201,001	114.47
11	22840 SW 152nd Ave	$440,000	2,427	1948	44,867	1.03	103,000	337,000	138.85
12	20105 SW 264th St	$580,000	2,366	1969	108,900	2.50	250,000	330,000	139.48
13	14465 SW 256th St	$474,900	2,666	1954	44,431	1.02	102,000	372,900	139.87
14	14401 SW 192nd St	$408,500	2,245	1965	40,946	0.94	93,999	314,501	140.09
15	26500 SW 167th Ave	$570,000	3,148	1969	47,916	1.10	110,000	460,000	146.12
16	13275 SW 224th St	$395,000	2,013	1950	40,075	0.92	92,000	303,000	150.52
17	18240 SW 248th St	$552,000	3,052	1943	37,897	0.87	87,000	465,000	152.36
18	16625 SW 236th St	$445,000	2,088	1954	50,094	1.15	115,000	330,000	158.05
19	15251 SW 271 ST	$360,000	1,494	1955	36,051	0.83	82,762	277,238	185.57
20	19680 SW 304th St	$465,000	1,667	1956	49,223	1.13	113,000	352,000	211.16
								Mean	$110.06
								Median	$126.66

Gallaher Valuation

The net value of the improvements, ranges from $14 per square foot of living area to $211, with an average of $110. It is our opinion, notwithstanding the above average quality of construction of the subject primary residential structure, but in consideration to its poor to fair condition, that the depreciated value of the improvements should be toward the lower quartile of pricing, or between $14 and $57 per foot.

$14 per ft² x 2,201 ft² = $30,814
$57 per ft² x 2,201 ft² = $125,457

As noted in our prior appraisal, it was difficult to fully inspect the building due to the overgrown plant material against nearly every surface of the outside walls and the dimly lit interiors. We did note vegetation growing on the roof. The building has received no significant updating since original construction and is in poor to fair condition.

Base on the available data and the observed condition of the structure, it is our opinion that the contributory value of the primary residential structure is towards the lower end of the indicated range and we have concluded at $75,000, or $34 per ft².

SECTION 9 • RECONCILIATION

We were able to find eight sales of land considered reasonably comparable to the subject land. These sales were analyzed and their differences considered. Based on the sales data, we concluded that the value of the subject land was $2.5 million as of the current valuation date.

We have estimated an additional $75,000 as the contributory value of the residence based on the market data developed in our 2018 report. It is considered highly unlikely that the value of the building would change appreciably in the two-year interim.

Based on the available data, it is our opinion that the o value of the property as of the August 12, 2020 valuation date was $2,575,000, which is comprised of land value of $2,500,000 and a contributory value for the residence of $75,000.

SECTION 10 • MARKET VALUE CONCLUSION

In our opinion, the market value of the subject property, as of August 12, 2020 and subject to the extraordinary assumption that the land areas as found in the county tax record are accurate and subject to the assumptions and limiting conditions attached, was:

TWO MILLION FIVE HUNDRED SEVENTY-FIVE THOUSAND DOLLARS

($2,575,000)

Exposure Time

Appraisal standards require a comment on the estimated exposure time for the subject property, that is, the amount of time the property would have been exposed to the market in order for it to have sold on the valuation date at our market value estimate.

The markets for acreage properties have been relatively strong in south Florida over the past few years. In our opinion, for the subject property to have sold on the valuation date at our market estimate it would likely have been on the market for a period of three to six months.

Gallaher Valuation
COMMERCIAL APPRAISAL CONSULTANTS

CERTIFICATION
APPRAISAL REPORT NO. 20034

We certify that, to the best of our knowledge and belief:

- the statements of fact contained in this report are true and correct.
- the reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions and are our personal, impartial, and unbiased professional analyses, opinions, and conclusions.
- We have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
- We have performed prior appraisals of the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment
- We have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment.
- Our engagement in this assignment was not contingent upon developing or reporting predetermined results.
- Our compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal.
- Our analyses, opinions, and conclusions were developed, and this report has been prepared, in conformity with the Uniform Standards of Professional Appraisal Practice.
- We have made a personal inspection of the property that is the subject of this report.
- the analyses, opinions, and conclusions were developed and this report prepared in conformity with the requirements of the Code of Professional Ethics and the Standards of Professional Appraisal Practice of the Appraisal Institute.
- There was no other significant real property appraisal assistance to the persons signing this certification.
- the use of the report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives and by those of the Florida Real Estate Appraisal Board.
- as of the date of this report, we have completed the continuing education requirements for the State of Florida and for the Appraisal Institute.

Respectfully submitted,

ROBERT E. GALLAHER, MAI CRE
State Certified General Real Estate
Appraiser Certificate No. RZ98

Albert J. Armada, MAI, SRA
State Certified General Real Estate
Appraiser Certificate No. RZ397

August 14, 2020

ADDENDA

ASSUMPTIONS AND LIMITING CONDITIONS

This is an Appraisal Report which is intended to comply with the reporting requirements set forth under Standard Rule 2-2(a) of the Uniform Standards of Professional Appraisal Practice for an appraisal report. As such, the descriptions of the data, reasoning, and analyses that were used in the appraisal process to develop the appraiser's opinion of value are summarized.

It is assumed that the title to the subject property is good and marketable; and that the legal description of the property is correct; that the improvements are entirely and correctly located on the property described; and that there are no encroachments, encumbrances, restrictions on or questions of title to this property; but no investigation or survey has been made, unless otherwise stated.

The property is appraised free and clear of any or all liens and encumbrances unless otherwise stated in this report.

The market value estimate assumes prudent ownership and management of the herein appraised property.

The information as to the description of the premises, restrictions, and improvements to the property involved in this report is as has been submitted by the applicant of this appraisal, or has been obtained from sources believed to be authoritative. No warranty is given for its accuracy.

Unless otherwise specifically stated, the value given in this report represents the opinion of the signers as to the market value as of the appraisal date. Market values of real estate are affected by economic conditions, both local and national. Therefore, market values of real estate will vary with future market conditions affecting real estate.

It is assumed that there is full compliance with all applicable federal, state, and local environmental regulations and laws unless otherwise stated in this report.

It is assumed that all applicable zoning and use regulations and restrictions have been complied with, unless a nonconformity has been stated, defined, and considered in this appraisal report.

It is assumed that all required licenses, certificates of occupancy, or other legislative or administrative authority from any local, state, or national governmental, or private entity or organization have been or can be obtained or renewed for any use on which the value estimates contained in this report are based.

Any plot, plan or sketch in this report may show approximate dimensions and are included to assist the reader in visualizing the property. Maps and exhibits found in this report are provided for reader reference purposes only. No guarantee as to accuracy is expressed or implied unless otherwise stated in this report. No survey has been made for the purpose of this report unless otherwise indicated.

It is assumed that the utilization of the land and improvements is within the boundaries or property lines of the property described and that there is no encroachment or trespass unless otherwise stated in this report.

ASSUMPTIONS AND LIMITING CONDITIONS – continued

The appraiser is not qualified to detect hazardous waste and/or toxic materials. Any comment by the appraiser that might suggest the possibility of the presence of such substances should not be taken as confirmation of the presence of hazardous waste and/or toxic materials. Such determination would require investigation by a qualified expert in the field of environmental assessment. The presence of substances such as asbestos, urea-formaldehyde foam insulation, or other potentially hazardous materials may affect the value of the property. The appraiser's value estimate is predicated on the assumption that there is no such material on or in the property that would cause a loss in value unless otherwise stated in this report. No responsibility is assumed for any environmental conditions, or for any expertise or engineering knowledge required to discover them. The appraiser's descriptions and resulting comments are the result of the routine observations made during the appraisal process.

Unless otherwise stated in this report, the subject property is appraised without a specific compliance survey having been conducted to determine if the property is or is not in conformance with the requirements of the Americans with Disabilities Act. The presence of architectural and communications barriers that are structural in nature that would restrict access by disabled individuals may adversely affect the property's value, marketability, or utility.

This report covers the premises herein described only. Neither the figures herein nor any analysis thereof, nor any unit values derived there from are to be construed as applicable to any other property, however similar the same may be.

Possession of this report, or copy thereof, does not carry with it the right of publication.

The signers of this report do not authorize disclosure of all or any part of the contents of this report to the public through advertising, public relations, news, sales or other media, without the written consent and approval of the author, particularly as to valuation conclusions, the identity of the appraisers or firm with which they are connected, or any reference to professional associations to which they belong or designations which they may hold.

The market value herein is based on data available at the time of our investigation and analysis. Should any additional information be made available to us that would affect the value estimate, we reserve the right to adjust our figures accordingly.

The contract for the appraisal of said premises is fulfilled by the signers hereto upon the delivery of this appraisal duly executed.

Easement

The right to use another's land for a stated purpose.[2] An easement attaches to the property benefitted and is referred to as an *easement appurtenant.* The property whose owner acquires the easement is known as the *dominant tenement.* The property that is subject to an easement is known as the *servient tenement.*

Exposure Time

The estimated length of time the property interest being appraised would have been offered on the market prior to the hypothetical consummation of a sale at market value on the effective date of the appraisal; a retrospective estimate based on an analysis of past events assuming competitive and open market.[3]

Extraordinary Assumption

An extraordinary assumption presumes as fact otherwise uncertain information about physical, legal, or economic characteristics of the subject property, and, which, if found to be false, could alter the appraiser's opinions or conclusions.[4]

Fee Simple Estate

Absolute ownership unencumbered by any other interest or estate, subject only to the limitations imposed by the governmental powers of taxation, eminent domain, police power and escheat.[5]

Highest and Best Use

The reasonably probable and legal use of vacant land or an improved property, which is physically possible, appropriately supported, financially feasible, and that results in the highest land value.[6]

Hypothetical Condition

A hypothetical condition is that which is contrary to what exists but is supposed for the purpose of the analysis.[7]

Leased Fee Interest

A freehold (ownership interest) where the possessory interest has been granted to another party by creation of contractual landlord-tenant relationship (i.e., a lease). [8]

Leased Fee Value

The ownership interest held by the lessor, which includes the right to the contract rent specified in the lease plus the reversionary right when the lease expires[9]

A freehold (ownership interest) where the possessory interest has been granted to another party by the creation of a contractual landlord-tenant relationship (i.e. a lease).[10]

Leasehold Interest

The right held by the lessee to use and occupy real estate for a stated term and under the conditions specified in the lease[11]

Market Rent

"The most probable rent that a property should bring in a competitive and open market reflecting all conditions and restrictions of the lease agreement, including permitted uses, use restrictions, expense obligations, term, concessions, renewal and purchase options, and tenant improvements (TIs).[12]

Market Value

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[2] Appraisal of Real Estate 14th Edition, Appraisal Institute
[3] The Dictionary of Real Estate Appraisal, Fifth Edition, Appraisal Institute, 2010
[4] Uniform Standards of Professional Appraisal Practice, 2006 Edition
[5] The Dictionary of Real Estate Appraisal, Fifth Edition, Appraisal Institute, 2010
[6] Appraisal of Real Estate 13th Edition, Appraisal Institute
[7] Uniform Standards of Professional Appraisal Practice, 2006 Edition
[8] Dictionary of Real Estate Appraisal, Fifth Edition, Appraisal Institute
[9] Appraisal of Real Estate 13th Edition, Appraisal Institute
[10] Dictionary of Real Estate Appraisal, Fifth Edition, Appraisal Institute
[11] Appraisal of Real Estate, 13th Edition, Appraisal Institute
[12] The Dictionary of Real Estate Appraisal, Fifth Edition, The Appraisal Institute, Chicago

The most probable price, as of a specified date, in cash, or in terms equivalent to cash, or in other precisely revealed terms, for which the specified property rights should sell after reasonable exposure in a competitive market under all conditions requisite to a fair sale, with the buyer and seller each acting prudently, knowledgeably, and for self-interest and assuming that neither is under undue duress.[13]

Market value is the amount in cash, or on terms reasonably equivalent to cash, for which in all probability the property would have sold on the effective date of the appraisal, after a reasonable exposure time on the open market, from a willing and reasonably knowledgeable seller to a willing and reasonably knowledgeable buyer, with neither acting under any compulsion to buy or sell, giving due consideration to all available economic uses of the property at the time of the appraisal.[14]

"Value' as used in eminent domain statutes, ordinarily means the amount which would be paid for property on assessing date to willing seller not compelled to sell, by willing purchaser, not compelled to purchase, taking into consideration all the uses to which property is adapted and might reasonably be applied."[15]

Marketing Time

An opinion on the amount of time it might take to sell a real or personal property interest at the concluded market value level during the period immediately after the effective date of an appraisal.[16]

Surplus Land

Land that is not currently needed to support the existing improvement but cannot be be separated from the property and sold off. Surplus land does not have independent highest and best use and may or may not contribute value to the improved parcel. [17]

[13] Appraisal of Real Estate, 13th Edition, Appraisal Institute
[14] Uniform Appraisal Standards for Federal Land Acquisitions
[15] State Road Dept v. Stack, 231 So.2d 859 Fla. 1st DCA 1969) as quoted in the Florida Department of Transportation Supplemental Standards
[16] The Dictionary of Real Estate Appraisal (5th Edition)
[17] Real Estate Valuation in Litigation, Second Edition, J.D. Eaton, MAI, SRA, Appraisal Institute

Legal Descriptions of the Subject Property

30-6909-000-0207 – 9.46 Acres – The North ½ of the Southwest ¼ of the Southwest ¼ of the Southeast ¼ of Section 9, Township 56 South, Range 39 East, less the West 35 feet
And
The Southeast ¼ of the Southwest ¼ of the Southwest ¼ of the Southeast ¼ of the said Section 9, less the South 35 feet
And
The Northwest ¼ of the Southeast ¼ of the Southwest ¼ of the Southeast ¼ of said Section 9.

30-6909-000-0305 – 4.74 Acres – The South ½ of the Northwest ¼ of the Southwest ¼ of the Southeast ¼ of Section 9, Township 56 South, Range 39 East, less West 35 feet for right of way.

30-6909-000-0220 – 5 Acres – The South ½ of the Northeast ¼ of the Southwest ¼ of the Southeast ¼ of Section 9, Township 56 South, Range 39 East.

30-6909-000-0400 – 6.96 Acres – The Northeast ¼ of the Southeast ¼ of the Southwest ¼ of the Southeast ¼ of Section 9, Township 56 South, Range 39 East
And
The South ½ of the Southeast ¼ of the Southwest ¼ of the Southeast ¼ of Section 9, Township 56 South, Range 39 East, less the South 35 feet for right of way.

30-6909-000-0211 – 1.969 Acres – The Southwest ¼ of the Southwest ¼ of the Southwest ¼ of the Southeast ¼ of Section 9, Township 56 South, Range 39 East.

GALLAHER & BIRCH, INC., formerly known as Hedg-peth & Gallaher, Inc., was established as The Hedg-peth Company in 1967 by C. George Hedg-peth, MAI, who had been both a staff appraiser with The McCune Company and chief commercial appraiser with Dade Federal Savings and Loan Association. The company is a full service appraisal firm completing appraisal reports for all types of real estate ranging from single family residences to apartments, hotels, vacant land to shopping centers, industrial properties and office buildings.

The predominance of appraisal assignments over the years has been for properties located in Miami-Dade, Broward or Monroe Counties. By generally limiting the area of practice to South Florida, but addressing the analysis of all types of property from vacant land to complex, multipurpose commercial developments, the company has been able to assure a consistent high level of service to its clients.

Either through its individual appraisers or corporately, the company is an approved appraiser for a large number of local lending institutions as well as for the Federal National Mortgage Association, the State of Florida, Miami-Dade County and the cities of Miami, Coral Gables, Hialeah and Homestead. Corporate clients range from local builders and developers to national and international corporations. In addition, assignments have been completed for some of the largest and most prominent South Florida law, accounting and engineering firms. The following is a brief sample of the firm's clientele:

Lending Institutions
Bank United
Chase Manhattan Bank
Coconut Grove Bank
Community Bank of Florida
First National Bank of South Miami
Northern Trust Bank of Florida
Republic Federal Bank
SunTrust Bank Miami
TotalBank

Law Firms
Akerman Senteriftt
Bilzin Sumberg Baena Price & Axelrod
Brigham Moore
Earle & Patchen
Greenberg Traurig
Holland & Knight
Hicks & Schreiber
Kubicki Draper
White & Case
Kozyak Tropin Throckmorton

Corporations
Baptist Health South Florida
GEO Group, Inc
Manuel Diaz Farms
Mount Sinai Medical Center
Walt Disney World
Wendy's International

Institutional/Governmental Clients
Miami-Dade County
Miami-Dade County School Board
Miami Dade College
Florida Department of Transportation
Jackson Memorial Hospital
South Florida Water Management District

The company has provided litigation support, including expert testimony, for a variety of cases, including those involving deficiency judgments, divorce, zoning, bankruptcy and eminent domain. Consultation and appraisal review services are an integral part of the services offered.

Either corporately or through its employees, the company is a member of Chamber South, Commercial Real Estate Women, and the Commercial Industrial Association of South Florida (formerly the Industrial Association of Dade County), Miami Realtors.

CURRICULUM VITAE - ROBERT E. GALLAHER, MAI, CRE

Resident of Miami, Dade County, Florida since 1950
State Certified General Real Estate Appraiser, State of Florida (Certificate Number RZ98)
Licensed Real Estate Broker, State of Florida
Licensed Real Estate Instructor, State of Florida
Graduate of University of Florida, Gainesville, Florida
Awarded Bachelor of Science in Business Administration with Major in Real Estate, 1972

Employment: Gallaher & Birch, Inc. (formerly Hedg-peth & Gallaher, Inc., formerly The Hedg-peth Company) since September 1972; currently President
Partner - Esslinger Wooten Maxwell, Realtors 1984 to 1991

Appraisal Experience: Has participated in appraisals in Miami-Dade, Broward, Monroe and other counties in Florida of various types of residential and commercial properties, including office buildings, shopping centers, apartment developments, warehouses and hotels.

Expert Witness: Qualified as an expert in real estate valuation in Miami-Dade, Broward, Monroe, Palm Beach and Lee Counties, as well as in Federal Bankruptcy Court. Has testified in deposition and in trial in matters of eminent domain, bankruptcy, divorce, deficiency judgments and other issues

Member of:
Appraisal Institute, with designation MAI.
Certified Under Continuing Education Program through December 2022
The Counselors of Real Estate, with designation CRE
Chairman of South Florida Chapter 2004 to 2007 and 2013 to present
Fellow of the Royal Institution of Chartered Surveyors
Miami Association of Realtors (formerly: Miami and Coral Gables Boards of Realtors)
Chairman of Association for 1995-96
President 1982 and 1987-1988
Florida Association of Realtors
National Association of Realtors

Boards of Directors
Florida Savings Bank – 2001 to 2006
Consumers Savings Bank – 1991 to 1998
Advisory Board Jerome Bain Real Estate Institute at Florida International University
ChamberSouth – 2001 to 2011 (Chairman of the Board of Directors 2008-2009)
Dade County SurTax Advisory – 1984 to 1993

Instructor, having taught seminars and/or courses for:
Miami Dade College; the Appraisal Institute, the American Bar Association, The Florida Association of Realtors; and various local real estate associations and companies.
Nationally certified instructor for the Appraisal Institute
Nationally certified instructor of Uniform Standards of Professional Appraisal Practice

Currently President/Owner of Gallaher & Birch, Inc., (formerly Hedg-peth & Gallaher, Inc.). Has been officer, director and stockholder of several closely held corporations, including Sanctuary Farms, Inc., a farming venture in Collier County; Marina Bay, Inc., a shopping center development in North Miami-Dade County; Burlingame Group, Inc., an office space owner in Miami; Miller Ludlam LLC an owner of retail stores; and First Reserve, Inc., a corporate holding company that owned Esslinger-Wooten-Maxwell, Inc., a general real estate brokerage firm and which participated in the development of Gables Waterway Executive Center and the University Inn Condominium.

CURRICULUM VITAE – ALBERT J. ARMADA, MAI, SRA

Resident of Miami, Dade County, Florida since 1961
State Certified General Real Estate Appraiser, State of Florida (Certificate Number RZ397)
Licensed Real Estate Broker, State of Florida
Graduate of

Miami-Dade Junior College (now Miami-Dade College) – Awarded Associates of Arts degree, 1972
University of Florida, Gainesville, Florida - Awarded Bachelor of Arts, with Honors, in Psychology, 1974
University of Miami, Coral Gables, Florida – Awarded Certificate of Middle Management, 1979
Florida International University – Awarded Master of International Business, 1984

Consultant – Affiliated, as an independent sub-contractor:

Gallaher & Birch, Inc (2018 to present)
Hedg-peth & Gallaher, Inc (1997 to 2001)
Blazejack & Company (1988 to 1989)
The Republic Appraisal Company (1986 to 1987)

Employment: Armada Appraisal & Consulting Company, Principal/Appraiser/Consultant 1993 to Present

City of Miami in various positions, 1977 to 1993, including Property & Lease Manager (1984 to 1993); Acting Assistant Director, Finance Dept (1983 to 1984); Lease Manager (1982 to 1983); Projects Supervisor, Community Development Dept.(1980 to 1982); Administrative Assistant (1979 to 1980); Personnel Office, Human Resources Dept. (1977 to 1979)
Miami-Dade County, Program Director/Unit Supervisor, Dept. of Health & Human Resources (1975 to 1977)
State of Florida as Youth Counselor, Dept. of Health & Human Resources (1974 to 1975)

Special Magistrate – Miami-Dade County Value Adjustment Board (2008 to 2018)

Appraisal Experience: Has participated in appraisals in Miami-Dade, Broward, Monroe and other counties in Florida of various types of residential and commercial properties, including office buildings, shopping centers, apartments, warehouses and developments

Expert Witness: Qualified as an expert in real estate valuation in Miami-Dade Circuit and Family Courts. Has testified in deposition and in trial in matters of bankruptcy, divorce, deficiency judgments and other issues

Member of:

Appraisal Institute, with designations MAI and SRA.

Certified Under Continuing Education Program through December 2021
President of South Florida Chapter 2015
Director of South Florida Chapter 2009 to 2016

Former Member of:

Certified Commercial Investment Member of the National Association of Realtors (designation of CCIM); relinquished 2016
American Society of Appraisers (Designation ASA, Urban); relinquished 2012

Candidate for Miami Dade County Appraiser, August 2014

Has been a managing member or investor in Miller Ludlam LLC, an owner of retail stores; and 4-B Warehouses, LLC, an owner of multi-tenant warehouses.

GEOLOGICAL & ENVIRONMENTAL SERVICES, INC.

July 27, 2020

Mr. Rafael G. Prohias
Office of General Council
Florida International University
1120 S.W. 8th Street, PC 511
Miami, Florida 33199

Re: CRB Project FIU 236-08; Initial Phase I Summary for the Agricultural Property Located on the Northeast Corner of S.W. 216th Street and S.W. 152nd Avenue in Miami, Miami-Dade County, Florida and Identified as Folio Numbers 30-6909-000-0207, 30-6909-000-0211, 30-6909-000-0220, 30-6909-000-0305, and 30-6909-000-0400

Dear Mr. Prohias:

CRB Geological & Environmental Services, Inc. (CRB) is pleased to provide you with this initial Phase I Environmental Site Assessment (Phase I) Summary for the above referenced property (the "Site"). This Phase I summary consisted of a review of previous reports, a review of historical records, and a site inspection. Based on the results of these initial activities, Recognized Environmental Conditions (RECs) were identified, and additional assessment is recommended.

Previous Reports

In 2014 CRB conducted a Phase I of a portion of the Site (this previous Phase I did not include folio 30-6909-000-0220 [part of the current Phase I] and instead included folio 30-6909-000-0300 [not a part of the current Phase I]). Results of the Previous Phase I identified electrical transformers as a low-risk REC and an aboveground storage tank with a diesel-powered pump and agricultural use of the Site as moderate-risk RECs. Additional assessment was recommended.

To assess the RECs identified in the previous Phase I, soil and groundwater testing were conducted in 2014, 2015, and 2018. Results of the testing activities identified arsenic concentrations above the Cleanup Target Levels (CTLs) but consistent with background concentrations and chromium above the Leachability Target Level but not leaching into the groundwater at concentrations above the CTLs (based on a groundwater sample). In addition, dieldrin in the soil was reported as above the Leachability Target Level. CRB subsequently installed and sampled a monitoring well in the area with the highest dieldrin concentration, and based on the groundwater results, dieldrin did not appear to be leaching to the groundwater at concentrations above the CTL. Based on these data, no additional assessment was recommended if the Site usage does not change. However, if soils are removed from the Site, the soils must be properly disposed of.

Historical Records

CRB reviewed the historical city directories, topographic maps, fire insurance maps, and aerial photographs.

The Site appeared to be undeveloped, vacant land in the 1938 aerial photograph. By 1952 the Site appeared to be agricultural and remained agricultural through the 2018 aerial photograph. In addition, beginning in the 1968 aerial photograph, a residential structure was present on the northeastern parcel.

Site Inspection

On July 24, 2020 CRB personnel conducted a visual inspection of the Site. The areas of the Site previously inspected appeared to be in a similar condition as was documented in the previous Phase I. The Site consisted primarily of a tree farm. The pump and diesel tank previously documented as a REC remained and continued to appear to be unused. No additional evidence of releases was observed associated with this pump and tank. One (1) storage container remained in the southern portion of the Site as was documented in the previous Phase I. This storage container was inaccessible at the time of the Site inspection.

The northeastern portion of the Site (not included in the previous Phase I) consisted of a tree farm, as well as an unoccupied residential structure and several sheds. The residential structure and interior portions of the sheds were inaccessible but appeared to contain typical maintenance equipment. One (1) tank consistent with those typically used for pesticide/herbicide applications was observed in this area of the Site. In addition, an unlabeled container possibly containing pesticides/herbicides were observed in the tree area. One (1) diesel-powered pump and associated aboveground storage tanks (ASTs) were observed. While the ASTs were located in a concrete secondary containment unit, the diesel-powered pump was only on a concrete slab. Some staining was observed on the concrete slab. An unused AST and gas and oil containers were observed on the open ground between the residential structure and a storage shed. These appeared to be empty. Staining or distressed vegetation was not observed.

Discussion, Conclusions, & Recommendations

As part of the initial Phase I activities, CRB reviewed previous reports, reviewed historical sources, and conducted a Site inspection. Based on these activities, CRB identified the following RECs: 1) the documented dieldrin soil impacts at the Site, 2) the historical agricultural use of the Site and the likely application of agrichemical plant treatments, 3) the additional diesel-powered pump and associated ASTs, 4) the improper storage of oil and gasoline containers and unused ASTs on the open ground. To assess potential impacts to the Site associated with the identified RECs, CRB recommends additional assessment.

If you have any questions or require any additional information, please do not hesitate to contact one of us at (305) 447-9777.

Sincerely,
CRB Geological & Environmental Services, Inc.

Frederick R. Baddour, P.G.
Senior Project Manager

Doug Lowell
Project Manager

GEOLOGICAL & ENVIRONMENTAL SERVICES, INC.

August 25, 2020

Mr. Rafael G. Prohias
Office of General Council
Florida International University
1120 S.W. 8th Street, PC 511
Miami, Florida 33199

Re: CRB Project FIU 236-08; Phase II Summary Report for the FIU Possum Trot Site, located on the Northeast Corner of S.W. 152nd Avenue and S.W. 216th Street, in Unincorporated Miami-Dade County, Florida

Dear Mr. Prohias:

CRB Geological & Environmental Services, Inc. (CRB) is pleased to provide you with this Phase II Summary Report (Phase II) for the above referenced property (the "Site"). This Phase II was recommended and completed to assess potential impacts to the Site associated with the Recognized Environmental Conditions (RECs) identified in the Phase I ESA prepared by CRB and dated July 27, 2020. The identified RECs included: 1) known and suspected dieldrin impacted soils; 2) the historically agricultural use of the Site; and 3) improper storage of oil and gasoline containers and a petroleum AST. A Site Location Map is included as Figure 1.

This Phase II included soil and groundwater testing. Results of this Phase II identified detections of the contaminants of concern at the Site, but no exceedances were reported. Historically, leachability soil exceedances were identified at the Site, but no groundwater impacts were reported. The current and historic data document that agricultural site operations have impacted the Site. If the pesticides were applied in accordance with the manufacturer's recommendations, and the Site usage will not change, no additional assessment and/or remediation is required. However, if any soils are removed from the Site, the soil must be properly disposed, and if the site usage changes, site assessment activities and/or environmental cleanup may be required.

Soil Testing

On August 11, 2020, CRB personnel were onsite to advance soil borings SB-8 through SB-15, as shown on Figure 2. Soil borings SB-10 and SB-11 were advanced near the areas of petroleum equipment storage and areas of improperly stored petroleum containers and an AST on the open ground. Other samples were collected from throughout the agricultural areas. The soil borings were advanced using a stainless-steel auger to a total depth of approximately one-half (0.5) foot below grade, and a sample was collected from the surface to one-half (0-0.5') interval.

The soil samples were placed on wet ice and transported to Pace Analytical Services, LLC (Pace) in Pompano Beach, Florida, using proper chain of custody protocols to control the transfer of the samples. Pace analyzed the soil samples for Organochlorine Pesticides (OCP) by EPA Method

8081 and arsenic by EPA Method 6010. In addition, soil samples SB-10 (0-6") and SB-11 (0-6") were analyzed for Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270, Total Recoverable Petroleum Hydrocarbons (TRPH) by Method FL PRO, and cadmium, chromium, and lead by EPA Method 6010.

TRPH, metals, and pesticides were detected in the soils, but all reported concentrations were compliant with the applicable Cleanup Target Levels (CTLs)[1].

As part of the previous Phase II activities, chromium and dieldrin were also reported above the leachability CTLs at the Site. However, groundwater exceedances were not reported in these areas of the Site, and it did not appear that these contaminants were leaching into the groundwater at concentrations that exceed the Groundwater CTLs.

A summary of the current and historical soil laboratory analytical results is included as Table 1, and the laboratory analytical reports and chain of custody record are included in Attachment A.

Groundwater Testing

On August 11, 2020, CRB personnel were onsite to install monitoring wells MW-3, MW-4, and MW-5. Monitoring well MW-3 was installed in the agricultural area. Monitoring well MW-4 was installed near a pesticide application tank and monitoring well MW-5 was installed near an area of petroleum storage. The locations of the monitoring wells are shown on Figure 2. The monitoring wells were installed with a track mounted Geoprobe using the direct push method to a depth of approximately twenty-two (22) feet below grade. The monitoring wells were constructed of 1-inch diameter Schedule-40 polyvinyl chloride (PVC) pipe with ten (10) feet of 0.01-inch slotted screen, followed by a riser extending above land surface.

After developing the monitoring wells until the groundwater ran clear, monitoring wells MW-1 through MW-5 were sampled. The groundwater samples were placed on wet ice and transported to Pace using proper chain of custody protocols to control the transfer of samples. Pace analyzed the samples for OCP by EPA Method 8081 and arsenic by EPA Method 6010. In addition, the groundwater samples from monitoring wells MW-1 and MW-5 were analyzed for Volatile Organic Aromatics (VOAs) by EPA Method 8260, PAHs by EPA Method 8270, and cadmium, chromium, and lead by EPA Method 6010.

Pesticides were detected in the groundwater sample from monitoring well MW-5 but at concentrations compliant with the CTLs[2].

As part of previous Phase II activities at the Site, groundwater testing was conducted and did not identify any groundwater exceedances.

[1] Arsenic in current soil sample SB-11 (0-6") and historical soil samples SB-1, SB-2, and SB-3 were reported as above the Chapter 62-777, F.A.C. CTL but was below the Miami-Dade County background level for this portion of the county. Dieldrin in soil SB-15 (0-6") was reported as 0.0024 mg/kg, which when rounded to the correct number of significant figures is compliant with the soil CTL.

[2] Dieldrin was reported as 0.019 ug/L and qualified with an "I", indicating that the concentration was an estimate and between the MDL and PQL. Although the estimate was above the groundwater CTL, this does not represent a groundwater exceedance.

A summary of the current and historical groundwater laboratory analytical results is included in Table 2, and the laboratory analytical reports and chain of custody record are included in Attachment A.

Discussion, Conclusions, & Recommendations

To determine if the RECs identified in the Phase I ESA impacted the Site, CRB recommended and conducted this Phase II, including the installation and sampling of three (3) monitoring wells and the collection and analysis of eight (8) soil samples, as well as analyzing previous Phase II data.

As part of this Phase II, contaminants of concern were detected in the soil and groundwater at the Site but at concentrations that complied with the respective CTLs. Historically, chromium and dieldirn was reported in the soil at the Site as above the leachability CTL but below the residential and commercial CTLs. Groundwater testing from these areas did not identify groundwater exceedances, indicating that the contaminants are not likely leaching from the soil into the groundwater in excess of the CTLs, and no further assessment is recommended.

The current and historic data document that agricultural site operations have impacted the Site. If the pesticides were applied in accordance with the manufacturer's recommendations, and the Site usage will not change, no additional assessment and/or remediation is required. However, if any soils are removed from the Site, the soil must be properly disposed, and if the site usage changes, site assessment activities and/or environmental cleanup may be required.

If you have any questions or require any additional information, please do not hesitate to contact either of us at (305) 447-9777.

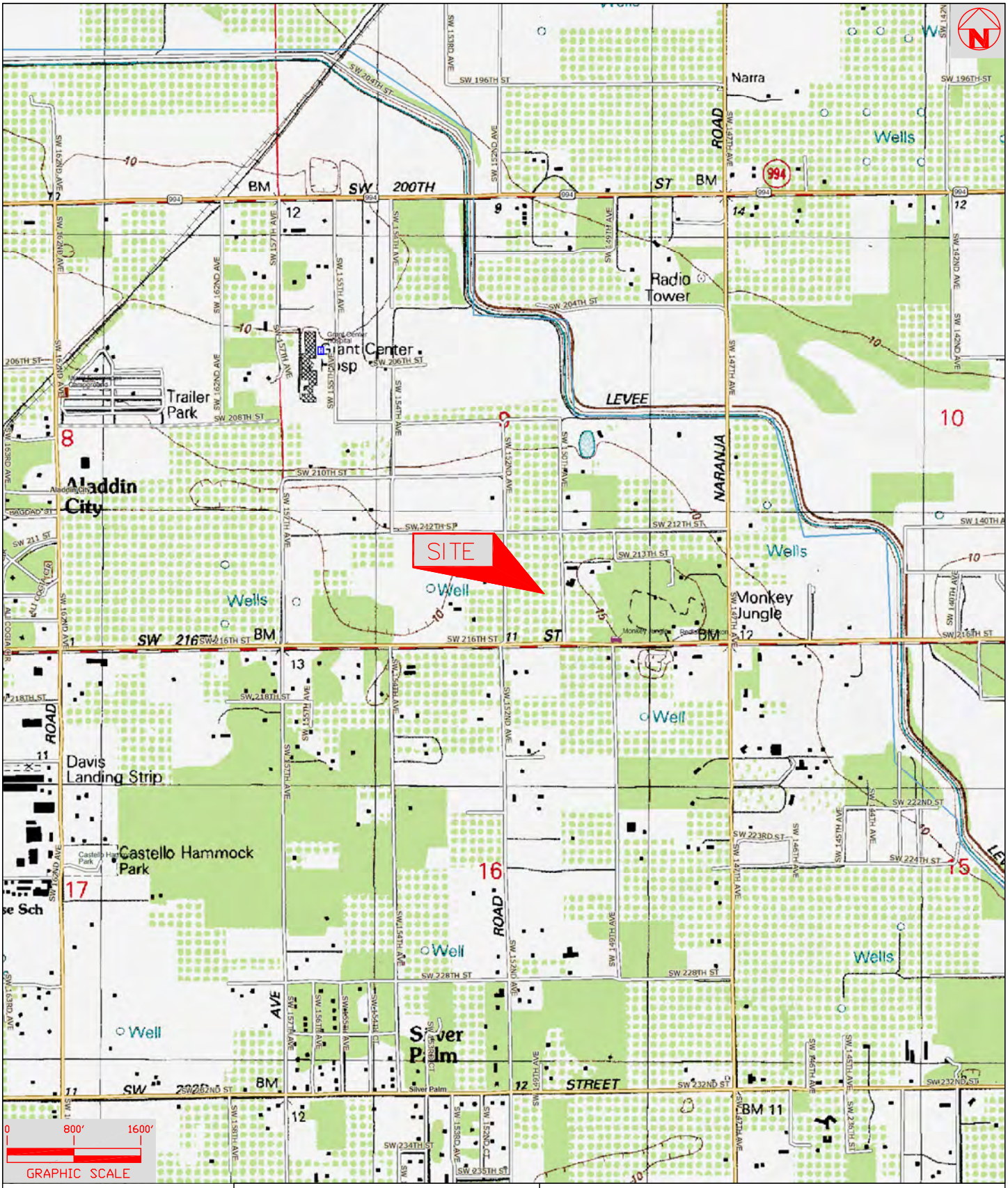
Sincerely,
CRB Geological & Environmental Services, Inc.

Frederick R. Baddour, P.G.
Senior Project Manager

Doug Lowell
Project Manager

Attachments

FIGURES



CRB

Geological & Environmental Services, Inc.
8744 SW 133rd Street
Miami, Florida 33176
Tel: (305) 447-9777
Fax: (305) 567-2853

TITLE:

SITE LOCATION MAP
AGRICULTURAL PROPERTIES
S.W. 216th STREET & S.W. 152nd AVENUE
MIAMI, FLORIDA

REV'D DATE:	JUL 28, 2020	PROJECT NO. FIU 236-08	FIGURE 1
DRAWN DATE:	JAN 27, 2014	SCALE: AS NOTED	
DRAWN BY:	LA	APPROVED BY: BC	

FIU 236…\08…\Reports\2020 08 Phase I\CAD\F1- Site Location Map

SOURCE: GOOGLE EARTH

CRB
Geological & Environmental Services, Inc.
8744 SW 133rd Street
Miami, Florida 33176
Tel: (305) 447-9777
Fax: (305) 567-285

TITLE: SITE MAP WITH SURROUNDING PROPERTIES
AGRICULTURAL PROPERTIES
S.W. 216th STREET & S.W. 152nd AVENUE
MIAMI, FLORIDA

REV'D DATE:	AUG 24, 2020	PROJECT NO. FIU 236-08	FIGURE 2
DRAWN DATE:	JAN 27, 2014	SCALE: AS NOTED	
DRAWN BY:	LA	APPROVED BY: DB	

FIU 236…\08…\2020 07 Reports\Phase I\CAD\F2- Site Map

TABLES

Table 1 - Summary of Soil Analytical Results
Agricultural Property
15055 S.W. 216th Street
Miami, Florida

Sample ID	Date	TRPH	Arsenic	Cadmium	Chromium	Lead	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	Total Xylenes	Aldrin	Alpha-Chlordane	Gamma-Chlordane	Dieldrin	Endosulfan Sulfate	Heptachlor	Heptachlor Epoxide
SB-1	3/21/2014	20.5	2.2	0.64	**72.9**	13.0	0.023 I	0.026 I	0.034 I	0.029 I	0.028 I	0.028 I	0.026 I	0.026 I	0.028 I	0.027 I	0.028 I	0.029 I	0.0085 I	NA	NA	NA	NA	NA	NA	NA
SB-2	3/21/2014	10.2 U	6.8	1.7	**140**	25.4	0.15 U	0.15 U	0.14 U	0.056 U	0.17 U	0.10 U	0.17 U	0.14 U	0.16 U	0.19 U	0.18 U	0.15 U	0.0062 U	NA	NA	NA	NA	NA	NA	NA
SB-3	3/21/2014	NA	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00067 U	0.034	0.037	0.00046 U	0.0050 U	0.00072 I	0.0013 U
SB-4	3/21/2014	NA	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00036 U	0.00023 U	0.00042 U	0.00025 U	0.00027 U	0.00024 U	0.00069 U
SB-5	3/21/2014	NA	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0011 I	0.00022 U	0.0025 I	**0.010**	0.00048 I	0.00023 U	0.00092 I
SB-6	3/21/2014	NA	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00045 I	0.00021 U	0.00039 U	**0.0040 I**	0.00024 U	0.00022 U	0.00063 U
SB-7	3/21/2014	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00032 U	0.00021 U	0.00038 U	0.00022 U	0.00024 U	0.00022 U	0.00062 U
SB-8	8/11/2020	NA	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00051 U	0.015 U		0.00061 U	0.00060 U	0.00053 U	0.00090 U
SB-9	8/11/2020	NA	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00040 U	0.012 U		0.00048 U	0.00047 U	0.00041 U	0.00071 U
SB-10	8/11/2020	19.5	1.9 I	0.47	19.7	15.1	0.012 U	0.024 U	0.020 U	0.017 U	0.017 U	0.018 U	0.022 U	0.016 U	0.022 U	0.016 U	0.022 U	0.022 U	NA	0.00085 U	0.025 U		0.0010 U	0.0010 U	0.00088 U	0.0015 U
SB-11	8/11/2020	16.3	3.8	0.36	27.9	20.2	0.029 U	0.033 U	0.027 U	0.023 U	0.023 U	0.025 U	0.030 U	0.022 U	0.031 U	0.021 U	0.031 U	0.029 U	NA	0.00089 U	0.026 U		0.0011 U	0.0011 U	0.00092 U	0.0016 U
SB-12	8/11/2020	NA	2.9 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00042 U	0.013 U		0.00051 U	0.00050 U	0.00044 U	0.00075 U
SB-13	8/11/2020	NA	2.3 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00083 U	0.025 U		0.0010 I	0.00099 U	0.00087 U	0.0015 U
SB-14	8/11/2020	NA	1.8 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0019 U	0.057 U		0.0023 U	0.0023 U	0.0020 U	0.0034 U
SB-15	8/11/2020	NA	2.7 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00098 U	0.029 U		0.0024 I	0.0012 U	0.0010 U	0.0017 U
Residential SCTL		460	2.1	82	210	400	1800	21000	#	0.1	2500	#	#	#	3200	#	2200	2400	130	0.06	2.8*		0.06	450	0.2	0.2
Commercial SCTL		3700	12	1700	470	1400	20000	300000	#	0.7	52000	#	#	#	59000	#	36000	45000	700	0.3	14*		0.3	7600	1	0.5
Leachability		340	***	7.5	38	***	27	2500	0.8	8	32000	24	77	0.7	1200	6.6	250	880	0.2	0.2	9.6*		0.002	3.8	23	0.6
M-D Background		NS	7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

All compounds reported in mg/kg unless otherwise noted.

Soil Cleanup Target Levels (SCTLs) and Leachability standards as provided in Chapter 62-777, F.A.C.

I - Compound was detected between the laboratory method detection limit and the laboratory practical quantitation limit.

M-D Background concentrations for the 0-6" interval as provided in the DERM memorandum dated April 3, 2014 and titled "Miami-Dade County Anthropogenic Background Study".

NA - Not Analyzed

NS - No Background Standard

TRPH - Total Recoverable Petroleum HydrocarboNA

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

* - SCTL and leachability standards provided for total chlordane.

*** - Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event oily wastes are present.

- Site concentratioNA for carcinogenic polycyclic aromatic hydrocarboNA must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.'

SB-4 was collected as part of a previous Phase II and not from the current Site.

Table 2 - Summary of Groundwater Results
Agricultural Property
15055 S.W. 216th Street
Miami, Florida

Sample ID	Date	Arsenic	Cadmium	Chromium	Lead	Chlordane	Dieldrin	Heptachlor Epoxide	PAH	VOA
MW-1	3/21/2014	5.0 U	0.50 U	2.5 U	5.0 U	NA	NA	NA	U	U
	8/11/2020	7.1 U	0.33 U	1.7 U	4.6 U	0.24 U	0.0019 U	0.015 U	U	U
MW-2	8/13/2018	NA	NA	NA	NA	0.17 U	0.0019 U	0.0050 U	NA	NA
	8/11/2020	7.1 U	NA	NA	NA	0.23 U	0.0019 U	0.015 U	NA	NA
MW-3	8/11/2020	7.1 U	NA	NA	NA	0.24 U	0.0019 U	0.015 U	NA	NA
MW-4	8/11/2020	7.1 U	NA	NA	NA	0.24 U	0.0019 U	0.015 U	NA	NA
MW-5	8/11/2020	7.1 U	0.33 U	1.7 U	4.6 U	0.31 I	0.019 I	0.020	U	U
GCTL		10	5	100	15	2	0.002	0.2	*	*
NADC		100	50	1000	150	200	0.2	20	*	*

Notes:

All compounds reported in ug/L unless otherwise noted.

Groundwater Cleanup Target Levels (GCTLs) and Natural Attenuation Default Concentrations as provided in Chapter 62-777, F.A.C.

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

NA - Not Analyzed

U - Compound was analyzed for but not detected.

* - Standards provided for individual compounds.

ATTACHMENT A

LABORATORY ANALYTICAL REPORT &
CHAIN OF CUSTODY RECORD

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

August 21, 2020

Brad Compton
CRB Geological & Environmental Services
8744 S.W. 133rd Street
Miami, FL 33176

RE: Project: FIU 236-08
Pace Project No.: 35570003

Dear Brad Compton:

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

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,

Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: Emilia Echeveste, CRB Geological & Environmental Services
Barbara Livieri, CRB Geological & Environmental Services

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Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

CERTIFICATIONS

Project: FIU 236-08
Pace Project No.: 35570003

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
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

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Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

SAMPLE SUMMARY

Project: FIU 236-08
Pace Project No.: 35570003

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35570003001	**MW-3**	Water	08/11/20 13:22	08/12/20 16:25
35570003002	**MW-4**	Water	08/11/20 14:21	08/12/20 16:25
35570003003	**MW-5**	Water	08/11/20 15:05	08/12/20 16:25
35570003004	**MW-2**	Water	08/11/20 15:54	08/12/20 16:25
35570003005	**MW-1**	Water	08/11/20 16:37	08/12/20 16:25
35570003006	**Trip Blank**	Water	08/11/20 00:01	08/12/20 16:25

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Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

SAMPLE ANALYTE COUNT

Project: FIU 236-08
Pace Project No.: 35570003

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35570003001	**MW-3**	EPA 8081	CB1	22	PASI-O
		EPA 6010	LEC	1	PASI-O
35570003002	**MW-4**	EPA 8081	CB1	22	PASI-O
		EPA 6010	LEC	1	PASI-O
35570003003	**MW-5**	EPA 8081	CB1	22	PASI-O
		FL-PRO	BMC	3	PASI-O
		EPA 6010	LEC	4	PASI-O
		EPA 8270 by SIM	RJR	20	PASI-O
		EPA 8260	SK1	14	PASI-O
35570003004	**MW-2**	EPA 8081	CB1	22	PASI-O
		EPA 6010	LEC	1	PASI-O
35570003005	**MW-1**	EPA 8081	CB1	22	PASI-O
		FL-PRO	BMC	3	PASI-O
		EPA 6010	LEC	4	PASI-O
		EPA 8270 by SIM	MMG	20	PASI-O
		EPA 8260	SK1	14	PASI-O
35570003006	**Trip Blank**	EPA 8260	SK1	14	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

SUMMARY OF DETECTION

Project: FIU 236-08
Pace Project No.: 35570003

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35570003003	**MW-5**					
EPA 8081	Chlordane (Technical)	0.31 I	ug/L	0.48	08/21/20 10:27	
EPA 8081	Dieldrin	0.019 I	ug/L	0.029	08/21/20 10:27	
EPA 8081	Heptachlor epoxide	0.020	ug/L	0.019	08/21/20 10:27	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570003

Sample: MW-3 **Lab ID: 35570003001** Collected: 08/11/20 13:22 Received: 08/12/20 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0038 U**	ug/L	0.077	0.0038	1	08/13/20 09:38	08/21/20 09:53	309-00-2	
alpha-BHC	**0.0020 U**	ug/L	0.0096	0.0020	1	08/13/20 09:38	08/21/20 09:53	319-84-6	
beta-BHC	**0.019 U**	ug/L	0.029	0.019	1	08/13/20 09:38	08/21/20 09:53	319-85-7	
delta-BHC	**0.0046 U**	ug/L	0.0096	0.0046	1	08/13/20 09:38	08/21/20 09:53	319-86-8	
gamma-BHC (Lindane)	**0.0021 U**	ug/L	0.0096	0.0021	1	08/13/20 09:38	08/21/20 09:53	58-89-9	
Chlordane (Technical)	**0.24 U**	ug/L	0.48	0.24	1	08/13/20 09:38	08/21/20 09:53	57-74-9	
4,4'-DDD	**0.0026 U**	ug/L	0.0096	0.0026	1	08/13/20 09:38	08/21/20 09:53	72-54-8	
4,4'-DDE	**0.0048 U**	ug/L	0.0096	0.0048	1	08/13/20 09:38	08/21/20 09:53	72-55-9	
4,4'-DDT	**0.0049 U**	ug/L	0.0096	0.0049	1	08/13/20 09:38	08/21/20 09:53	50-29-3	
Dieldrin	**0.0019 U**	ug/L	0.029	0.0019	1	08/13/20 09:38	08/21/20 09:53	60-57-1	
Endosulfan I	**0.0049 U**	ug/L	0.0096	0.0049	1	08/13/20 09:38	08/21/20 09:53	959-98-8	
Endosulfan II	**0.0038 U**	ug/L	0.0096	0.0038	1	08/13/20 09:38	08/21/20 09:53	33213-65-9	
Endosulfan sulfate	**0.0059 U**	ug/L	0.096	0.0059	1	08/13/20 09:38	08/21/20 09:53	1031-07-8	
Endrin	**0.0041 U**	ug/L	0.0096	0.0041	1	08/13/20 09:38	08/21/20 09:53	72-20-8	
Endrin aldehyde	**0.0035 U**	ug/L	0.096	0.0035	1	08/13/20 09:38	08/21/20 09:53	7421-93-4	
Endrin ketone	**0.0048 U**	ug/L	0.0096	0.0048	1	08/13/20 09:38	08/21/20 09:53	53494-70-5	
Heptachlor	**0.0059 U**	ug/L	0.0096	0.0059	1	08/13/20 09:38	08/21/20 09:53	76-44-8	
Heptachlor epoxide	**0.015 U**	ug/L	0.019	0.015	1	08/13/20 09:38	08/21/20 09:53	1024-57-3	
Methoxychlor	**0.0040 U**	ug/L	0.0096	0.0040	1	08/13/20 09:38	08/21/20 09:53	72-43-5	
Toxaphene	**0.24 U**	ug/L	0.48	0.24	1	08/13/20 09:38	08/21/20 09:53	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	27-124		1	08/13/20 09:38	08/21/20 09:53	877-09-8	
Decachlorobiphenyl (S)	67	%	10-132		1	08/13/20 09:38	08/21/20 09:53	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	08/13/20 11:44	08/14/20 05:31	7440-38-2	

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3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570003

Sample: MW-4 **Lab ID: 35570003002** Collected: 08/11/20 14:21 Received: 08/12/20 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0038 U**	ug/L	0.076	0.0038	1	08/13/20 09:38	08/21/20 10:10	309-00-2	
alpha-BHC	**0.0020 U**	ug/L	0.0096	0.0020	1	08/13/20 09:38	08/21/20 10:10	319-84-6	
beta-BHC	**0.019 U**	ug/L	0.029	0.019	1	08/13/20 09:38	08/21/20 10:10	319-85-7	
delta-BHC	**0.0046 U**	ug/L	0.0096	0.0046	1	08/13/20 09:38	08/21/20 10:10	319-86-8	
gamma-BHC (Lindane)	**0.0021 U**	ug/L	0.0096	0.0021	1	08/13/20 09:38	08/21/20 10:10	58-89-9	
Chlordane (Technical)	**0.24 U**	ug/L	0.48	0.24	1	08/13/20 09:38	08/21/20 10:10	57-74-9	
4,4'-DDD	**0.0026 U**	ug/L	0.0096	0.0026	1	08/13/20 09:38	08/21/20 10:10	72-54-8	
4,4'-DDE	**0.0048 U**	ug/L	0.0096	0.0048	1	08/13/20 09:38	08/21/20 10:10	72-55-9	
4,4'-DDT	**0.0049 U**	ug/L	0.0096	0.0049	1	08/13/20 09:38	08/21/20 10:10	50-29-3	
Dieldrin	**0.0019 U**	ug/L	0.029	0.0019	1	08/13/20 09:38	08/21/20 10:10	60-57-1	
Endosulfan I	**0.0049 U**	ug/L	0.0096	0.0049	1	08/13/20 09:38	08/21/20 10:10	959-98-8	
Endosulfan II	**0.0038 U**	ug/L	0.0096	0.0038	1	08/13/20 09:38	08/21/20 10:10	33213-65-9	
Endosulfan sulfate	**0.0059 U**	ug/L	0.096	0.0059	1	08/13/20 09:38	08/21/20 10:10	1031-07-8	
Endrin	**0.0041 U**	ug/L	0.0096	0.0041	1	08/13/20 09:38	08/21/20 10:10	72-20-8	
Endrin aldehyde	**0.0034 U**	ug/L	0.096	0.0034	1	08/13/20 09:38	08/21/20 10:10	7421-93-4	
Endrin ketone	**0.0048 U**	ug/L	0.0096	0.0048	1	08/13/20 09:38	08/21/20 10:10	53494-70-5	
Heptachlor	**0.0059 U**	ug/L	0.0096	0.0059	1	08/13/20 09:38	08/21/20 10:10	76-44-8	
Heptachlor epoxide	**0.015 U**	ug/L	0.019	0.015	1	08/13/20 09:38	08/21/20 10:10	1024-57-3	
Methoxychlor	**0.0040 U**	ug/L	0.0096	0.0040	1	08/13/20 09:38	08/21/20 10:10	72-43-5	
Toxaphene	**0.24 U**	ug/L	0.48	0.24	1	08/13/20 09:38	08/21/20 10:10	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	27-124		1	08/13/20 09:38	08/21/20 10:10	877-09-8	
Decachlorobiphenyl (S)	73	%	10-132		1	08/13/20 09:38	08/21/20 10:10	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	08/13/20 11:44	08/14/20 05:36	7440-38-2	

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570003

Sample: MW-5 **Lab ID: 35570003003** Collected: 08/11/20 15:05 Received: 08/12/20 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0038 U**	ug/L	0.076	0.0038	1	08/13/20 09:38	08/21/20 10:27	309-00-2	
alpha-BHC	**0.0020 U**	ug/L	0.0095	0.0020	1	08/13/20 09:38	08/21/20 10:27	319-84-6	
beta-BHC	**0.019 U**	ug/L	0.029	0.019	1	08/13/20 09:38	08/21/20 10:27	319-85-7	
delta-BHC	**0.0046 U**	ug/L	0.0095	0.0046	1	08/13/20 09:38	08/21/20 10:27	319-86-8	
gamma-BHC (Lindane)	**0.0021 U**	ug/L	0.0095	0.0021	1	08/13/20 09:38	08/21/20 10:27	58-89-9	
Chlordane (Technical)	**0.31 I**	ug/L	0.48	0.23	1	08/13/20 09:38	08/21/20 10:27	57-74-9	
4,4'-DDD	**0.0026 U**	ug/L	0.0095	0.0026	1	08/13/20 09:38	08/21/20 10:27	72-54-8	
4,4'-DDE	**0.0048 U**	ug/L	0.0095	0.0048	1	08/13/20 09:38	08/21/20 10:27	72-55-9	
4,4'-DDT	**0.0049 U**	ug/L	0.0095	0.0049	1	08/13/20 09:38	08/21/20 10:27	50-29-3	
Dieldrin	**0.019 I**	ug/L	0.029	0.0019	1	08/13/20 09:38	08/21/20 10:27	60-57-1	
Endosulfan I	**0.0049 U**	ug/L	0.0095	0.0049	1	08/13/20 09:38	08/21/20 10:27	959-98-8	
Endosulfan II	**0.0038 U**	ug/L	0.0095	0.0038	1	08/13/20 09:38	08/21/20 10:27	33213-65-9	
Endosulfan sulfate	**0.0059 U**	ug/L	0.095	0.0059	1	08/13/20 09:38	08/21/20 10:27	1031-07-8	
Endrin	**0.0041 U**	ug/L	0.0095	0.0041	1	08/13/20 09:38	08/21/20 10:27	72-20-8	
Endrin aldehyde	**0.0034 U**	ug/L	0.095	0.0034	1	08/13/20 09:38	08/21/20 10:27	7421-93-4	
Endrin ketone	**0.0048 U**	ug/L	0.0095	0.0048	1	08/13/20 09:38	08/21/20 10:27	53494-70-5	
Heptachlor	**0.0059 U**	ug/L	0.0095	0.0059	1	08/13/20 09:38	08/21/20 10:27	76-44-8	
Heptachlor epoxide	**0.020**	ug/L	0.019	0.015	1	08/13/20 09:38	08/21/20 10:27	1024-57-3	
Methoxychlor	**0.0040 U**	ug/L	0.0095	0.0040	1	08/13/20 09:38	08/21/20 10:27	72-43-5	
Toxaphene	**0.24 U**	ug/L	0.48	0.24	1	08/13/20 09:38	08/21/20 10:27	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	27-124		1	08/13/20 09:38	08/21/20 10:27	877-09-8	
Decachlorobiphenyl (S)	83	%	10-132		1	08/13/20 09:38	08/21/20 10:27	2051-24-3	
FL-PRO Water, Low Volume	Analytical Method: FL-PRO Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**0.75 U**	mg/L	0.93	0.75	1	08/13/20 13:58	08/14/20 12:34		
Surrogates									
o-Terphenyl (S)	82	%	66-139		1	08/13/20 13:58	08/14/20 12:34	84-15-1	
N-Pentatriacontane (S)	89	%	42-159		1	08/13/20 13:58	08/14/20 12:34	630-07-09	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	08/13/20 11:44	08/14/20 05:41	7440-38-2	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	08/13/20 11:44	08/14/20 05:41	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	08/13/20 11:44	08/14/20 05:41	7440-47-3	
Lead	**4.6 U**	ug/L	10.0	4.6	1	08/13/20 11:44	08/14/20 05:41	7439-92-1	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.040 U**	ug/L	0.50	0.040	1	08/13/20 12:50	08/14/20 08:08	83-32-9	
Acenaphthylene	**0.030 U**	ug/L	0.50	0.030	1	08/13/20 12:50	08/14/20 08:08	208-96-8	
Anthracene	**0.043 U**	ug/L	0.50	0.043	1	08/13/20 12:50	08/14/20 08:08	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	08/13/20 12:50	08/14/20 08:08	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	08/13/20 12:50	08/14/20 08:08	50-32-8	

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570003

Sample: MW-5 **Lab ID: 35570003003** Collected: 08/11/20 15:05 Received: 08/12/20 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Ormond Beach								
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	08/13/20 12:50	08/14/20 08:08	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	08/13/20 12:50	08/14/20 08:08	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	08/13/20 12:50	08/14/20 08:08	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	08/13/20 12:50	08/14/20 08:08	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	08/13/20 12:50	08/14/20 08:08	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	08/13/20 12:50	08/14/20 08:08	206-44-0	
Fluorene	**0.088 U**	ug/L	0.50	0.088	1	08/13/20 12:50	08/14/20 08:08	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	08/13/20 12:50	08/14/20 08:08	193-39-5	
1-Methylnaphthalene	**0.19 U**	ug/L	2.0	0.19	1	08/13/20 12:50	08/14/20 08:08	90-12-0	
2-Methylnaphthalene	**0.68 U**	ug/L	2.0	0.68	1	08/13/20 12:50	08/14/20 08:08	91-57-6	
Naphthalene	**0.29 U**	ug/L	2.0	0.29	1	08/13/20 12:50	08/14/20 08:08	91-20-3	
Phenanthrene	**0.16 U**	ug/L	0.50	0.16	1	08/13/20 12:50	08/14/20 08:08	85-01-8	
Pyrene	**0.032 U**	ug/L	0.50	0.032	1	08/13/20 12:50	08/14/20 08:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	38-92		1	08/13/20 12:50	08/14/20 08:08	321-60-8	
p-Terphenyl-d14 (S)	63	%	54-112		1	08/13/20 12:50	08/14/20 08:08	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Ormond Beach								
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		08/14/20 07:54	95-50-1	
1,3-Dichlorobenzene	**0.33 U**	ug/L	1.0	0.33	1		08/14/20 07:54	541-73-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		08/14/20 07:54	106-46-7	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		08/14/20 07:54	71-43-2	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		08/14/20 07:54	108-90-7	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		08/14/20 07:54	100-41-4	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		08/14/20 07:54	1634-04-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		08/14/20 07:54	108-88-3	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		08/14/20 07:54	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		08/14/20 07:54	179601-23-1	
o-Xylene	**0.27 U**	ug/L	1.0	0.27	1		08/14/20 07:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/14/20 07:54	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		08/14/20 07:54	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		08/14/20 07:54	2199-69-1	

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570003

Sample: MW-2 **Lab ID: 35570003004** Collected: 08/11/20 15:54 Received: 08/12/20 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0038 U**	ug/L	0.076	0.0038	1	08/13/20 09:38	08/21/20 10:44	309-00-2	
alpha-BHC	**0.0020 U**	ug/L	0.0095	0.0020	1	08/13/20 09:38	08/21/20 10:44	319-84-6	
beta-BHC	**0.019 U**	ug/L	0.029	0.019	1	08/13/20 09:38	08/21/20 10:44	319-85-7	
delta-BHC	**0.0046 U**	ug/L	0.0095	0.0046	1	08/13/20 09:38	08/21/20 10:44	319-86-8	
gamma-BHC (Lindane)	**0.0021 U**	ug/L	0.0095	0.0021	1	08/13/20 09:38	08/21/20 10:44	58-89-9	
Chlordane (Technical)	**0.23 U**	ug/L	0.48	0.23	1	08/13/20 09:38	08/21/20 10:44	57-74-9	
4,4'-DDD	**0.0026 U**	ug/L	0.0095	0.0026	1	08/13/20 09:38	08/21/20 10:44	72-54-8	
4,4'-DDE	**0.0048 U**	ug/L	0.0095	0.0048	1	08/13/20 09:38	08/21/20 10:44	72-55-9	
4,4'-DDT	**0.0049 U**	ug/L	0.0095	0.0049	1	08/13/20 09:38	08/21/20 10:44	50-29-3	
Dieldrin	**0.0019 U**	ug/L	0.029	0.0019	1	08/13/20 09:38	08/21/20 10:44	60-57-1	
Endosulfan I	**0.0049 U**	ug/L	0.0095	0.0049	1	08/13/20 09:38	08/21/20 10:44	959-98-8	
Endosulfan II	**0.0038 U**	ug/L	0.0095	0.0038	1	08/13/20 09:38	08/21/20 10:44	33213-65-9	
Endosulfan sulfate	**0.0059 U**	ug/L	0.095	0.0059	1	08/13/20 09:38	08/21/20 10:44	1031-07-8	
Endrin	**0.0041 U**	ug/L	0.0095	0.0041	1	08/13/20 09:38	08/21/20 10:44	72-20-8	
Endrin aldehyde	**0.0034 U**	ug/L	0.095	0.0034	1	08/13/20 09:38	08/21/20 10:44	7421-93-4	
Endrin ketone	**0.0048 U**	ug/L	0.0095	0.0048	1	08/13/20 09:38	08/21/20 10:44	53494-70-5	
Heptachlor	**0.0059 U**	ug/L	0.0095	0.0059	1	08/13/20 09:38	08/21/20 10:44	76-44-8	
Heptachlor epoxide	**0.015 U**	ug/L	0.019	0.015	1	08/13/20 09:38	08/21/20 10:44	1024-57-3	
Methoxychlor	**0.0040 U**	ug/L	0.0095	0.0040	1	08/13/20 09:38	08/21/20 10:44	72-43-5	
Toxaphene	**0.24 U**	ug/L	0.48	0.24	1	08/13/20 09:38	08/21/20 10:44	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	27-124		1	08/13/20 09:38	08/21/20 10:44	877-09-8	
Decachlorobiphenyl (S)	89	%	10-132		1	08/13/20 09:38	08/21/20 10:44	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	08/13/20 11:44	08/14/20 05:46	7440-38-2	

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570003

Sample: MW-1 **Lab ID: 35570003005** Collected: 08/11/20 16:37 Received: 08/12/20 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0038 U**	ug/L	0.076	0.0038	1	08/13/20 09:38	08/21/20 11:01	309-00-2	
alpha-BHC	**0.0020 U**	ug/L	0.0096	0.0020	1	08/13/20 09:38	08/21/20 11:01	319-84-6	
beta-BHC	**0.019 U**	ug/L	0.029	0.019	1	08/13/20 09:38	08/21/20 11:01	319-85-7	
delta-BHC	**0.0046 U**	ug/L	0.0096	0.0046	1	08/13/20 09:38	08/21/20 11:01	319-86-8	
gamma-BHC (Lindane)	**0.0021 U**	ug/L	0.0096	0.0021	1	08/13/20 09:38	08/21/20 11:01	58-89-9	
Chlordane (Technical)	**0.24 U**	ug/L	0.48	0.24	1	08/13/20 09:38	08/21/20 11:01	57-74-9	
4,4'-DDD	**0.0026 U**	ug/L	0.0096	0.0026	1	08/13/20 09:38	08/21/20 11:01	72-54-8	
4,4'-DDE	**0.0048 U**	ug/L	0.0096	0.0048	1	08/13/20 09:38	08/21/20 11:01	72-55-9	
4,4'-DDT	**0.0049 U**	ug/L	0.0096	0.0049	1	08/13/20 09:38	08/21/20 11:01	50-29-3	
Dieldrin	**0.0019 U**	ug/L	0.029	0.0019	1	08/13/20 09:38	08/21/20 11:01	60-57-1	
Endosulfan I	**0.0049 U**	ug/L	0.0096	0.0049	1	08/13/20 09:38	08/21/20 11:01	959-98-8	
Endosulfan II	**0.0038 U**	ug/L	0.0096	0.0038	1	08/13/20 09:38	08/21/20 11:01	33213-65-9	
Endosulfan sulfate	**0.0059 U**	ug/L	0.096	0.0059	1	08/13/20 09:38	08/21/20 11:01	1031-07-8	
Endrin	**0.0041 U**	ug/L	0.0096	0.0041	1	08/13/20 09:38	08/21/20 11:01	72-20-8	
Endrin aldehyde	**0.0034 U**	ug/L	0.096	0.0034	1	08/13/20 09:38	08/21/20 11:01	7421-93-4	
Endrin ketone	**0.0048 U**	ug/L	0.0096	0.0048	1	08/13/20 09:38	08/21/20 11:01	53494-70-5	
Heptachlor	**0.0059 U**	ug/L	0.0096	0.0059	1	08/13/20 09:38	08/21/20 11:01	76-44-8	
Heptachlor epoxide	**0.015 U**	ug/L	0.019	0.015	1	08/13/20 09:38	08/21/20 11:01	1024-57-3	
Methoxychlor	**0.0040 U**	ug/L	0.0096	0.0040	1	08/13/20 09:38	08/21/20 11:01	72-43-5	
Toxaphene	**0.24 U**	ug/L	0.48	0.24	1	08/13/20 09:38	08/21/20 11:01	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	67	%	27-124		1	08/13/20 09:38	08/21/20 11:01	877-09-8	
Decachlorobiphenyl (S)	88	%	10-132		1	08/13/20 09:38	08/21/20 11:01	2051-24-3	
FL-PRO Water, Low Volume	Analytical Method: FL-PRO Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**0.75 U**	mg/L	0.94	0.75	1	08/13/20 13:58	08/14/20 12:48		
Surrogates									
o-Terphenyl (S)	87	%	66-139		1	08/13/20 13:58	08/14/20 12:48	84-15-1	
N-Pentatriacontane (S)	91	%	42-159		1	08/13/20 13:58	08/14/20 12:48	630-07-09	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	08/13/20 11:44	08/14/20 05:50	7440-38-2	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	08/13/20 11:44	08/14/20 05:50	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	08/13/20 11:44	08/14/20 05:50	7440-47-3	
Lead	**4.6 U**	ug/L	10.0	4.6	1	08/13/20 11:44	08/14/20 05:50	7439-92-1	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.040 U**	ug/L	0.50	0.040	1	08/13/20 12:50	08/13/20 19:03	83-32-9	
Acenaphthylene	**0.030 U**	ug/L	0.50	0.030	1	08/13/20 12:50	08/13/20 19:03	208-96-8	
Anthracene	**0.043 U**	ug/L	0.50	0.043	1	08/13/20 12:50	08/13/20 19:03	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	08/13/20 12:50	08/13/20 19:03	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	08/13/20 12:50	08/13/20 19:03	50-32-8	

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570003

Sample: MW-1 **Lab ID: 35570003005** Collected: 08/11/20 16:37 Received: 08/12/20 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	08/13/20 12:50	08/13/20 19:03	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	08/13/20 12:50	08/13/20 19:03	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	08/13/20 12:50	08/13/20 19:03	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	08/13/20 12:50	08/13/20 19:03	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	08/13/20 12:50	08/13/20 19:03	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	08/13/20 12:50	08/13/20 19:03	206-44-0	
Fluorene	**0.088 U**	ug/L	0.50	0.088	1	08/13/20 12:50	08/13/20 19:03	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	08/13/20 12:50	08/13/20 19:03	193-39-5	
1-Methylnaphthalene	**0.19 U**	ug/L	2.0	0.19	1	08/13/20 12:50	08/13/20 19:03	90-12-0	
2-Methylnaphthalene	**0.68 U**	ug/L	2.0	0.68	1	08/13/20 12:50	08/13/20 19:03	91-57-6	
Naphthalene	**0.29 U**	ug/L	2.0	0.29	1	08/13/20 12:50	08/13/20 19:03	91-20-3	
Phenanthrene	**0.16 U**	ug/L	0.50	0.16	1	08/13/20 12:50	08/13/20 19:03	85-01-8	
Pyrene	**0.032 U**	ug/L	0.50	0.032	1	08/13/20 12:50	08/13/20 19:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	38-92		1	08/13/20 12:50	08/13/20 19:03	321-60-8	
p-Terphenyl-d14 (S)	57	%	54-112		1	08/13/20 12:50	08/13/20 19:03	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		08/14/20 08:22	95-50-1	
1,3-Dichlorobenzene	**0.33 U**	ug/L	1.0	0.33	1		08/14/20 08:22	541-73-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		08/14/20 08:22	106-46-7	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		08/14/20 08:22	71-43-2	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		08/14/20 08:22	108-90-7	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		08/14/20 08:22	100-41-4	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		08/14/20 08:22	1634-04-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		08/14/20 08:22	108-88-3	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		08/14/20 08:22	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		08/14/20 08:22	179601-23-1	
o-Xylene	**0.27 U**	ug/L	1.0	0.27	1		08/14/20 08:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/14/20 08:22	460-00-4	
Toluene-d8 (S)	101	%	70-130		1		08/14/20 08:22	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		08/14/20 08:22	2199-69-1	

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570003

Sample: Trip Blank **Lab ID: 35570003006** Collected: 08/11/20 00:01 Received: 08/12/20 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		08/14/20 08:49	95-50-1	
1,3-Dichlorobenzene	**0.33 U**	ug/L	1.0	0.33	1		08/14/20 08:49	541-73-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		08/14/20 08:49	106-46-7	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		08/14/20 08:49	71-43-2	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		08/14/20 08:49	108-90-7	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		08/14/20 08:49	100-41-4	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		08/14/20 08:49	1634-04-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		08/14/20 08:49	108-88-3	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		08/14/20 08:49	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		08/14/20 08:49	179601-23-1	
o-Xylene	**0.27 U**	ug/L	1.0	0.27	1		08/14/20 08:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/14/20 08:49	460-00-4	
Toluene-d8 (S)	103	%	70-130		1		08/14/20 08:49	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		08/14/20 08:49	2199-69-1	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570003

QC Batch: 656721
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570003001, 35570003002, 35570003003, 35570003004, 35570003005

METHOD BLANK: 3570960 Matrix: Water
Associated Lab Samples: 35570003001, 35570003002, 35570003003, 35570003004, 35570003005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1 U	10.0	7.1	08/14/20 05:22	
Cadmium	ug/L	0.33 U	1.0	0.33	08/14/20 05:22	
Chromium	ug/L	1.7 U	5.0	1.7	08/14/20 05:22	
Lead	ug/L	4.6 U	10.0	4.6	08/14/20 05:22	

LABORATORY CONTROL SAMPLE: 3570961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	244	98	80-120	
Cadmium	ug/L	25	25.2	101	80-120	
Chromium	ug/L	250	251	101	80-120	
Lead	ug/L	250	251	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3570962 3570963

Parameter	Units	35569467003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	261	263	104	105	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	25.4	25.8	102	103	75-125	1	20	
Chromium	ug/L	2.8 I	250	250	272	269	107	106	75-125	1	20	
Lead	ug/L	4.6 U	250	250	265	265	106	106	75-125	0	20	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570003

QC Batch: 656925 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570003003, 35570003005, 35570003006

METHOD BLANK: 3571876 Matrix: Water
Associated Lab Samples: 35570003003, 35570003005, 35570003006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichlorobenzene	ug/L	0.29 U	1.0	0.29	08/14/20 01:05	
1,3-Dichlorobenzene	ug/L	0.33 U	1.0	0.33	08/14/20 01:05	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	08/14/20 01:05	
Benzene	ug/L	0.30 U	1.0	0.30	08/14/20 01:05	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	08/14/20 01:05	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	08/14/20 01:05	
m&p-Xylene	ug/L	2.1 U	4.0	2.1	08/14/20 01:05	
Methyl-tert-butyl ether	ug/L	0.51 U	2.0	0.51	08/14/20 01:05	
o-Xylene	ug/L	0.27 U	1.0	0.27	08/14/20 01:05	
Toluene	ug/L	0.33 U	1.0	0.33	08/14/20 01:05	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	08/14/20 01:05	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130		08/14/20 01:05	
4-Bromofluorobenzene (S)	%	97	70-130		08/14/20 01:05	
Toluene-d8 (S)	%	99	70-130		08/14/20 01:05	

LABORATORY CONTROL SAMPLE: 3571877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,3-Dichlorobenzene	ug/L	20	20.9	104	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
Benzene	ug/L	20	20.9	105	70-130	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Ethylbenzene	ug/L	20	19.6	98	70-130	
m&p-Xylene	ug/L	40	39.2	98	70-130	
Methyl-tert-butyl ether	ug/L	20	18.7	94	64-124	
o-Xylene	ug/L	20	17.9	89	70-130	
Toluene	ug/L	20	18.7	94	70-130	
Xylene (Total)	ug/L	60	57.1	95	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570003

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3572094 3572095

Parameter	Units	20166175001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/L	ND	20	20	18.9	19.7	95	99	70-130	4	40	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.6	21.7	103	109	70-130	5	40	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.9	19.8	95	99	70-130	4	40	
Benzene	ug/L	ND	20	20	21.7	22.5	108	113	70-130	4	40	
Chlorobenzene	ug/L	ND	20	20	19.2	19.6	96	98	70-130	2	40	
Ethylbenzene	ug/L	ND	20	20	20.2	20.9	101	104	70-130	3	40	
m&p-Xylene	ug/L	ND	40	40	40.2	41.4	101	104	70-130	3	40	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.7	18.2	88	91	64-124	3	40	
o-Xylene	ug/L	ND	20	20	17.6	18.6	88	93	70-130	6	40	
Toluene	ug/L	ND	20	20	18.9	19.3	94	97	70-130	2	40	
Xylene (Total)	ug/L	ND	60	60	57.8	60.0	96	100	70-130	4	40	
1,2-Dichlorobenzene-d4 (S)	%						99	100	70-130			
4-Bromofluorobenzene (S)	%						98	98	70-130		40	
Toluene-d8 (S)	%						100	99	70-130		40	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570003

QC Batch: 656636 | Analysis Method: EPA 8081
QC Batch Method: EPA 3510 | Analysis Description: 8081 GCS Pesticides
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570003001, 35570003002, 35570003003, 35570003004, 35570003005

METHOD BLANK: 3570678 Matrix: Water
Associated Lab Samples: 35570003001, 35570003002, 35570003003, 35570003004, 35570003005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/L	0.0027 U	0.010	0.0027	08/21/20 08:28	
4,4'-DDE	ug/L	0.0050 U	0.010	0.0050	08/21/20 08:28	
4,4'-DDT	ug/L	0.0051 U	0.010	0.0051	08/21/20 08:28	
Aldrin	ug/L	0.0040 U	0.080	0.0040	08/21/20 08:28	
alpha-BHC	ug/L	0.0021 U	0.010	0.0021	08/21/20 08:28	
beta-BHC	ug/L	0.020 U	0.030	0.020	08/21/20 08:28	
Chlordane (Technical)	ug/L	0.25 U	0.50	0.25	08/21/20 08:28	
delta-BHC	ug/L	0.0048 U	0.010	0.0048	08/21/20 08:28	
Dieldrin	ug/L	0.0020 U	0.030	0.0020	08/21/20 08:28	
Endosulfan I	ug/L	0.0051 U	0.010	0.0051	08/21/20 08:28	
Endosulfan II	ug/L	0.0040 U	0.010	0.0040	08/21/20 08:28	
Endosulfan sulfate	ug/L	0.0062 U	0.10	0.0062	08/21/20 08:28	
Endrin	ug/L	0.0043 U	0.010	0.0043	08/21/20 08:28	
Endrin aldehyde	ug/L	0.0036 U	0.10	0.0036	08/21/20 08:28	
Endrin ketone	ug/L	0.0050 U	0.010	0.0050	08/21/20 08:28	
gamma-BHC (Lindane)	ug/L	0.0022 U	0.010	0.0022	08/21/20 08:28	
Heptachlor	ug/L	0.0062 U	0.010	0.0062	08/21/20 08:28	
Heptachlor epoxide	ug/L	0.016 U	0.020	0.016	08/21/20 08:28	
Methoxychlor	ug/L	0.0042 U	0.010	0.0042	08/21/20 08:28	
Toxaphene	ug/L	0.25 U	0.50	0.25	08/21/20 08:28	
Decachlorobiphenyl (S)	%	49	10-132		08/21/20 08:28	
Tetrachloro-m-xylene (S)	%	80	27-124		08/21/20 08:28	

LABORATORY CONTROL SAMPLE & LCSD: 3570679 3570708

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4,4'-DDD	ug/L	0.5	0.59	0.59	117	117	67-133	0	40	
4,4'-DDE	ug/L	0.5	0.56	0.55	112	111	59-125	1	40	
4,4'-DDT	ug/L	0.5	0.53	0.55	107	110	54-132	3	40	
Aldrin	ug/L	0.5	0.49	0.48	98	96	25-116	3	40	
alpha-BHC	ug/L	0.5	0.55	0.55	111	110	53-126	0	40	
beta-BHC	ug/L	0.5	0.57	0.58	113	116	62-130	2	40	
delta-BHC	ug/L	0.5	0.58	0.59	117	118	35-122	1	40	
Dieldrin	ug/L	0.5	0.56	0.56	113	113	66-128	0	40	
Endosulfan I	ug/L	0.5	0.56	0.56	113	112	67-125	0	40	
Endosulfan II	ug/L	0.5	0.57	0.57	114	115	67-131	0	40	
Endosulfan sulfate	ug/L	0.5	0.59	0.61	118	121	62-127	3	40	
Endrin	ug/L	0.5	0.52	0.53	104	107	66-130	2	40	
Endrin aldehyde	ug/L	0.5	0.59	0.59	117	118	61-124	1	40	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570003

LABORATORY CONTROL SAMPLE & LCSD: 3570679 3570708

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Endrin ketone	ug/L	0.5	0.61	0.62	122	123	65-132	1	40	
gamma-BHC (Lindane)	ug/L	0.5	0.56	0.56	111	111	58-127	0	40	
Heptachlor	ug/L	0.5	0.51	0.50	103	101	35-123	2	40	
Heptachlor epoxide	ug/L	0.5	0.56	0.56	111	111	62-125	0	40	
Methoxychlor	ug/L	0.5	0.58	0.59	115	119	59-135	3	40	
Decachlorobiphenyl (S)	%				82	48	10-132			
Tetrachloro-m-xylene (S)	%				88	85	27-124			

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Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570003

QC Batch: 656619
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAHLV by SIM MSSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570003003, 35570003005

METHOD BLANK: 3570636 Matrix: Water
Associated Lab Samples: 35570003003, 35570003005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.19 U	2.0	0.19	08/13/20 21:40	
2-Methylnaphthalene	ug/L	0.68 U	2.0	0.68	08/13/20 21:40	
Acenaphthene	ug/L	0.040 U	0.50	0.040	08/13/20 21:40	
Acenaphthylene	ug/L	0.030 U	0.50	0.030	08/13/20 21:40	
Anthracene	ug/L	0.043 U	0.50	0.043	08/13/20 21:40	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	08/13/20 21:40	
Benzo(a)pyrene	ug/L	0.12 U	0.20	0.12	08/13/20 21:40	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	08/13/20 21:40	
Benzo(g,h,i)perylene	ug/L	0.15 U	0.50	0.15	08/13/20 21:40	
Benzo(k)fluoranthene	ug/L	0.16 U	0.50	0.16	08/13/20 21:40	
Chrysene	ug/L	0.026 U	0.50	0.026	08/13/20 21:40	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	08/13/20 21:40	
Fluoranthene	ug/L	0.018 U	0.50	0.018	08/13/20 21:40	
Fluorene	ug/L	0.088 U	0.50	0.088	08/13/20 21:40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	08/13/20 21:40	
Naphthalene	ug/L	0.29 U	2.0	0.29	08/13/20 21:40	
Phenanthrene	ug/L	0.16 U	0.50	0.16	08/13/20 21:40	
Pyrene	ug/L	0.032 U	0.50	0.032	08/13/20 21:40	
2-Fluorobiphenyl (S)	%	62	38-92		08/13/20 21:40	
p-Terphenyl-d14 (S)	%	59	54-112		08/13/20 21:40	

LABORATORY CONTROL SAMPLE: 3570637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	2.9	59	40-96	
2-Methylnaphthalene	ug/L	5	2.9	58	40-94	
Acenaphthene	ug/L	5	3.1	62	42-96	
Acenaphthylene	ug/L	5	2.9	59	39-90	
Anthracene	ug/L	5	3.0	60	46-109	
Benzo(a)anthracene	ug/L	5	3.2	64	50-116	
Benzo(a)pyrene	ug/L	5	3.2	64	48-117	
Benzo(b)fluoranthene	ug/L	5	3.2	64	51-124	
Benzo(g,h,i)perylene	ug/L	5	3.6	71	47-121	
Benzo(k)fluoranthene	ug/L	5	3.3	66	50-125	
Chrysene	ug/L	5	3.4	68	53-122	
Dibenz(a,h)anthracene	ug/L	5	3.5	70	45-123	
Fluoranthene	ug/L	5	3.4	68	52-119	
Fluorene	ug/L	5	3.0	61	44-100	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.6	72	46-121	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570003

LABORATORY CONTROL SAMPLE: 3570637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	5	2.9	58	40-91	
Phenanthrene	ug/L	5	3.1	62	47-111	
Pyrene	ug/L	5	3.4	68	51-120	
2-Fluorobiphenyl (S)	%			63	38-92	
p-Terphenyl-d14 (S)	%			61	54-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3570767 3570768

Parameter	Units	35569989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.19 U	5	5	3.0	3.1	61	61	40-96	1	40	
2-Methylnaphthalene	ug/L	0.68 U	5	5	3.0	3.0	60	61	40-94	1	40	
Acenaphthene	ug/L	0.040 U	5	5	3.2	3.2	63	64	42-96	2	40	
Acenaphthylene	ug/L	0.030 U	5	5	3.1	3.1	62	63	39-90	2	40	
Anthracene	ug/L	0.043 U	5	5	3.4	3.3	67	67	46-109	1	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	3.6	3.6	73	72	50-116	2	40	
Benzo(a)pyrene	ug/L	0.12 U	5	5	3.6	3.6	73	72	48-117	1	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	3.7	3.6	73	71	51-124	3	40	
Benzo(g,h,i)perylene	ug/L	0.15 U	5	5	4.0	4.0	81	80	47-121	1	40	
Benzo(k)fluoranthene	ug/L	0.16 U	5	5	3.7	3.7	75	74	50-125	1	40	
Chrysene	ug/L	0.026 U	5	5	3.7	3.7	75	73	53-122	2	40	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	4.0	3.9	79	78	45-123	2	40	
Fluoranthene	ug/L	0.018 U	5	5	3.7	3.7	74	74	52-119	1	40	
Fluorene	ug/L	0.088 U	5	5	3.2	3.2	64	64	44-100	1	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	4.1	4.0	82	80	46-121	2	40	
Naphthalene	ug/L	0.29 U	5	5	2.9	3.0	59	59	40-91	1	40	
Phenanthrene	ug/L	0.16 U	5	5	3.4	3.4	68	67	47-111	1	40	
Pyrene	ug/L	0.032 U	5	5	3.7	3.7	75	74	51-120	1	40	
2-Fluorobiphenyl (S)	%						64	63	38-92			
p-Terphenyl-d14 (S)	%						66	64	54-112			

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Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570003

QC Batch: 656638
QC Batch Method: EPA 3510
Analysis Method: FL-PRO
Analysis Description: FL-PRO Water Low Volume
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570003003, 35570003005

METHOD BLANK: 3570686 Matrix: Water
Associated Lab Samples: 35570003003, 35570003005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	1.0	0.80	08/14/20 08:18	
N-Pentatriacontane (S)	%	89	42-159		08/14/20 08:18	
o-Terphenyl (S)	%	82	66-139		08/14/20 08:18	

LABORATORY CONTROL SAMPLE: 3570687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	4.0	79	66-119	
N-Pentatriacontane (S)	%			88	42-159	
o-Terphenyl (S)	%			85	66-139	

MATRIX SPIKE SAMPLE: 3570691

Parameter	Units	35569871001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	0.73 U	4.6	3.7	77	65-123	
N-Pentatriacontane (S)	%				90	42-159	
o-Terphenyl (S)	%				84	66-139	

SAMPLE DUPLICATE: 3570692

Parameter	Units	35569871002 Result	Dup Result	RPD	Max RPD	Qualifiers
Petroleum Range Organics	mg/L	0.74 U	0.75 U		20	
N-Pentatriacontane (S)	%	81	84			
o-Terphenyl (S)	%	70	80			

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Pompano Beach, FL 33064
(954)582-4300

QUALIFIERS

Project: FIU 236-08
Pace Project No.: 35570003

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.

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Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FIU 236-08
Pace Project No.: 35570003

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35570003001	**MW-3**	EPA 3510	656636	EPA 8081	657018
35570003002	**MW-4**	EPA 3510	656636	EPA 8081	657018
35570003003	**MW-5**	EPA 3510	656636	EPA 8081	657018
35570003004	**MW-2**	EPA 3510	656636	EPA 8081	657018
35570003005	**MW-1**	EPA 3510	656636	EPA 8081	657018
35570003003	**MW-5**	EPA 3510	656638	FL-PRO	657027
35570003005	**MW-1**	EPA 3510	656638	FL-PRO	657027
35570003001	**MW-3**	EPA 3010	656721	EPA 6010	656909
35570003002	**MW-4**	EPA 3010	656721	EPA 6010	656909
35570003003	**MW-5**	EPA 3010	656721	EPA 6010	656909
35570003004	**MW-2**	EPA 3010	656721	EPA 6010	656909
35570003005	**MW-1**	EPA 3010	656721	EPA 6010	656909
35570003003	**MW-5**	EPA 3510	656619	EPA 8270 by SIM	656887
35570003005	**MW-1**	EPA 3510	656619	EPA 8270 by SIM	656887
35570003003	**MW-5**	EPA 8260	656925		
35570003005	**MW-1**	EPA 8260	656925		
35570003006	**Trip Blank**	EPA 8260	656925		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: CRB Geological	Billing Information:
Address: 8744 SW 133 St	
Report To: Brad Compton	Email To: BCompton@CRBhEO.net
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: FIU 236-08	State: FL / County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 305 447 9777 Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): David Babbitt	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	OCP	As	PAH	TRPH	VOA	Pb, Cd, Cr	Lab Profile/Line:
MW-3	GW				8/11/20	1322		2	X	X					
MW-4	"				"	1421		2	X	X					
MW-5	"				"	1505		8	X	X	X	X	X	X	
MW-2	"				"	1554		2	X	X					
MW-1	"				"	1637		8	X	X	X	X	X	X	

Analyses

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

WO# : 35570003

35570003

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2464766

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / CRB	8/12/20 1130	[signature]	8/12/20 1130
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
		RD	8/12 1625
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
RD	8/12 2000	SMN Pace	8-12-20 2315

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

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

SCUR)

WO# : 35570003

PM: CTR **Due Date: 08/19/20**

CLIENT: 36-CRBGEO

Project #

Project Manager:

Client:

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

Thermometer Used: T-338 Date: 8/12/20 Time: 2315 Initials: JMT

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

Cooler #1 Temp.°C	5 (Visual)	+.3 (Correction Factor)	5.1 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other

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

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

Tracking #

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐ Yes ☑ No ☐ N/A	Sample 3 Containers missing times
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☑ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

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

Thermometer Used: T-343 Date: 8/12/20 Time: 1625 Initials: RD

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

Cooler #1 Temp.°C	4.9 (Visual)	-0.1 (Correction Factor)	4.8 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

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

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

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	Courier did not relinquish
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☐ Yes ☐ No ☐ N/A	
Correct Containers Used	☐ Yes ☐ No ☐ N/A	
Containers Intact	☐ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked. All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐ Yes ☐ No ☐ N/A ☐ Yes ☐ No ☐ N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☐ N/A	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

August 21, 2020

Brad Compton
CRB Geological & Environmental Services
8744 S.W. 133rd Street
Miami, FL 33176

RE: Project: FIU 236-08
Pace Project No.: 35570004

Dear Brad Compton:

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

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,

Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: Emilia Echeveste, CRB Geological & Environmental Services
Barbara Livieri, CRB Geological & Environmental Services

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CERTIFICATIONS

Project: FIU 236-08
Pace Project No.: 35570004

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
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

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SAMPLE SUMMARY

Project: FIU 236-08
Pace Project No.: 35570004

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35570004001	**SB-8 (0-6'')**	Solid	08/11/20 09:00	08/12/20 16:25
35570004002	**SB-9 (0-6'')**	Solid	08/11/20 09:30	08/12/20 16:25
35570004003	**SB-10 (0-6'')**	Solid	08/11/20 10:00	08/12/20 16:25
35570004004	**SB-11 (0-6'')**	Solid	08/11/20 10:30	08/12/20 16:25
35570004005	**SB-12 (0-6'')**	Solid	08/11/20 11:05	08/12/20 16:25
35570004006	**SB-13 (0-6'')**	Solid	08/11/20 11:20	08/12/20 16:25
35570004007	**SB-14 (0-6'')**	Solid	08/11/20 11:35	08/12/20 16:25
35570004008	**SB-15 (0-6'')**	Solid	08/11/20 12:00	08/12/20 16:25

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SAMPLE ANALYTE COUNT

Project: FIU 236-08
Pace Project No.: 35570004

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35570004001	**SB-8 (0-6")**	EPA 8081	CB1	22	PASI-O
		EPA 6010	CS2	1	PASI-O
		ASTM D2974-87	JM2	1	PASI-O
35570004002	**SB-9 (0-6")**	EPA 8081	CB1	22	PASI-O
		EPA 6010	CS2	1	PASI-O
		ASTM D2974-87	JM2	1	PASI-O
35570004003	**SB-10 (0-6")**	EPA 8081	CB1	22	PASI-O
		FL-PRO	BMC	3	PASI-O
		EPA 6010	CS2	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	JM2	1	PASI-O
35570004004	**SB-11 (0-6")**	EPA 8081	CB1	22	PASI-O
		FL-PRO	BMC	3	PASI-O
		EPA 6010	CS2	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	JM2	1	PASI-O
35570004005	**SB-12 (0-6")**	EPA 8081	CB1	22	PASI-O
		EPA 6010	CS2	1	PASI-O
		ASTM D2974-87	JM2	1	PASI-O
35570004006	**SB-13 (0-6")**	EPA 8081	CB1	22	PASI-O
		EPA 6010	CS2	1	PASI-O
		ASTM D2974-87	JM2	1	PASI-O
35570004007	**SB-14 (0-6")**	EPA 8081	CB1	22	PASI-O
		EPA 6010	CS2	1	PASI-O
		ASTM D2974-87	JM2	1	PASI-O
35570004008	**SB-15 (0-6")**	EPA 8081	CB1	22	PASI-O
		EPA 6010	CS2	1	PASI-O
		ASTM D2974-87	JM2	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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SUMMARY OF DETECTION

Project: FIU 236-08
Pace Project No.: 35570004

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35570004001	**SB-8 (0-6")**					
EPA 6010	Arsenic	1.6	mg/kg	0.62	08/17/20 18:24	
ASTM D2974-87	Percent Moisture	11.8	%	0.10	08/19/20 09:58	
35570004002	**SB-9 (0-6")**					
EPA 6010	Arsenic	1.7	mg/kg	0.62	08/17/20 18:29	
ASTM D2974-87	Percent Moisture	12.6	%	0.10	08/19/20 09:58	
35570004003	**SB-10 (0-6")**					
FL-PRO	Petroleum Range Organics	19.5	mg/kg	14.7	08/14/20 13:16	P1
EPA 6010	Arsenic	1.9 I	mg/kg	3.4	08/17/20 18:43	
EPA 6010	Cadmium	0.47	mg/kg	0.34	08/17/20 18:43	
EPA 6010	Chromium	19.7	mg/kg	1.7	08/17/20 18:43	
EPA 6010	Lead	15.1	mg/kg	3.4	08/17/20 18:43	
ASTM D2974-87	Percent Moisture	10.8	%	0.10	08/19/20 09:58	
35570004004	**SB-11 (0-6")**					
FL-PRO	Petroleum Range Organics	16.3	mg/kg	14.0	08/14/20 13:32	P1
EPA 6010	Arsenic	3.8	mg/kg	2.8	08/17/20 18:48	
EPA 6010	Cadmium	0.36	mg/kg	0.28	08/17/20 18:48	
EPA 6010	Chromium	27.9	mg/kg	1.4	08/17/20 18:48	
EPA 6010	Lead	20.2	mg/kg	2.8	08/17/20 18:48	
ASTM D2974-87	Percent Moisture	7.4	%	0.10	08/19/20 09:58	
35570004005	**SB-12 (0-6")**					
EPA 6010	Arsenic	2.9 I	mg/kg	3.1	08/17/20 18:53	
ASTM D2974-87	Percent Moisture	18.7	%	0.10	08/19/20 09:58	
35570004006	**SB-13 (0-6")**					
EPA 8081	Dieldrin	0.0010 I	mg/kg	0.0083	08/20/20 23:43	J(L1),P1
EPA 6010	Arsenic	2.3 I	mg/kg	3.4	08/17/20 18:58	
ASTM D2974-87	Percent Moisture	15.3	%	0.10	08/19/20 09:58	
35570004007	**SB-14 (0-6")**					
EPA 6010	Arsenic	1.8 I	mg/kg	3.4	08/17/20 19:03	
ASTM D2974-87	Percent Moisture	14.0	%	0.10	08/19/20 09:59	
35570004008	**SB-15 (0-6")**					
EPA 8081	Dieldrin	0.0024 I	mg/kg	0.0097	08/21/20 00:17	J(L1)
EPA 6010	Arsenic	2.7 I	mg/kg	3.1	08/17/20 19:07	
ASTM D2974-87	Percent Moisture	12.6	%	0.10	08/19/20 09:59	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-8 (0-6") **Lab ID: 35570004001** Collected: 08/11/20 09:00 Received: 08/12/20 16:25 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 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00051 U**	mg/kg	0.0050	0.00051	1	08/14/20 05:26	08/21/20 11:18	309-00-2	J(L1), P1
alpha-BHC	**0.00050 U**	mg/kg	0.0050	0.00050	1	08/14/20 05:26	08/21/20 11:18	319-84-6	J(L1), P1
beta-BHC	**0.00060 U**	mg/kg	0.0050	0.00060	1	08/14/20 05:26	08/21/20 11:18	319-85-7	J(L1), P1
delta-BHC	**0.00026 U**	mg/kg	0.0050	0.00026	1	08/14/20 05:26	08/21/20 11:18	319-86-8	J(L1), P1
gamma-BHC (Lindane)	**0.00044 U**	mg/kg	0.0050	0.00044	1	08/14/20 05:26	08/21/20 11:18	58-89-9	J(L1), P1
Chlordane (Technical)	**0.015 U**	mg/kg	0.050	0.015	1	08/14/20 05:26	08/21/20 11:18	57-74-9	P1
4,4'-DDD	**0.00078 U**	mg/kg	0.0050	0.00078	1	08/14/20 05:26	08/21/20 11:18	72-54-8	J(L1), P1
4,4'-DDE	**0.00055 U**	mg/kg	0.0050	0.00055	1	08/14/20 05:26	08/21/20 11:18	72-55-9	J(L1), P1
4,4'-DDT	**0.00067 U**	mg/kg	0.0050	0.00067	1	08/14/20 05:26	08/21/20 11:18	50-29-3	J(L1), P1
Dieldrin	**0.00061 U**	mg/kg	0.0050	0.00061	1	08/14/20 05:26	08/21/20 11:18	60-57-1	J(L1), P1
Endosulfan I	**0.00056 U**	mg/kg	0.0050	0.00056	1	08/14/20 05:26	08/21/20 11:18	959-98-8	J(L1), P1
Endosulfan II	**0.00059 U**	mg/kg	0.0050	0.00059	1	08/14/20 05:26	08/21/20 11:18	33213-65-9	J(L1), P1
Endosulfan sulfate	**0.00060 U**	mg/kg	0.0050	0.00060	1	08/14/20 05:26	08/21/20 11:18	1031-07-8	J(L1), P1
Endrin	**0.00057 U**	mg/kg	0.0050	0.00057	1	08/14/20 05:26	08/21/20 11:18	72-20-8	J(L1), P1
Endrin aldehyde	**0.00064 U**	mg/kg	0.0098	0.00064	1	08/14/20 05:26	08/21/20 11:18	7421-93-4	P1
Endrin ketone	**0.00063 U**	mg/kg	0.0050	0.00063	1	08/14/20 05:26	08/21/20 11:18	53494-70-5	J(L1), P1
Heptachlor	**0.00053 U**	mg/kg	0.0050	0.00053	1	08/14/20 05:26	08/21/20 11:18	76-44-8	J(L1), P1
Heptachlor epoxide	**0.00090 U**	mg/kg	0.0050	0.00090	1	08/14/20 05:26	08/21/20 11:18	1024-57-3	J(L1), P1
Methoxychlor	**0.00074 U**	mg/kg	0.0050	0.00074	1	08/14/20 05:26	08/21/20 11:18	72-43-5	J(L1), P1
Toxaphene	**0.022 U**	mg/kg	0.050	0.022	1	08/14/20 05:26	08/21/20 11:18	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	99	%	53-140		1	08/14/20 05:26	08/21/20 11:18	877-09-8	
Decachlorobiphenyl (S)	103	%	43-157		1	08/14/20 05:26	08/21/20 11:18	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**1.6**	mg/kg	0.62	0.31	1	08/17/20 06:34	08/17/20 18:24	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**11.8**	%	0.10	0.10	1		08/19/20 09:58		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-9 (0-6") **Lab ID: 35570004002** Collected: 08/11/20 09:30 Received: 08/12/20 16:25 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 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00040 U**	mg/kg	0.0039	0.00040	1	08/14/20 05:26	08/21/20 11:36	309-00-2	J(L1), P1
alpha-BHC	**0.00039 U**	mg/kg	0.0039	0.00039	1	08/14/20 05:26	08/21/20 11:36	319-84-6	J(L1), P1
beta-BHC	**0.00047 U**	mg/kg	0.0039	0.00047	1	08/14/20 05:26	08/21/20 11:36	319-85-7	J(L1), P1
delta-BHC	**0.00020 U**	mg/kg	0.0039	0.00020	1	08/14/20 05:26	08/21/20 11:36	319-86-8	J(L1), P1
gamma-BHC (Lindane)	**0.00034 U**	mg/kg	0.0039	0.00034	1	08/14/20 05:26	08/21/20 11:36	58-89-9	J(L1), P1
Chlordane (Technical)	**0.012 U**	mg/kg	0.039	0.012	1	08/14/20 05:26	08/21/20 11:36	57-74-9	P1
4,4'-DDD	**0.00061 U**	mg/kg	0.0039	0.00061	1	08/14/20 05:26	08/21/20 11:36	72-54-8	J(L1), P1
4,4'-DDE	**0.00043 U**	mg/kg	0.0039	0.00043	1	08/14/20 05:26	08/21/20 11:36	72-55-9	J(L1), P1
4,4'-DDT	**0.00053 U**	mg/kg	0.0039	0.00053	1	08/14/20 05:26	08/21/20 11:36	50-29-3	J(L1), P1
Dieldrin	**0.00048 U**	mg/kg	0.0039	0.00048	1	08/14/20 05:26	08/21/20 11:36	60-57-1	J(L1), P1
Endosulfan I	**0.00044 U**	mg/kg	0.0039	0.00044	1	08/14/20 05:26	08/21/20 11:36	959-98-8	J(L1), P1
Endosulfan II	**0.00046 U**	mg/kg	0.0039	0.00046	1	08/14/20 05:26	08/21/20 11:36	33213-65-9	J(L1), P1
Endosulfan sulfate	**0.00047 U**	mg/kg	0.0039	0.00047	1	08/14/20 05:26	08/21/20 11:36	1031-07-8	J(L1), P1
Endrin	**0.00045 U**	mg/kg	0.0039	0.00045	1	08/14/20 05:26	08/21/20 11:36	72-20-8	J(L1), P1
Endrin aldehyde	**0.00050 U**	mg/kg	0.0077	0.00050	1	08/14/20 05:26	08/21/20 11:36	7421-93-4	P1
Endrin ketone	**0.00050 U**	mg/kg	0.0039	0.00050	1	08/14/20 05:26	08/21/20 11:36	53494-70-5	J(L1), P1
Heptachlor	**0.00041 U**	mg/kg	0.0039	0.00041	1	08/14/20 05:26	08/21/20 11:36	76-44-8	J(L1), P1
Heptachlor epoxide	**0.00071 U**	mg/kg	0.0039	0.00071	1	08/14/20 05:26	08/21/20 11:36	1024-57-3	J(L1), P1
Methoxychlor	**0.00058 U**	mg/kg	0.0039	0.00058	1	08/14/20 05:26	08/21/20 11:36	72-43-5	J(L1), P1
Toxaphene	**0.017 U**	mg/kg	0.039	0.017	1	08/14/20 05:26	08/21/20 11:36	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	95	%	53-140		1	08/14/20 05:26	08/21/20 11:36	877-09-8	
Decachlorobiphenyl (S)	99	%	43-157		1	08/14/20 05:26	08/21/20 11:36	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**1.7**	mg/kg	0.62	0.31	1	08/17/20 06:34	08/17/20 18:29	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**12.6**	%	0.10	0.10	1		08/19/20 09:58		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-10 (0-6") **Lab ID: 35570004003** Collected: 08/11/20 10:00 Received: 08/12/20 16:25 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 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00085 U**	mg/kg	0.0084	0.00085	2	08/14/20 05:26	08/20/20 23:09	309-00-2	J(L1), P1
alpha-BHC	**0.00084 U**	mg/kg	0.0084	0.00084	2	08/14/20 05:26	08/20/20 23:09	319-84-6	J(L1), P1
beta-BHC	**0.0010 U**	mg/kg	0.0084	0.0010	2	08/14/20 05:26	08/20/20 23:09	319-85-7	J(L1), P1
delta-BHC	**0.00043 U**	mg/kg	0.0084	0.00043	2	08/14/20 05:26	08/20/20 23:09	319-86-8	J(L1), P1
gamma-BHC (Lindane)	**0.00073 U**	mg/kg	0.0084	0.00073	2	08/14/20 05:26	08/20/20 23:09	58-89-9	J(L1), P1
Chlordane (Technical)	**0.025 U**	mg/kg	0.084	0.025	2	08/14/20 05:26	08/20/20 23:09	57-74-9	P1
4,4'-DDD	**0.0013 U**	mg/kg	0.0084	0.0013	2	08/14/20 05:26	08/20/20 23:09	72-54-8	J(L1), P1
4,4'-DDE	**0.00092 U**	mg/kg	0.0084	0.00092	2	08/14/20 05:26	08/20/20 23:09	72-55-9	J(C2), J(L1), P1
4,4'-DDT	**0.0011 U**	mg/kg	0.0084	0.0011	2	08/14/20 05:26	08/20/20 23:09	50-29-3	J(L1), P1
Dieldrin	**0.0010 U**	mg/kg	0.0084	0.0010	2	08/14/20 05:26	08/20/20 23:09	60-57-1	J(L1), P1
Endosulfan I	**0.00094 U**	mg/kg	0.0084	0.00094	2	08/14/20 05:26	08/20/20 23:09	959-98-8	J(L1), P1
Endosulfan II	**0.00098 U**	mg/kg	0.0084	0.00098	2	08/14/20 05:26	08/20/20 23:09	33213-65-9	J(L1), P1
Endosulfan sulfate	**0.0010 U**	mg/kg	0.0084	0.0010	2	08/14/20 05:26	08/20/20 23:09	1031-07-8	J(L1), P1
Endrin	**0.00096 U**	mg/kg	0.0084	0.00096	2	08/14/20 05:26	08/20/20 23:09	72-20-8	J(L1), P1
Endrin aldehyde	**0.0011 U**	mg/kg	0.016	0.0011	2	08/14/20 05:26	08/20/20 23:09	7421-93-4	P1
Endrin ketone	**0.0011 U**	mg/kg	0.0084	0.0011	2	08/14/20 05:26	08/20/20 23:09	53494-70-5	J(L1), P1
Heptachlor	**0.00088 U**	mg/kg	0.0084	0.00088	2	08/14/20 05:26	08/20/20 23:09	76-44-8	J(L1), P1
Heptachlor epoxide	**0.0015 U**	mg/kg	0.0084	0.0015	2	08/14/20 05:26	08/20/20 23:09	1024-57-3	J(L1), P1
Methoxychlor	**0.0012 U**	mg/kg	0.0084	0.0012	2	08/14/20 05:26	08/20/20 23:09	72-43-5	J(L1), P1
Toxaphene	**0.036 U**	mg/kg	0.084	0.036	2	08/14/20 05:26	08/20/20 23:09	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	99	%	53-140		2	08/14/20 05:26	08/20/20 23:09	877-09-8	
Decachlorobiphenyl (S)	96	%	43-157		2	08/14/20 05:26	08/20/20 23:09	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**19.5**	mg/kg	14.7	12.6	1	08/14/20 02:07	08/14/20 13:16		P1
Surrogates									
o-Terphenyl (S)	87	%	66-136		1	08/14/20 02:07	08/14/20 13:16	84-15-1	
N-Pentatriacontane (S)	86	%	42-159		1	08/14/20 02:07	08/14/20 13:16	630-07-09	

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(954)582-4300

ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-10 (0-6") **Lab ID: 35570004003** Collected: 08/11/20 10:00 Received: 08/12/20 16:25 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**1.9 I**	mg/kg	3.4	1.7	5	08/17/20 06:34	08/17/20 18:43	7440-38-2	
Cadmium	**0.47**	mg/kg	0.34	0.17	5	08/17/20 06:34	08/17/20 18:43	7440-43-9	
Chromium	**19.7**	mg/kg	1.7	0.85	5	08/17/20 06:34	08/17/20 18:43	7440-47-3	
Lead	**15.1**	mg/kg	3.4	1.7	5	08/17/20 06:34	08/17/20 18:43	7439-92-1	
8270 MSSV Short List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.024 U**	mg/kg	0.073	0.024	1	08/13/20 23:34	08/15/20 02:33	83-32-9	P1
Acenaphthylene	**0.021 U**	mg/kg	0.069	0.021	1	08/13/20 23:34	08/15/20 02:33	208-96-8	P1
Anthracene	**0.024 U**	mg/kg	0.073	0.024	1	08/13/20 23:34	08/15/20 02:33	120-12-7	P1
Benzo(a)anthracene	**0.020 U**	mg/kg	0.069	0.020	1	08/13/20 23:34	08/15/20 02:33	56-55-3	P1
Benzo(a)pyrene	**0.017 U**	mg/kg	0.069	0.017	1	08/13/20 23:34	08/15/20 02:33	50-32-8	P1
Benzo(b)fluoranthene	**0.018 U**	mg/kg	0.069	0.018	1	08/13/20 23:34	08/15/20 02:33	205-99-2	P1
Benzo(g,h,i)perylene	**0.017 U**	mg/kg	0.069	0.017	1	08/13/20 23:34	08/15/20 02:33	191-24-2	P1
Benzo(k)fluoranthene	**0.018 U**	mg/kg	0.069	0.018	1	08/13/20 23:34	08/15/20 02:33	207-08-9	P1
Chrysene	**0.022 U**	mg/kg	0.069	0.022	1	08/13/20 23:34	08/15/20 02:33	218-01-9	P1
Dibenz(a,h)anthracene	**0.016 U**	mg/kg	0.069	0.016	1	08/13/20 23:34	08/15/20 02:33	53-70-3	P1
Fluoranthene	**0.022 U**	mg/kg	0.069	0.022	1	08/13/20 23:34	08/15/20 02:33	206-44-0	P1
Fluorene	**0.024 U**	mg/kg	0.075	0.024	1	08/13/20 23:34	08/15/20 02:33	86-73-7	P1
Indeno(1,2,3-cd)pyrene	**0.016 U**	mg/kg	0.069	0.016	1	08/13/20 23:34	08/15/20 02:33	193-39-5	P1
1-Methylnaphthalene	**0.027 U**	mg/kg	0.081	0.027	1	08/13/20 23:34	08/15/20 02:33	90-12-0	P1
2-Methylnaphthalene	**0.026 U**	mg/kg	0.079	0.026	1	08/13/20 23:34	08/15/20 02:33	91-57-6	P1
Naphthalene	**0.024 U**	mg/kg	0.071	0.024	1	08/13/20 23:34	08/15/20 02:33	91-20-3	P1
Phenanthrene	**0.022 U**	mg/kg	0.069	0.022	1	08/13/20 23:34	08/15/20 02:33	85-01-8	P1
Pyrene	**0.022 U**	mg/kg	0.069	0.022	1	08/13/20 23:34	08/15/20 02:33	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	41	%	24-98		1	08/13/20 23:34	08/15/20 02:33	4165-60-0	
2-Fluorobiphenyl (S)	49	%	29-101		1	08/13/20 23:34	08/15/20 02:33	321-60-8	
p-Terphenyl-d14 (S)	69	%	29-112		1	08/13/20 23:34	08/15/20 02:33	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**10.8**	%	0.10	0.10	1		08/19/20 09:58		

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-11 (0-6") **Lab ID: 35570004004** Collected: 08/11/20 10:30 Received: 08/12/20 16:25 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 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00089 U**	mg/kg	0.0088	0.00089	2	08/14/20 05:26	08/20/20 23:26	309-00-2	J(L1), P1
alpha-BHC	**0.00088 U**	mg/kg	0.0088	0.00088	2	08/14/20 05:26	08/20/20 23:26	319-84-6	J(L1), P1
beta-BHC	**0.0011 U**	mg/kg	0.0088	0.0011	2	08/14/20 05:26	08/20/20 23:26	319-85-7	J(L1), P1
delta-BHC	**0.00045 U**	mg/kg	0.0088	0.00045	2	08/14/20 05:26	08/20/20 23:26	319-86-8	J(L1), P1
gamma-BHC (Lindane)	**0.00077 U**	mg/kg	0.0088	0.00077	2	08/14/20 05:26	08/20/20 23:26	58-89-9	J(L1), P1
Chlordane (Technical)	**0.026 U**	mg/kg	0.088	0.026	2	08/14/20 05:26	08/20/20 23:26	57-74-9	P1
4,4'-DDD	**0.0014 U**	mg/kg	0.0088	0.0014	2	08/14/20 05:26	08/20/20 23:26	72-54-8	J(L1), P1
4,4'-DDE	**0.00096 U**	mg/kg	0.0088	0.00096	2	08/14/20 05:26	08/20/20 23:26	72-55-9	J(L1), P1
4,4'-DDT	**0.0012 U**	mg/kg	0.0088	0.0012	2	08/14/20 05:26	08/20/20 23:26	50-29-3	J(L1), P1
Dieldrin	**0.0011 U**	mg/kg	0.0088	0.0011	2	08/14/20 05:26	08/20/20 23:26	60-57-1	J(L1), P1
Endosulfan I	**0.00098 U**	mg/kg	0.0088	0.00098	2	08/14/20 05:26	08/20/20 23:26	959-98-8	J(L1), P1
Endosulfan II	**0.0010 U**	mg/kg	0.0088	0.0010	2	08/14/20 05:26	08/20/20 23:26	33213-65-9	J(L1), P1
Endosulfan sulfate	**0.0011 U**	mg/kg	0.0088	0.0011	2	08/14/20 05:26	08/20/20 23:26	1031-07-8	J(L1), P1
Endrin	**0.0010 U**	mg/kg	0.0088	0.0010	2	08/14/20 05:26	08/20/20 23:26	72-20-8	J(L1), P1
Endrin aldehyde	**0.0011 U**	mg/kg	0.017	0.0011	2	08/14/20 05:26	08/20/20 23:26	7421-93-4	P1
Endrin ketone	**0.0011 U**	mg/kg	0.0088	0.0011	2	08/14/20 05:26	08/20/20 23:26	53494-70-5	J(L1), P1
Heptachlor	**0.00092 U**	mg/kg	0.0088	0.00092	2	08/14/20 05:26	08/20/20 23:26	76-44-8	J(L1), P1
Heptachlor epoxide	**0.0016 U**	mg/kg	0.0088	0.0016	2	08/14/20 05:26	08/20/20 23:26	1024-57-3	J(L1), P1
Methoxychlor	**0.0013 U**	mg/kg	0.0088	0.0013	2	08/14/20 05:26	08/20/20 23:26	72-43-5	J(L1), P1
Toxaphene	**0.038 U**	mg/kg	0.088	0.038	2	08/14/20 05:26	08/20/20 23:26	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	85	%	53-140		2	08/14/20 05:26	08/20/20 23:26	877-09-8	
Decachlorobiphenyl (S)	121	%	43-157		2	08/14/20 05:26	08/20/20 23:26	2051-24-3	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**16.3**	mg/kg	14.0	12.0	1	08/14/20 02:07	08/14/20 13:32		P1
Surrogates									
o-Terphenyl (S)	103	%	66-136		1	08/14/20 02:07	08/14/20 13:32	84-15-1	
N-Pentatriacontane (S)	103	%	42-159		1	08/14/20 02:07	08/14/20 13:32	630-07-09	

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-11 (0-6") **Lab ID: 35570004004** Collected: 08/11/20 10:30 Received: 08/12/20 16:25 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**3.8**	mg/kg	2.8	1.4	5	08/17/20 06:34	08/17/20 18:48	7440-38-2	
Cadmium	**0.36**	mg/kg	0.28	0.14	5	08/17/20 06:34	08/17/20 18:48	7440-43-9	
Chromium	**27.9**	mg/kg	1.4	0.69	5	08/17/20 06:34	08/17/20 18:48	7440-47-3	
Lead	**20.2**	mg/kg	2.8	1.4	5	08/17/20 06:34	08/17/20 18:48	7439-92-1	
8270 MSSV Short List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.032 U**	mg/kg	0.099	0.032	1	08/14/20 03:19	08/15/20 04:53	83-32-9	P1
Acenaphthylene	**0.029 U**	mg/kg	0.094	0.029	1	08/14/20 03:19	08/15/20 04:53	208-96-8	P1
Anthracene	**0.033 U**	mg/kg	0.099	0.033	1	08/14/20 03:19	08/15/20 04:53	120-12-7	P1
Benzo(a)anthracene	**0.027 U**	mg/kg	0.094	0.027	1	08/14/20 03:19	08/15/20 04:53	56-55-3	P1
Benzo(a)pyrene	**0.023 U**	mg/kg	0.094	0.023	1	08/14/20 03:19	08/15/20 04:53	50-32-8	P1
Benzo(b)fluoranthene	**0.025 U**	mg/kg	0.094	0.025	1	08/14/20 03:19	08/15/20 04:53	205-99-2	P1
Benzo(g,h,i)perylene	**0.023 U**	mg/kg	0.094	0.023	1	08/14/20 03:19	08/15/20 04:53	191-24-2	P1
Benzo(k)fluoranthene	**0.025 U**	mg/kg	0.094	0.025	1	08/14/20 03:19	08/15/20 04:53	207-08-9	P1
Chrysene	**0.030 U**	mg/kg	0.094	0.030	1	08/14/20 03:19	08/15/20 04:53	218-01-9	P1
Dibenz(a,h)anthracene	**0.022 U**	mg/kg	0.094	0.022	1	08/14/20 03:19	08/15/20 04:53	53-70-3	P1
Fluoranthene	**0.031 U**	mg/kg	0.094	0.031	1	08/14/20 03:19	08/15/20 04:53	206-44-0	P1
Fluorene	**0.033 U**	mg/kg	0.10	0.033	1	08/14/20 03:19	08/15/20 04:53	86-73-7	P1
Indeno(1,2,3-cd)pyrene	**0.021 U**	mg/kg	0.094	0.021	1	08/14/20 03:19	08/15/20 04:53	193-39-5	P1
1-Methylnaphthalene	**0.037 U**	mg/kg	0.11	0.037	1	08/14/20 03:19	08/15/20 04:53	90-12-0	P1
2-Methylnaphthalene	**0.036 U**	mg/kg	0.11	0.036	1	08/14/20 03:19	08/15/20 04:53	91-57-6	P1
Naphthalene	**0.032 U**	mg/kg	0.097	0.032	1	08/14/20 03:19	08/15/20 04:53	91-20-3	P1
Phenanthrene	**0.031 U**	mg/kg	0.094	0.031	1	08/14/20 03:19	08/15/20 04:53	85-01-8	P1
Pyrene	**0.029 U**	mg/kg	0.094	0.029	1	08/14/20 03:19	08/15/20 04:53	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	32	%	24-98		1	08/14/20 03:19	08/15/20 04:53	4165-60-0	
2-Fluorobiphenyl (S)	55	%	29-101		1	08/14/20 03:19	08/15/20 04:53	321-60-8	
p-Terphenyl-d14 (S)	69	%	29-112		1	08/14/20 03:19	08/15/20 04:53	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**7.4**	%	0.10	0.10	1		08/19/20 09:58		

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-12 (0-6") **Lab ID: 35570004005** Collected: 08/11/20 11:05 Received: 08/12/20 16:25 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 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00042 U**	mg/kg	0.0042	0.00042	2	08/14/20 05:26	08/17/20 21:15	309-00-2	J(L1)
alpha-BHC	**0.00042 U**	mg/kg	0.0042	0.00042	2	08/14/20 05:26	08/17/20 21:15	319-84-6	CU, J(L1)
beta-BHC	**0.00050 U**	mg/kg	0.0042	0.00050	2	08/14/20 05:26	08/17/20 21:15	319-85-7	J(L1)
delta-BHC	**0.00021 U**	mg/kg	0.0042	0.00021	2	08/14/20 05:26	08/17/20 21:15	319-86-8	CU, J(L1), J(M0)
gamma-BHC (Lindane)	**0.00036 U**	mg/kg	0.0042	0.00036	2	08/14/20 05:26	08/17/20 21:15	58-89-9	J(L1)
Chlordane (Technical)	**0.013 U**	mg/kg	0.042	0.013	2	08/14/20 05:26	08/17/20 21:15	57-74-9	
4,4'-DDD	**0.00065 U**	mg/kg	0.0042	0.00065	2	08/14/20 05:26	08/17/20 21:15	72-54-8	CU, J(L1)
4,4'-DDE	**0.00046 U**	mg/kg	0.0042	0.00046	2	08/14/20 05:26	08/17/20 21:15	72-55-9	CU, J(L1)
4,4'-DDT	**0.00056 U**	mg/kg	0.0042	0.00056	2	08/14/20 05:26	08/17/20 21:15	50-29-3	J(L1)
Dieldrin	**0.00051 U**	mg/kg	0.0042	0.00051	2	08/14/20 05:26	08/17/20 21:15	60-57-1	J(L1)
Endosulfan I	**0.00047 U**	mg/kg	0.0042	0.00047	2	08/14/20 05:26	08/17/20 21:15	959-98-8	J(L1)
Endosulfan II	**0.00049 U**	mg/kg	0.0042	0.00049	2	08/14/20 05:26	08/17/20 21:15	33213-65-9	CU, J(L1)
Endosulfan sulfate	**0.00050 U**	mg/kg	0.0042	0.00050	2	08/14/20 05:26	08/17/20 21:15	1031-07-8	CU, J(L1)
Endrin	**0.00048 U**	mg/kg	0.0042	0.00048	2	08/14/20 05:26	08/17/20 21:15	72-20-8	CU, J(L1)
Endrin aldehyde	**0.00053 U**	mg/kg	0.0081	0.00053	2	08/14/20 05:26	08/17/20 21:15	7421-93-4	
Endrin ketone	**0.00053 U**	mg/kg	0.0042	0.00053	2	08/14/20 05:26	08/17/20 21:15	53494-70-5	CU, J(L1), J(M0)
Heptachlor	**0.00044 U**	mg/kg	0.0042	0.00044	2	08/14/20 05:26	08/17/20 21:15	76-44-8	J(L1)
Heptachlor epoxide	**0.00075 U**	mg/kg	0.0042	0.00075	2	08/14/20 05:26	08/17/20 21:15	1024-57-3	J(L1)
Methoxychlor	**0.00062 U**	mg/kg	0.0042	0.00062	2	08/14/20 05:26	08/17/20 21:15	72-43-5	J(L1)
Toxaphene	**0.018 U**	mg/kg	0.042	0.018	2	08/14/20 05:26	08/17/20 21:15	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	53-140		2	08/14/20 05:26	08/17/20 21:15	877-09-8	
Decachlorobiphenyl (S)	95	%	43-157		2	08/14/20 05:26	08/17/20 21:15	2051-24-3	CU
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**2.9 I**	mg/kg	3.1	1.5	5	08/17/20 06:34	08/17/20 18:53	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**18.7**	%	0.10	0.10	1		08/19/20 09:58		

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-13 (0-6") **Lab ID: 35570004006** Collected: 08/11/20 11:20 Received: 08/12/20 16:25 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 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00083 U**	mg/kg	0.0083	0.00083	2	08/14/20 05:26	08/20/20 23:43	309-00-2	J(L1), P1
alpha-BHC	**0.00083 U**	mg/kg	0.0083	0.00083	2	08/14/20 05:26	08/20/20 23:43	319-84-6	J(L1), P1
beta-BHC	**0.00099 U**	mg/kg	0.0083	0.00099	2	08/14/20 05:26	08/20/20 23:43	319-85-7	J(L1), P1
delta-BHC	**0.00042 U**	mg/kg	0.0083	0.00042	2	08/14/20 05:26	08/20/20 23:43	319-86-8	J(L1), P1
gamma-BHC (Lindane)	**0.00072 U**	mg/kg	0.0083	0.00072	2	08/14/20 05:26	08/20/20 23:43	58-89-9	J(L1), P1
Chlordane (Technical)	**0.025 U**	mg/kg	0.083	0.025	2	08/14/20 05:26	08/20/20 23:43	57-74-9	P1
4,4'-DDD	**0.0013 U**	mg/kg	0.0083	0.0013	2	08/14/20 05:26	08/20/20 23:43	72-54-8	J(L1), P1
4,4'-DDE	**0.00091 U**	mg/kg	0.0083	0.00091	2	08/14/20 05:26	08/20/20 23:43	72-55-9	J(L1), P1
4,4'-DDT	**0.0011 U**	mg/kg	0.0083	0.0011	2	08/14/20 05:26	08/20/20 23:43	50-29-3	J(L1), P1
Dieldrin	**0.0010 I**	mg/kg	0.0083	0.0010	2	08/14/20 05:26	08/20/20 23:43	60-57-1	J(L1), P1
Endosulfan I	**0.00093 U**	mg/kg	0.0083	0.00093	2	08/14/20 05:26	08/20/20 23:43	959-98-8	J(L1), P1
Endosulfan II	**0.00097 U**	mg/kg	0.0083	0.00097	2	08/14/20 05:26	08/20/20 23:43	33213-65-9	J(L1), P1
Endosulfan sulfate	**0.00099 U**	mg/kg	0.0083	0.00099	2	08/14/20 05:26	08/20/20 23:43	1031-07-8	J(L1), P1
Endrin	**0.00094 U**	mg/kg	0.0083	0.00094	2	08/14/20 05:26	08/20/20 23:43	72-20-8	J(L1), P1
Endrin aldehyde	**0.0010 U**	mg/kg	0.016	0.0010	2	08/14/20 05:26	08/20/20 23:43	7421-93-4	P1
Endrin ketone	**0.0010 U**	mg/kg	0.0083	0.0010	2	08/14/20 05:26	08/20/20 23:43	53494-70-5	J(L1), P1
Heptachlor	**0.00087 U**	mg/kg	0.0083	0.00087	2	08/14/20 05:26	08/20/20 23:43	76-44-8	J(L1), P1
Heptachlor epoxide	**0.0015 U**	mg/kg	0.0083	0.0015	2	08/14/20 05:26	08/20/20 23:43	1024-57-3	J(C2), J(L1), P1
Methoxychlor	**0.0012 U**	mg/kg	0.0083	0.0012	2	08/14/20 05:26	08/20/20 23:43	72-43-5	J(L1), P1
Toxaphene	**0.036 U**	mg/kg	0.083	0.036	2	08/14/20 05:26	08/20/20 23:43	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	87	%	53-140		2	08/14/20 05:26	08/20/20 23:43	877-09-8	
Decachlorobiphenyl (S)	84	%	43-157		2	08/14/20 05:26	08/20/20 23:43	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**2.3 I**	mg/kg	3.4	1.7	5	08/17/20 06:34	08/17/20 18:58	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**15.3**	%	0.10	0.10	1		08/19/20 09:58		

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ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-14 (0-6") **Lab ID: 35570004007** Collected: 08/11/20 11:35 Received: 08/12/20 16:25 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 Pace Analytical Services - Ormond Beach								
Aldrin	**0.0019 U**	mg/kg	0.019	0.0019	5	08/14/20 05:26	08/21/20 00:00	309-00-2	J(L1), P1
alpha-BHC	**0.0019 U**	mg/kg	0.019	0.0019	5	08/14/20 05:26	08/21/20 00:00	319-84-6	J(L1), P1
beta-BHC	**0.0023 U**	mg/kg	0.019	0.0023	5	08/14/20 05:26	08/21/20 00:00	319-85-7	J(L1), P1
delta-BHC	**0.00097 U**	mg/kg	0.019	0.00097	5	08/14/20 05:26	08/21/20 00:00	319-86-8	J(L1), P1
gamma-BHC (Lindane)	**0.0017 U**	mg/kg	0.019	0.0017	5	08/14/20 05:26	08/21/20 00:00	58-89-9	J(L1), P1
Chlordane (Technical)	**0.057 U**	mg/kg	0.19	0.057	5	08/14/20 05:26	08/21/20 00:00	57-74-9	P1
4,4'-DDD	**0.0029 U**	mg/kg	0.019	0.0029	5	08/14/20 05:26	08/21/20 00:00	72-54-8	J(L1), P1
4,4'-DDE	**0.0021 U**	mg/kg	0.019	0.0021	5	08/14/20 05:26	08/21/20 00:00	72-55-9	J(L1), P1
4,4'-DDT	**0.0025 U**	mg/kg	0.019	0.0025	5	08/14/20 05:26	08/21/20 00:00	50-29-3	J(L1), P1
Dieldrin	**0.0023 U**	mg/kg	0.019	0.0023	5	08/14/20 05:26	08/21/20 00:00	60-57-1	J(L1), P1
Endosulfan I	**0.0021 U**	mg/kg	0.019	0.0021	5	08/14/20 05:26	08/21/20 00:00	959-98-8	J(L1), P1
Endosulfan II	**0.0022 U**	mg/kg	0.019	0.0022	5	08/14/20 05:26	08/21/20 00:00	33213-65-9	J(L1), P1
Endosulfan sulfate	**0.0023 U**	mg/kg	0.019	0.0023	5	08/14/20 05:26	08/21/20 00:00	1031-07-8	J(L1), P1
Endrin	**0.0022 U**	mg/kg	0.019	0.0022	5	08/14/20 05:26	08/21/20 00:00	72-20-8	J(L1), P1
Endrin aldehyde	**0.0024 U**	mg/kg	0.037	0.0024	5	08/14/20 05:26	08/21/20 00:00	7421-93-4	P1
Endrin ketone	**0.0024 U**	mg/kg	0.019	0.0024	5	08/14/20 05:26	08/21/20 00:00	53494-70-5	J(L1), P1
Heptachlor	**0.0020 U**	mg/kg	0.019	0.0020	5	08/14/20 05:26	08/21/20 00:00	76-44-8	J(L1), P1
Heptachlor epoxide	**0.0034 U**	mg/kg	0.019	0.0034	5	08/14/20 05:26	08/21/20 00:00	1024-57-3	J(L1), P1
Methoxychlor	**0.0028 U**	mg/kg	0.019	0.0028	5	08/14/20 05:26	08/21/20 00:00	72-43-5	J(L1), P1
Toxaphene	**0.082 U**	mg/kg	0.19	0.082	5	08/14/20 05:26	08/21/20 00:00	8001-35-2	P1
Surrogates									
Tetrachloro-m-xylene (S)	97	%	53-140		5	08/14/20 05:26	08/21/20 00:00	877-09-8	
Decachlorobiphenyl (S)	102	%	43-157		5	08/14/20 05:26	08/21/20 00:00	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**1.8 I**	mg/kg	3.4	1.7	5	08/17/20 06:34	08/17/20 19:03	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**14.0**	%	0.10	0.10	1		08/19/20 09:59		

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(954)582-4300

ANALYTICAL RESULTS

Project: FIU 236-08
Pace Project No.: 35570004

Sample: SB-15 (0-6") **Lab ID: 35570004008** Collected: 08/11/20 12:00 Received: 08/12/20 16:25 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 Pace Analytical Services - Ormond Beach								
Aldrin	**0.00098 U**	mg/kg	0.0097	0.00098	5	08/14/20 05:26	08/21/20 00:17	309-00-2	J(L1)
alpha-BHC	**0.00097 U**	mg/kg	0.0097	0.00097	5	08/14/20 05:26	08/21/20 00:17	319-84-6	J(L1)
beta-BHC	**0.0012 U**	mg/kg	0.0097	0.0012	5	08/14/20 05:26	08/21/20 00:17	319-85-7	J(L1)
delta-BHC	**0.00050 U**	mg/kg	0.0097	0.00050	5	08/14/20 05:26	08/21/20 00:17	319-86-8	J(L1)
gamma-BHC (Lindane)	**0.00085 U**	mg/kg	0.0097	0.00085	5	08/14/20 05:26	08/21/20 00:17	58-89-9	J(L1)
Chlordane (Technical)	**0.029 U**	mg/kg	0.097	0.029	5	08/14/20 05:26	08/21/20 00:17	57-74-9	
4,4'-DDD	**0.0015 U**	mg/kg	0.0097	0.0015	5	08/14/20 05:26	08/21/20 00:17	72-54-8	J(L1)
4,4'-DDE	**0.0011 U**	mg/kg	0.0097	0.0011	5	08/14/20 05:26	08/21/20 00:17	72-55-9	J(L1)
4,4'-DDT	**0.0013 U**	mg/kg	0.0097	0.0013	5	08/14/20 05:26	08/21/20 00:17	50-29-3	J(C2), J(L1)
Dieldrin	**0.0024 I**	mg/kg	0.0097	0.0012	5	08/14/20 05:26	08/21/20 00:17	60-57-1	J(L1)
Endosulfan I	**0.0011 U**	mg/kg	0.0097	0.0011	5	08/14/20 05:26	08/21/20 00:17	959-98-8	J(L1)
Endosulfan II	**0.0011 U**	mg/kg	0.0097	0.0011	5	08/14/20 05:26	08/21/20 00:17	33213-65-9	J(L1)
Endosulfan sulfate	**0.0012 U**	mg/kg	0.0097	0.0012	5	08/14/20 05:26	08/21/20 00:17	1031-07-8	J(L1)
Endrin	**0.0011 U**	mg/kg	0.0097	0.0011	5	08/14/20 05:26	08/21/20 00:17	72-20-8	J(L1)
Endrin aldehyde	**0.0012 U**	mg/kg	0.019	0.0012	5	08/14/20 05:26	08/21/20 00:17	7421-93-4	
Endrin ketone	**0.0012 U**	mg/kg	0.0097	0.0012	5	08/14/20 05:26	08/21/20 00:17	53494-70-5	J(L1)
Heptachlor	**0.0010 U**	mg/kg	0.0097	0.0010	5	08/14/20 05:26	08/21/20 00:17	76-44-8	J(L1)
Heptachlor epoxide	**0.0017 U**	mg/kg	0.0097	0.0017	5	08/14/20 05:26	08/21/20 00:17	1024-57-3	J(L1)
Methoxychlor	**0.0014 U**	mg/kg	0.0097	0.0014	5	08/14/20 05:26	08/21/20 00:17	72-43-5	J(L1)
Toxaphene	**0.042 U**	mg/kg	0.097	0.042	5	08/14/20 05:26	08/21/20 00:17	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	53-140		5	08/14/20 05:26	08/21/20 00:17	877-09-8	
Decachlorobiphenyl (S)	89	%	43-157		5	08/14/20 05:26	08/21/20 00:17	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Ormond Beach								
Arsenic	**2.7 I**	mg/kg	3.1	1.5	5	08/17/20 06:34	08/17/20 19:07	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Ormond Beach								
Percent Moisture	**12.6**	%	0.10	0.10	1		08/19/20 09:59		

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

QC Batch: 657503 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: 6010 MET Solid
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570004001, 35570004002, 35570004003, 35570004004, 35570004005, 35570004006, 35570004007, 35570004008

METHOD BLANK: 3576051 — Matrix: Solid
Associated Lab Samples: 35570004001, 35570004002, 35570004003, 35570004004, 35570004005, 35570004006, 35570004007, 35570004008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.31 U	0.61	0.31	08/17/20 17:46	
Cadmium	mg/kg	0.031 U	0.061	0.031	08/17/20 17:46	
Chromium	mg/kg	0.15 U	0.31	0.15	08/17/20 17:46	
Lead	mg/kg	0.31 U	0.61	0.31	08/17/20 17:46	

LABORATORY CONTROL SAMPLE: 3576052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	15.3	15.2	99	80-120	
Cadmium	mg/kg	1.5	1.6	103	80-120	
Chromium	mg/kg	15.3	16.2	106	80-120	
Lead	mg/kg	15.3	16.2	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3576053 3576054

Parameter	Units	35568071060 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	2.4 I	18.9	18.9	20.4	21.5	95	101	75-125	5	20	
Cadmium	mg/kg	0.16 U	1.8	2	2.0	2.0	104	105	75-125	1	20	
Chromium	mg/kg	3.9	18.9	18.9	21.8	23.0	95	101	75-125	5	20	
Lead	mg/kg	9.1	18.9	18.9	26.2	28.3	91	101	75-125	8	20	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

QC Batch: 656985 | Analysis Method: EPA 8081
QC Batch Method: EPA 3546 | Analysis Description: 8081 GCS Pesticides
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570004001, 35570004002, 35570004003, 35570004004, 35570004005, 35570004006, 35570004007, 35570004008

METHOD BLANK: 3572247 Matrix: Solid
Associated Lab Samples: 35570004001, 35570004002, 35570004003, 35570004004, 35570004005, 35570004006, 35570004007, 35570004008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	mg/kg	0.00026 U	0.0017	0.00026	08/17/20 20:20	
4,4'-DDE	mg/kg	0.00019 U	0.0017	0.00019	08/17/20 20:20	
4,4'-DDT	mg/kg	0.00023 U	0.0017	0.00023	08/17/20 20:20	
Aldrin	mg/kg	0.00017 U	0.0017	0.00017	08/17/20 20:20	
alpha-BHC	mg/kg	0.00017 U	0.0017	0.00017	08/17/20 20:20	
beta-BHC	mg/kg	0.00020 U	0.0017	0.00020	08/17/20 20:20	
Chlordane (Technical)	mg/kg	0.0051 U	0.017	0.0051	08/17/20 20:20	
delta-BHC	mg/kg	0.000087 U	0.0017	0.000087	08/17/20 20:20	
Dieldrin	mg/kg	0.00021 U	0.0017	0.00021	08/17/20 20:20	
Endosulfan I	mg/kg	0.00019 U	0.0017	0.00019	08/17/20 20:20	
Endosulfan II	mg/kg	0.00020 U	0.0017	0.00020	08/17/20 20:20	
Endosulfan sulfate	mg/kg	0.00020 U	0.0017	0.00020	08/17/20 20:20	
Endrin	mg/kg	0.00019 U	0.0017	0.00019	08/17/20 20:20	
Endrin aldehyde	mg/kg	0.00021 U	0.0033	0.00021	08/17/20 20:20	
Endrin ketone	mg/kg	0.00021 U	0.0017	0.00021	08/17/20 20:20	
gamma-BHC (Lindane)	mg/kg	0.00015 U	0.0017	0.00015	08/17/20 20:20	
Heptachlor	mg/kg	0.00018 U	0.0017	0.00018	08/17/20 20:20	
Heptachlor epoxide	mg/kg	0.00030 U	0.0017	0.00030	08/17/20 20:20	
Methoxychlor	mg/kg	0.00025 U	0.0017	0.00025	08/17/20 20:20	
Toxaphene	mg/kg	0.0073 U	0.017	0.0073	08/17/20 20:20	
Decachlorobiphenyl (S)	%	111	43-157		08/17/20 20:20	
Tetrachloro-m-xylene (S)	%	96	53-140		08/17/20 20:20	

LABORATORY CONTROL SAMPLE: 3572248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	mg/kg	0.016	0.026	156	62-144	J(L1)
4,4'-DDE	mg/kg	0.016	0.025	154	67-141	J(L1)
4,4'-DDT	mg/kg	0.016	0.029	174	57-159	J(L1)
Aldrin	mg/kg	0.016	0.024	148	70-136	J(L1)
alpha-BHC	mg/kg	0.016	0.026	158	67-136	J(L1)
beta-BHC	mg/kg	0.016	0.024	146	68-131	J(L1)
delta-BHC	mg/kg	0.016	0.029	174	58-120	J(L1)
Dieldrin	mg/kg	0.016	0.025	149	63-145	J(L1)
Endosulfan I	mg/kg	0.016	0.024	148	66-129	J(L1)
Endosulfan II	mg/kg	0.016	0.025	150	59-130	J(L1)
Endosulfan sulfate	mg/kg	0.016	0.027	165	57-137	J(L1)

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

LABORATORY CONTROL SAMPLE: 3572248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	mg/kg	0.016	0.027	164	67-147	J(L1)
Endrin aldehyde	mg/kg	0.016	0.024	144	54-144	
Endrin ketone	mg/kg	0.016	0.029	175	60-139	J(L1)
gamma-BHC (Lindane)	mg/kg	0.016	0.026	157	69-137	J(L1)
Heptachlor	mg/kg	0.016	0.024	146	68-135	J(L1)
Heptachlor epoxide	mg/kg	0.016	0.024	147	68-135	J(L1)
Methoxychlor	mg/kg	0.016	0.030	179	57-153	J(L1)
Decachlorobiphenyl (S)	%			151	43-157	
Tetrachloro-m-xylene (S)	%			139	53-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3572475 3572476

Parameter	Units	35570004005 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	0.00065 U	0.021	0.021	0.022	0.021	111	105	62-144	5	40	
4,4'-DDE	mg/kg	0.00046 U	0.021	0.021	0.021	0.020	104	98	67-141	6	40	
4,4'-DDT	mg/kg	0.00056 U	0.021	0.021	0.027	0.025	133	121	57-159	9	40	
Aldrin	mg/kg	0.00042 U	0.021	0.021	0.020	0.019	99	95	70-136	4	40	
alpha-BHC	mg/kg	0.00042 U	0.021	0.021	0.021	0.020	103	100	67-136	4	40	
beta-BHC	mg/kg	0.00050 U	0.021	0.021	0.022	0.021	107	104	68-131	3	40	
delta-BHC	mg/kg	0.00021 U	0.021	0.021	0.025	0.024	121	116	58-120	4	40	J(M0)
Dieldrin	mg/kg	0.00051 U	0.021	0.021	0.021	0.020	105	99	63-145	6	40	
Endosulfan I	mg/kg	0.00047 U	0.021	0.021	0.021	0.020	102	98	66-129	4	40	
Endosulfan II	mg/kg	0.00049 U	0.021	0.021	0.023	0.021	114	104	59-130	9	40	
Endosulfan sulfate	mg/kg	0.00050 U	0.021	0.021	0.025	0.024	125	120	57-137	4	40	
Endrin	mg/kg	0.00048 U	0.021	0.021	0.023	0.022	113	107	67-147	6	40	
Endrin aldehyde	mg/kg	0.00053 U	0.021	0.021	0.020	0.019	100	96	54-144	5	40	
Endrin ketone	mg/kg	0.00053 U	0.021	0.021	0.029	0.028	143	137	60-139	4	40	J(M0)
gamma-BHC (Lindane)	mg/kg	0.00036 U	0.021	0.021	0.021	0.021	105	102	69-137	4	40	
Heptachlor	mg/kg	0.00044 U	0.021	0.021	0.020	0.019	99	95	68-135	4	40	
Heptachlor epoxide	mg/kg	0.00075 U	0.021	0.021	0.020	0.019	99	95	68-135	5	40	
Methoxychlor	mg/kg	0.00062 U	0.021	0.021	0.027	0.025	135	122	57-153	11	40	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3572475 3572476

Parameter	Units	35570004005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Decachlorobiphenyl (S)	%						104	99	43-157			
Tetrachloro-m-xylene (S)	%						84	78	53-140			

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

QC Batch: 656987
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave Short Spike
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35570004003

METHOD BLANK: 3572255 Matrix: Solid
Associated Lab Samples: 35570004003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	0.013 U	0.040	0.013	08/14/20 16:49	
2-Methylnaphthalene	mg/kg	0.013 U	0.039	0.013	08/14/20 16:49	
Acenaphthene	mg/kg	0.012 U	0.036	0.012	08/14/20 16:49	
Acenaphthylene	mg/kg	0.011 U	0.034	0.011	08/14/20 16:49	
Anthracene	mg/kg	0.012 U	0.036	0.012	08/14/20 16:49	
Benzo(a)anthracene	mg/kg	0.0097 U	0.034	0.0097	08/14/20 16:49	
Benzo(a)pyrene	mg/kg	0.0084 U	0.034	0.0084	08/14/20 16:49	
Benzo(b)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	08/14/20 16:49	
Benzo(g,h,i)perylene	mg/kg	0.0085 U	0.034	0.0085	08/14/20 16:49	
Benzo(k)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	08/14/20 16:49	
Chrysene	mg/kg	0.011 U	0.034	0.011	08/14/20 16:49	
Dibenz(a,h)anthracene	mg/kg	0.0078 U	0.034	0.0078	08/14/20 16:49	
Fluoranthene	mg/kg	0.011 U	0.034	0.011	08/14/20 16:49	
Fluorene	mg/kg	0.012 U	0.037	0.012	08/14/20 16:49	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0077 U	0.034	0.0077	08/14/20 16:49	
Naphthalene	mg/kg	0.012 U	0.035	0.012	08/14/20 16:49	
Phenanthrene	mg/kg	0.011 U	0.034	0.011	08/14/20 16:49	
Pyrene	mg/kg	0.011 U	0.034	0.011	08/14/20 16:49	
2-Fluorobiphenyl (S)	%	45	29-101		08/14/20 16:49	
Nitrobenzene-d5 (S)	%	48	24-98		08/14/20 16:49	
p-Terphenyl-d14 (S)	%	52	29-112		08/14/20 16:49	

LABORATORY CONTROL SAMPLE: 3572256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	1.7	0.80	48	38-115	
2-Methylnaphthalene	mg/kg	1.7	0.84	51	37-115	
Acenaphthene	mg/kg	1.7	0.80	48	30-127	
Acenaphthylene	mg/kg	1.7	0.89	54	29-129	
Anthracene	mg/kg	1.7	1.0	61	37-126	
Benzo(a)anthracene	mg/kg	1.7	1.1	64	37-130	
Benzo(a)pyrene	mg/kg	1.7	1.0	61	39-128	
Benzo(b)fluoranthene	mg/kg	1.7	0.98	59	38-128	
Benzo(g,h,i)perylene	mg/kg	1.7	1.1	68	34-136	
Benzo(k)fluoranthene	mg/kg	1.7	1.0	63	39-133	
Chrysene	mg/kg	1.7	1.1	66	39-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.1	68	37-127	
Fluoranthene	mg/kg	1.7	1.1	66	39-130	
Fluorene	mg/kg	1.7	0.94	56	35-125	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

LABORATORY CONTROL SAMPLE: 3572256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.1	67	35-133	
Naphthalene	mg/kg	1.7	0.81	49	36-115	
Phenanthrene	mg/kg	1.7	1.0	60	35-128	
Pyrene	mg/kg	1.7	1.0	62	37-132	
2-Fluorobiphenyl (S)	%			51	29-101	
Nitrobenzene-d5 (S)	%			53	24-98	
p-Terphenyl-d14 (S)	%			66	29-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3572274 3572275

Parameter	Units	35569992001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	0.014 U	1.7	1.8	1.1	1.0	62	56	38-115	9	40	
2-Methylnaphthalene	mg/kg	0.014 U	1.7	1.8	1.1	1.0	64	57	37-115	10	40	
Acenaphthene	mg/kg	0.013 U	1.7	1.8	1.1	1.0	61	56	30-127	8	40	
Acenaphthylene	mg/kg	0.012 U	1.7	1.8	1.2	1.1	67	60	29-129	9	40	
Anthracene	mg/kg	0.013 U	1.7	1.8	1.3	1.2	75	64	37-126	15	40	
Benzo(a)anthracene	mg/kg	0.011 U	1.7	1.8	1.4	1.2	80	67	37-130	16	40	
Benzo(a)pyrene	mg/kg	0.0091 U	1.7	1.8	1.4	1.2	79	64	39-128	19	40	
Benzo(b)fluoranthene	mg/kg	0.0098 U	1.7	1.8	1.3	1.1	75	64	38-128	15	40	
Benzo(g,h,i)perylene	mg/kg	0.0092 U	1.7	1.8	1.6	1.3	88	70	34-136	21	40	
Benzo(k)fluoranthene	mg/kg	0.0098 U	1.7	1.8	1.4	1.2	81	66	39-133	19	40	
Chrysene	mg/kg	0.012 U	1.7	1.8	1.5	1.2	82	69	39-125	17	40	
Dibenz(a,h)anthracene	mg/kg	0.0085 U	1.7	1.8	1.5	1.2	86	69	37-127	20	40	
Fluoranthene	mg/kg	0.012 U	1.7	1.8	1.5	1.3	83	70	39-130	16	40	
Fluorene	mg/kg	0.013 U	1.7	1.8	1.2	1.1	67	62	35-125	7	40	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0084 U	1.7	1.8	1.5	1.2	86	69	35-133	21	40	
Naphthalene	mg/kg	0.013 U	1.7	1.8	1.1	0.98	62	55	36-115	11	40	
Phenanthrene	mg/kg	0.012 U	1.7	1.8	1.3	1.1	72	62	35-128	13	40	
Pyrene	mg/kg	0.012 U	1.7	1.8	1.3	1.1	75	64	37-132	15	40	
2-Fluorobiphenyl (S)	%						63	56	29-101			
Nitrobenzene-d5 (S)	%						65	56	24-98			
p-Terphenyl-d14 (S)	%						79	66	29-112			

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

QC Batch: 656988
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave Short Spike
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35570004004

METHOD BLANK: 3572257 Matrix: Solid
Associated Lab Samples: 35570004004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	0.013 U	0.040	0.013	08/15/20 01:05	
2-Methylnaphthalene	mg/kg	0.013 U	0.039	0.013	08/15/20 01:05	
Acenaphthene	mg/kg	0.012 U	0.036	0.012	08/15/20 01:05	
Acenaphthylene	mg/kg	0.011 U	0.034	0.011	08/15/20 01:05	
Anthracene	mg/kg	0.012 U	0.036	0.012	08/15/20 01:05	
Benzo(a)anthracene	mg/kg	0.0096 U	0.034	0.0096	08/15/20 01:05	
Benzo(a)pyrene	mg/kg	0.0084 U	0.034	0.0084	08/15/20 01:05	
Benzo(b)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	08/15/20 01:05	
Benzo(g,h,i)perylene	mg/kg	0.0085 U	0.034	0.0085	08/15/20 01:05	
Benzo(k)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	08/15/20 01:05	
Chrysene	mg/kg	0.011 U	0.034	0.011	08/15/20 01:05	
Dibenz(a,h)anthracene	mg/kg	0.0078 U	0.034	0.0078	08/15/20 01:05	
Fluoranthene	mg/kg	0.011 U	0.034	0.011	08/15/20 01:05	
Fluorene	mg/kg	0.012 U	0.037	0.012	08/15/20 01:05	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0077 U	0.034	0.0077	08/15/20 01:05	
Naphthalene	mg/kg	0.012 U	0.035	0.012	08/15/20 01:05	
Phenanthrene	mg/kg	0.011 U	0.034	0.011	08/15/20 01:05	
Pyrene	mg/kg	0.011 U	0.034	0.011	08/15/20 01:05	
2-Fluorobiphenyl (S)	%	44	29-101		08/15/20 01:05	
Nitrobenzene-d5 (S)	%	30	24-98		08/15/20 01:05	
p-Terphenyl-d14 (S)	%	59	29-112		08/15/20 01:05	

LABORATORY CONTROL SAMPLE: 3572258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	1.7	0.80	48	38-115	
2-Methylnaphthalene	mg/kg	1.7	0.82	49	37-115	
Acenaphthene	mg/kg	1.7	0.85	51	30-127	
Acenaphthylene	mg/kg	1.7	0.92	55	29-129	
Anthracene	mg/kg	1.7	1.0	63	37-126	
Benzo(a)anthracene	mg/kg	1.7	1.2	70	37-130	
Benzo(a)pyrene	mg/kg	1.7	1.1	69	39-128	
Benzo(b)fluoranthene	mg/kg	1.7	1.1	67	38-128	
Benzo(g,h,i)perylene	mg/kg	1.7	1.1	67	34-136	
Benzo(k)fluoranthene	mg/kg	1.7	1.2	71	39-133	
Chrysene	mg/kg	1.7	1.2	70	39-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.2	70	37-127	
Fluoranthene	mg/kg	1.7	1.1	67	39-130	
Fluorene	mg/kg	1.7	0.95	58	35-125	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

LABORATORY CONTROL SAMPLE: 3572258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.1	67	35-133	
Naphthalene	mg/kg	1.7	0.76	46	36-115	
Phenanthrene	mg/kg	1.7	1.0	62	35-128	
Pyrene	mg/kg	1.7	1.1	67	37-132	
2-Fluorobiphenyl (S)	%			51	29-101	
Nitrobenzene-d5 (S)	%			32	24-98	
p-Terphenyl-d14 (S)	%			66	29-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3572365 3572366

Parameter	Units	35570080001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	0.015 U	1.8	2	1.1	1.3	57	67	38-115	19	40	
2-Methylnaphthalene	mg/kg	0.015 U	1.8	2	1.1	1.3	57	69	37-115	22	40	
Acenaphthene	mg/kg	0.013 U	1.8	2	1.1	1.3	58	68	30-127	18	40	
Acenaphthylene	mg/kg	0.012 U	1.8	2	1.2	1.5	64	75	29-129	19	40	
Anthracene	mg/kg	0.014 U	1.8	2	1.2	1.5	62	76	37-126	23	40	
Benzo(a)anthracene	mg/kg	0.011 U	1.8	2	1.2	1.5	63	79	37-130	26	40	
Benzo(a)pyrene	mg/kg	0.0097 U	1.8	2	1.2	1.5	61	77	39-128	26	40	
Benzo(b)fluoranthene	mg/kg	0.010 U	1.8	2	1.2	1.5	61	76	38-128	24	40	
Benzo(g,h,i)perylene	mg/kg	0.0098 U	1.8	2	1.1	1.5	57	75	34-136	29	40	
Benzo(k)fluoranthene	mg/kg	0.010 U	1.8	2	1.2	1.6	65	81	39-133	25	40	
Chrysene	mg/kg	0.012 U	1.8	2	1.2	1.6	63	80	39-125	26	40	
Dibenz(a,h)anthracene	mg/kg	0.0090 U	1.8	2	1.1	1.5	60	79	37-127	30	40	
Fluoranthene	mg/kg	0.013 U	1.8	2	1.2	1.6	65	84	39-130	28	40	
Fluorene	mg/kg	0.014 U	1.8	2	1.2	1.5	64	75	35-125	18	40	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0089 U	1.8	2	1.1	1.5	59	77	35-133	29	40	
Naphthalene	mg/kg	0.013 U	1.8	2	1.0	1.3	55	65	36-115	20	40	
Phenanthrene	mg/kg	0.013 U	1.8	2	1.2	1.5	64	78	35-128	22	40	
Pyrene	mg/kg	0.012 U	1.8	2	1.2	1.5	61	75	37-132	24	40	
2-Fluorobiphenyl (S)	%						59	67	29-101			
Nitrobenzene-d5 (S)	%						41	50	24-98			
p-Terphenyl-d14 (S)	%						59	73	29-112			

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

QC Batch: 656990
QC Batch Method: EPA 3546
Analysis Method: FL-PRO
Analysis Description: FL-PRO Soil
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570004003, 35570004004

METHOD BLANK: 3572261 Matrix: Solid
Associated Lab Samples: 35570004003, 35570004004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	5.1 U	5.9	5.1	08/14/20 11:59	
N-Pentatriacontane (S)	%	98	42-159		08/14/20 11:59	
o-Terphenyl (S)	%	97	66-136		08/14/20 11:59	

LABORATORY CONTROL SAMPLE: 3572262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	201	172	85	65-119	
N-Pentatriacontane (S)	%			103	42-159	
o-Terphenyl (S)	%			105	66-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3572338 3572339

Parameter	Units	35570065001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/kg	6.5 U	313	287	268	241	85	83	39-181	11	25	
N-Pentatriacontane (S)	%						103	106	42-159			
o-Terphenyl (S)	%						107	105	66-136			

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

QC Batch: 658033
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35570004001, 35570004002, 35570004003, 35570004004, 35570004005, 35570004006, 35570004007, 35570004008

SAMPLE DUPLICATE: 3578064

Parameter	Units	35568097022 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.2	19.7	3	10	

SAMPLE DUPLICATE: 3578065

Parameter	Units	35569992002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.7	3.6	2	10	

SAMPLE DUPLICATE: 3578066

Parameter	Units	35569998007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	31.9	28.2	12	10	J(D6)

SAMPLE DUPLICATE: 3578067

Parameter	Units	35569998015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.3	9.3	10	10	

SAMPLE DUPLICATE: 3578068

Parameter	Units	35570065001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.6	5.9	5	10	

SAMPLE DUPLICATE: 3578069

Parameter	Units	35570065008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.5	4.2	8	10	

SAMPLE DUPLICATE: 3578070

Parameter	Units	35570473001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.1	17.9	1	10	

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QUALITY CONTROL DATA

Project: FIU 236-08
Pace Project No.: 35570004

SAMPLE DUPLICATE: 3578071

Parameter	Units	35570486003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.0	11.3	5	10	

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QUALIFIERS

Project: FIU 236-08
Pace Project No.: 35570004

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.

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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.
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(C2)	Estimated Value. Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
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.
P1	Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FIU 236-08
Pace Project No.: 35570004

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35570004001	**SB-8 (0-6")**	EPA 3546	656985	EPA 8081	657030
35570004002	**SB-9 (0-6")**	EPA 3546	656985	EPA 8081	657030
35570004003	**SB-10 (0-6")**	EPA 3546	656985	EPA 8081	657030
35570004004	**SB-11 (0-6")**	EPA 3546	656985	EPA 8081	657030
35570004005	**SB-12 (0-6")**	EPA 3546	656985	EPA 8081	657030
35570004006	**SB-13 (0-6")**	EPA 3546	656985	EPA 8081	657030
35570004007	**SB-14 (0-6")**	EPA 3546	656985	EPA 8081	657030
35570004008	**SB-15 (0-6")**	EPA 3546	656985	EPA 8081	657030
35570004003	**SB-10 (0-6")**	EPA 3546	656990	FL-PRO	657019
35570004004	**SB-11 (0-6")**	EPA 3546	656990	FL-PRO	657019
35570004001	**SB-8 (0-6")**	EPA 3050	657503	EPA 6010	657600
35570004002	**SB-9 (0-6")**	EPA 3050	657503	EPA 6010	657600
35570004003	**SB-10 (0-6")**	EPA 3050	657503	EPA 6010	657600
35570004004	**SB-11 (0-6")**	EPA 3050	657503	EPA 6010	657600
35570004005	**SB-12 (0-6")**	EPA 3050	657503	EPA 6010	657600
35570004006	**SB-13 (0-6")**	EPA 3050	657503	EPA 6010	657600
35570004007	**SB-14 (0-6")**	EPA 3050	657503	EPA 6010	657600
35570004008	**SB-15 (0-6")**	EPA 3050	657503	EPA 6010	657600
35570004003	**SB-10 (0-6")**	EPA 3546	656987	EPA 8270	657043
35570004004	**SB-11 (0-6")**	EPA 3546	656988	EPA 8270	657259
35570004001	**SB-8 (0-6")**	ASTM D2974-87	658033		
35570004002	**SB-9 (0-6")**	ASTM D2974-87	658033		
35570004003	**SB-10 (0-6")**	ASTM D2974-87	658033		
35570004004	**SB-11 (0-6")**	ASTM D2974-87	658033		
35570004005	**SB-12 (0-6")**	ASTM D2974-87	658033		
35570004006	**SB-13 (0-6")**	ASTM D2974-87	658033		
35570004007	**SB-14 (0-6")**	ASTM D2974-87	658033		
35570004008	**SB-15 (0-6")**	ASTM D2974-87	658033		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: CRB Geological	Billing Information:
Address: 8744 SW 133 St	
Report To: Brad Compton	Email To: Bcompton@CRBGEO.net
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: FIU 236-08	State: / County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 305 447 9777 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): David Babbitt	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solic (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	OCP	As	PAH	TRPH	Pb, Cd, Cr,	Lab Profile/Line:
SB-8 (0-6")	SL				8/11/20	0900		1	X	X				
SB-9 (0-6")						0930			X	X				
SB-10 (0-6")						1000			X	X	X	X	X	
SB-11 (0-6")						1030			X	X	X	X	X	
SB-12 (0-6")						1105			X	X				
SB-13 (0-6")						1120			X	X				
SB-14 (0-6")						1135			X	X				
SB-15 (0-6")						1200			X	X				

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

WO# : 35570004

35570004

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2464767

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

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

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

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

WO#: 35570004 (SCUR)

PM: CTR Due Date: 08/19/20

CLIENT: 36-CRBGEO

Project #

Project Manager:

Client:

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

Thermometer Used: T-338 Date: 8/12/20 Time: 2318 Initials: JMT

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

Cooler #1 Temp.°C	5 (Visual)	+.3 (Correction Factor)	5.1 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other

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

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

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☐ No **Ice:** ☑ Wet ☐ Blue ☐ Dry ☐ None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐ Yes ☑ No ☐ N/A	Sample 5 Container missing time.
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☑ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐ Yes ☐ No ☑ N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☑ N/A	
Trip Blank Present:	☐ Yes ☐ No ☑ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

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

Thermometer Used: T-343 Date: 8/12/20 Time: 1625 Initials: RD

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

Cooler #1 Temp.°C 4.9	**(Visual)** -0.1	**(Correction Factor)** 4.8	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

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

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

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

Comments:

Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	Courier did not relinquish
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☐Yes ☐ No ☐N/A	
Correct Containers Used	☐Yes ☐ No ☐N/A	
Containers Intact	☐Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☐Yes ☐ No ☐N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐Yes ☐ No ☐N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☐N/A	
Trip Blank Present:	☐Yes ☐ No ☐N/A	

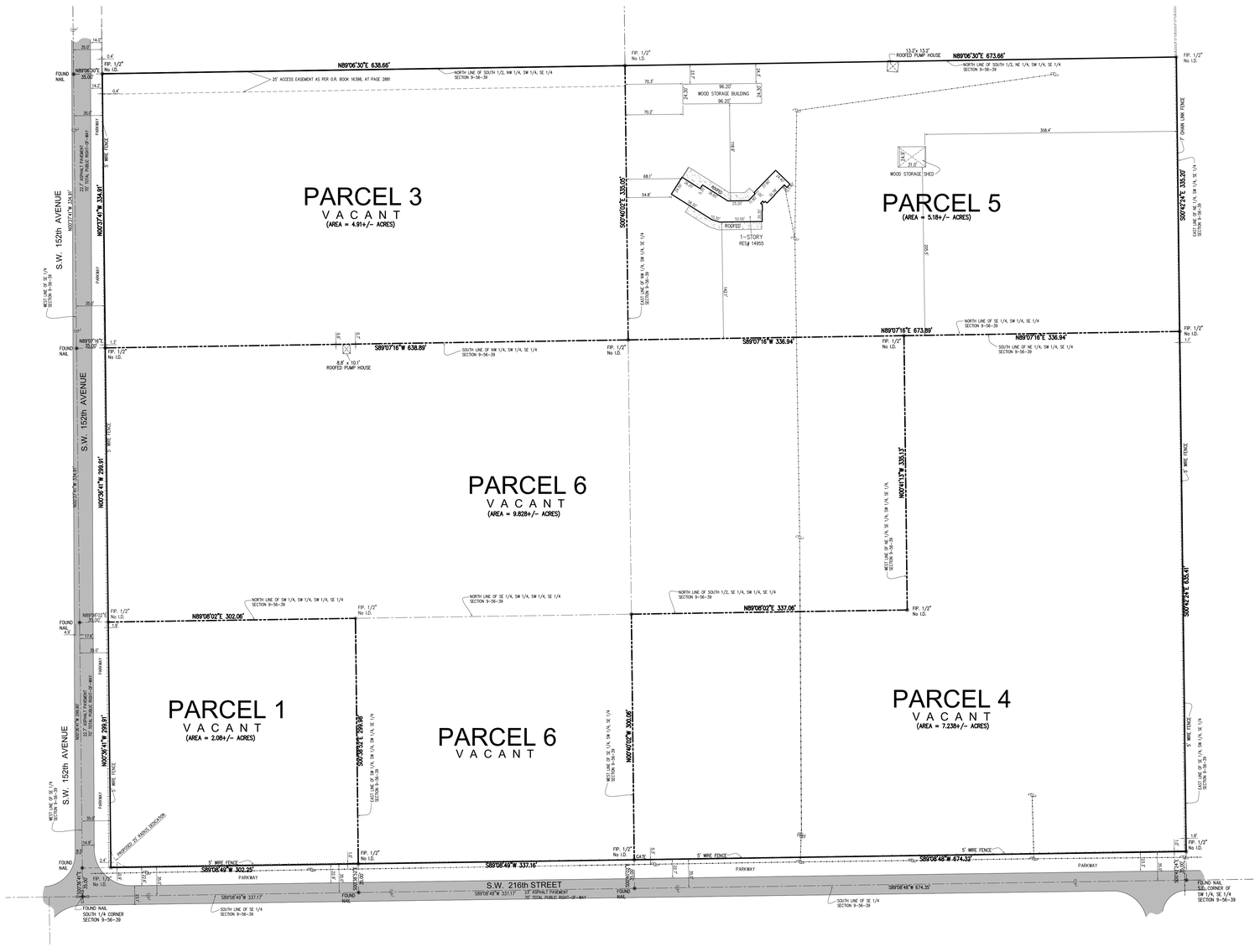
Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

ALTA / NSPS LAND TITLE SURVEY

GRAPHIC SCALE
60' 0 30' 60' 120' 240'
(IN FEET)
1 inch = 60 ft.



S.W. 1/4, S.E. 1/4 OF SECTION 9-56s-39e
VICINITY MAP
NOT TO SCALE

LEGAL DESCRIPTION

PARCEL 1: (folio #30-6909-000-0211)
The Southwest 1/4 of the Southwest 1/4 of the Southeast 1/4, of Section 9, Township 56 South, Range 39 East, LESS the South 35 feet and LESS the West 35 feet thereof. Said lands situate, lying and being in Miami-Dade County, Florida.

PARCEL 2: INTENTIOALLY DELETED.

PARCEL 3: (folio #30-6909-000-0305)
The South 1/2 of the Northwest 1/4 of the Southwest 1/4 of the Southeast 1/4, of Section 9, Township 56 South, Range 39 East, LESS the West 35 feet thereof. Said lands situate, lying and being in Miami-Dade County, Florida.

PARCEL 4: (folio #30-6909-000-0400)
The Northeast 1/4 of the Southeast 1/4 of the Southwest 1/4 of the Southeast 1/4, AND The South 1/2 of the Southeast 1/4 of the Southwest 1/4 of the Southeast 1/4, of Section 9, Township 56 South, Range 39 East, LESS the South 35 feet thereof. Said lands situate, lying and being in Miami-Dade County, Florida.

PARCEL 5: (folio #30-6909-000-0220)
The South 1/2 of the Northeast 1/4 of the Southeast 1/4, of Section 9, Township 56 South, Range 39 East. Said lands situate, lying and being in Miami-Dade County, Florida.

PARCEL 6: (folio #30-6909-000-0207)
The West 3/4 of the North 1/2 of the South 1/2 of the SW 1/4 of the SE 1/4 of Section 9, Township 56
South, Range 39 East, Miami-Dade County, Florida; LESS the West 35.00 feet thereof, and
The SE 1/4 of the SW 1/4 of the SW 1/4 of the SE 1/4 of Section 9, Township 56 South, Range 39 East, Miami-Dade County, Florida; LESS the South 35.00 feet thereof.

SURVEYOR'S NOTES:

1- The Legal Description was obtained from OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, Commitment for Title Insurance.
2- This is not a Certification of Title, Zoning, Easements, or Freedom of Encumbrances. ABSTRACT NOT REVIEWED.
3- An examination of Commitment issued by OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, File No.: 17114976, effective date: June 30, 2020 @ 8:00 AM, revised July 14, 2020 @ 12:53 P.M., was made to determine recorded instruments, if any affecting this property. However, there may be additional restrictions not shown on this survey that may be found in the Public Records of this County.
4- No attempt was made by this firm to locate underground utilities, foundations and/or footings of buildings, walls or fences, except as shown hereon, if any.
5- Underground utilities are not depicted hereon, contact the appropriate authority prior to any design work or construction on the property herein described. Surveyor shall be notified as to any deviation from utilities shown hereon.
6- Contact the appropriate authority prior to any design work on the herein – described parcel for Building and Zoning information.
7- The surveyor does not determine fence and/or wall ownership.
8- Accuracy:
The Horizontal positional accuracy of well-defined improvement on this survey is +/-0.2'.
The Vertical accuracy of elevations of well-defined improvement on this survey is +/-0.1'
9- All measurements shown hereon are made in accordance with the United States Standard Feet.
10- Type of survey: ALTA/ NSPS LAND TITLE SURVEY.
11- The North arrow shown hereon are as shown on recorded plat of of "DAVIE ROAD TRIANGLE PLAT", according to the Plat thereof, as recorded in Plat Book 178, Page 173, of the Public Records of Broward County, Florida.
12- Elevations shown hereon are relative to National Geodetic Vertical Datum (1929 Mean Sea Level)
13- Benchmark Used: N/A
14- Flood Zone Data: Community/ Panel #120635/0583/L Dated: 9/11/09
Flood Zone: "X" Base Flood Elevation = N/A
15- ZONING INFORMATION: Zoning Classification: AU (AGRICULTURE)
Source: Miami-Dade County Planning & Zoning Department
16- Subject property has access to a public right-of-way SW 216 Street & SW 152 Avenue
17- All visible above ground utilities noted on survey sketch.
18- There are no evidence of delineation of wetlands noted on Subject Site.
19- There are no noted changes in street right-of-way lines nor evidence of recent street construction or repairs.
20- Area of Site: 29.23+/- acres
21- There are no apparent encroachments either way across property line.
22- There are no gaps or gores inherent to the Subject Property based on the field survey performed and the title commitment provided.
23- This SURVEY has been prepared for the exclusive use of the entities named hereon.
The Certificate does not extend to any unnamed party:

- FLORIDA INTERNATIONAL UNIVERSITY FUNDATION, INC, a Florida nonprofit corporation
- THE FLORIDA INTERNATIONAL UNIVERSITY BOARD OF TRUSTEES
- HOLLAND & KNIGHT LLP
- OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY

SURVEYOR'S CERTIFICATE:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA / NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items:
1 thru 4, 6(a), 6(b), 7(a), 7(c), 8, 9, 13, 16, 17, 18 and 20 of Table A thereof.
I further certify That this Survey meets the intent of the required Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

Not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to this survey by other than the signing party are prohibited without written consent of the signing party.

_____
For the Firm Royal Point Land Surveyors, Inc LB# 7282

☐ JACOB GOMIS, PROFESSIONAL SURVEYOR AND MAPPER LS# 6231 STATE OF FLORIDA

☐ PABLO J. ALFONSO, PROFESSIONAL SURVEYOR AND MAPPER LS# 5880 STATE OF FLORIDA

Date of Survey: June 25, 2020

LEGEND

- Overhead Wire Line
- Wood Fence
- Chain Link Fence
- Iron Fence
- Monument Line
- Centerline
- Property Line

A = Arc
BRG = Bearing
Ch = Chord
Δ = Delta
L = Length
R = Radius
T = Tangent
Ø = Diameter

= Existing Elevations
= Catch Basin
= Water Meter
= Electric Box
= Sanitary Manhole
= Sprinkler Pump
= Wood Pole
= Conc. Pole
= Light Pole
= Fire Hydrant
= Water Valve
= Inlet
= Cable Tv Box
= Electric Meter Box
= Traffic Signal Box
= Gas Valve
= Monitoring Valve
= Manhole

AIC = Air Conditioner
Conc. = Concrete
C.B.S. = Concrete Block & Stucco
(D) = Deed
D.E. = Drainage Easement
D.M.E. = Drainage Maintenance Easement
F.D.H. = Found Drill Hole
F.F.E. = Finish Floor Elevation
F.I.P. = Found Iron Pipe/Pin
F.I.R. = Found Iron Rebar
F.N. = Found Nail
F.N.D = Found Nail & Disc
F.P.L. = Florida Power Light
H = Height
L.M.E. = Lake Maintenance Easement
(M) = Measured
(P) = Platted
P.O.B. = Point of Beginning
P.O.C. = Point of Commencement
(R) = Record
Res. = Residence
SIPR = Set Iron Pin/Rebar
S = Spread
U.E. = Utility Easement

TITLE REVIEW NOTES:

SCHEDULE B – SECTION II

TITLE COMMITMENT PROVIDED BY:
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
File No.: 17114976, effective date: June 30, 2020 @ 8:00 AM, revised July 14, 2020 @ 12:53 P.M.

Items 1 through 7: ""General & Special Exceptions"

8- Reservation of access easement along the North 25 feet of the South 1/2 of the Northwest 1/4 of the Southwest 1/4 of the Southeast 1/4 of Section 9, Township 56 South, Range 39 East, as recorded in Official Records Book 16398, Page 2881, of the Public Records of Miami-Dade County, Florida. (Does affect Subject Property – Plotted on Survey)(As to Parcel 3)

PROPERTY ADDRESS:

15055 SW 216 STREET, MIAMI, FLORIDA 33170

RECORD OF REVISION

NO.	DATE	DESCRIPTION	BY	APP.

ROYAL POINT LAND SURVEYORS, INC. L.B.# 7282
6175 NW 153rd STREET. SUITE 321, MIAMI LAKES, FL. 33014 *** TEL: 305-822-6062 *** FAX:305-827-9669
info@RoyalPointLS.com

TYPE OF SURVEY: ALTA / NSPS LAND TITLE SURVEY

PREPARED FOR: FLORIDA INTERNATIONAL UNIVERSITY BOARD OF TRUSTEES

DRAWN: J.G.
CHECKED: P.J.A.
SCALE: 1" = 20'
FIELD DATE: 06/25/2020
JOB No.: RP20-0673
SHEET: 1 OF 1 SHEET

C:\Users\jalonso\Desktop\15055 SW 216 STREET_ALTA_UPDATE_RP20-0488.dwg 7/31/2020

This Document is not full and complete without all Sheets, Containing a total of (1) Sheets

DocuSign Envelope ID: 97FAE528-83FA-491D-B2E6-C0741FA43AC2

DocuSign Envelope ID: 76E80037-CE4B-49F3-A75C-CACA4D395769

FIU | FLORIDA INTERNATIONAL UNIVERSITY

Funding Certification Form

This form is required by the FIU Board of Trustees ("BOT") and/or a committee of the BOT as a condition for approval of items, containing a funding component, that come for approval before the Board and/or a BOT committee pursuant to the Delegations of Authority from the BOT to the University President or otherwise.

Item name/description: Approval of Gift of Real Property and New Educational Site, Possum Trot

Funding Source(s): CAS Dean Univ College OH activity 2020130005 / Fund Code: 335

This is to certify that the above item has been reviewed and approved, and to the best of our professional judgment and knowledge, the type of funding for the item is authorized by state law and Board of Governors Regulations, and the Trustees may reasonably and in good faith rely on this certification.

DocuSigned by:
Michael Heithaus
55B748010125456...

Michael Heithaus, Dean
College of Arts, Sciences & Education

10/16/2020
Date

DocuSigned by:
Kenneth Furton
51248E6B1E12468...

Kenneth G. Furton, Provost
Executive Vice President and COO

10/20/2020
Date

Kenneth A. Jessell, Sr. Vice President and
Chief Financial Officer

10-16-2020
Date

DocuSigned by:
7E5CBEF9E1654F6...

Carlos B. Castillo, General Counsel

10/21/2020
Date

Mark B. Rosenberg, President

10/21/20
Date

Possum Trot

Request for Feedback

1. *The proposal mentions the potential opportunity for teaching, educational offerings and an increase in job-oriented degrees. Please explain what degrees, courses, or specific teaching opportunities will occur at this site, and to what extent*.

   As part of the Agroecology program in the Department of Earth and Environment within the College of Arts, Science and Education, student will get to conduct field experience (on site learning) at Possum Trot. The following courses will incorporate field experiences at Possum Trot into their curricula:

   - Horticulture and Lab – HOS 3012/L
   - Agriculture Colloquium - AGR 3930
   - Integrated Pest Management – IPM 4020
   - Soils and Lab, Sustainable Agriculture – EVR 4592/L
   - Advance Modern Crop Production - EVR 5935
   - Sustainable Farming System – AGR 6251

   Adult Learner/Student workshops to be offered on site are:

   - Horticulture Professional Certificate Level I (FNGLA)
   - Beekeeping
   - International Workshop on Agroecology and Sustainable Agriculture
   - Food Certification

2. *Will FIU be partnering with any SUS institutions as part of Possum Trot's "extensive network?" If so, have any MOUs been created? Are MOUs in place for the specific sites referenced in the proposal?*

   Many of our faculty conduct research and collaborate with colleagues across the SUS, including University of Florida's Tropical Research and Education Center (TREC), which is in the same area as Possum Trot. Currently there are no MOU's in place specific to Possum Trot.

3. *When will the land gift be transferred to FIU or has the transfer already occurred?*

   The land will be transferred on or around November 13, 2020

4. *What is the revenue source for the workshops that FIU plans to sponsor through this center?*

   The revenue source will be Auxiliary income in the form of fees from participants in these non-credit workshops.

5. *What are the ongoing expenses?*
   Landscape and parking space maintenance.

6. *What is the income source for expenditures?*

   License fees for the use of Parcel A

7. *Please explain the $36,761 annual expenditure.*

   The projected costs of this project have been revised to reflect additional elements requested by the Florida International University Board of Trustees after submission to the Board of Governors. All numbers in the application have been revised to reflect this change including the $36,761 reflected above.

8. *Please submit a revised timeline of critical benchmarks.*

Approval by FIU Board of Trustees	October 28, 2020
Approval by Board of Governors	November 5, 2020
Transfer of Gift and other assets to FIU	November 13, 2020
Infrastructure Improvements (Fencing)	November 13, 2020
License of land to farmer tenant	November 20, 2020

THE FLORIDA INTERNATIONAL UNIVERSITY
BOARD OF TRUSTEES
Finance and Facilities Committee
October 28, 2020

Subject: Approval of the Agreement for Integrated Branding, Marketing and Communication Services (E-ITN-2019-00009)

Proposed Committee Action:

Pursuant to the Delegations of Authority from the Florida International University Board of Trustees to the University President, as reflected in the Resolution on the President's Powers and Duties approved by the Board of Trustees on March 4, 2019, recommend that the Florida International University Board of Trustees (BOT) approve (i) the media incentive budget of up to $2.5M annually for the duration of the 160over90 agreement, which was approved by the Board of Trustees in April 2019, (ii) estimated additional expenditures by various FIU departments under the aforementioned agreement, which were not originally anticipated, and (iii) authorize the University President or his designee to execute, on behalf of the University, a contract document with terms consistent with those set forth herein.

Background Information:

The BOT approved the contract with 160over90 for Integrated Branding Marketing and Communication Services on April 18, 2019, with estimated total cost of the Agreement at $1,967,800 for a five-year term before any savings or incentives. Per the Agreement, media incentives must be agreed to at the beginning of each fiscal year. A budget of up to $2.5M has been allocated annually to create and execute effective brand marketing for the University as a whole. In addition, several FIU departments decided to use the Agreement for 160over90 services whereas such expenditures were not originally anticipated and, as such, were not included in the total cost of the Agreement. Therefore, the increase of the estimated total spend under the Agreement requires BOT approval as per the Resolution on the President's Powers and Duties.

Estimated additional annual cost of the Agreement: up to $3M for Initial Term, and up to $6M if renewed as provided in the Agreement. The cost is calculated based on historical spend data and estimated costs.

Funding source: The master agreement is funded from the $32M LBR; Unit addendums are funded by unit budget allocation.

Supporting Documentation: Media Buy Summary
Funding Certification Form

Facilitator/Presenter: Sandra B. Gonzalez-Levy

Overall Budget Summary

Tactic	Media Budget	Production & Sponsorships Budget
Peer & Influencer Media Buy	$700,000	$450,000
Greater Miami Perception Campaign	$600,000	
DC Influencer Campaign	$250,000	
Non-Miami Alumni Perception Campaign	$200,000	
Transfer Student Acquisition	$150,000	
Non-resident Student Acquisition	$150,000	
Total	$2,050,000	$450,000

Peer & Influencer Media Buy

Audiences

Primary: Chancellors, Presidents, Provosts, VPs, Directors of Admissions

Secondary: Deans, Faculty, Staff

Timing

Times Higher Ed Survey Period:
Nov. 2020-Feb. 2021

Ramp up to US News survey period:
Jan-March 2021

US News survey period: April-May 2021

Key Metric

US News Reputation Score
Currently 2.6 – need to get to 3

Greater Miami Perception Campaign

Audiences

Greater Miami Community – 3 Counties: Miami-Dade, Broward, Palm Beach

Timing

December 2020 – June 2021

Key Metrics

Annual Brand Survey, Web and Social Traffic
Goal: Brand Awareness, Pride, Recall to increase overall sentiment towards FIU

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FIU | FLORIDA INTERNATIONAL UNIVERSITY

Funding Certification Form

This form is required by the FIU Board of Trustees ("BOT") and/or a committee of the BOT as a condition for approval of items, containing a funding component, that come for approval before the Board and/or a BOT committee pursuant to the Delegations of Authority from the BOT to the University President or otherwise.

Item name/description: Approval of the Agreement for Integrated Branding, Marketing and Communication Services (E-ITN-2019-00009)

Funding Source(s): E&G

This is to certify that the above item has been reviewed and approved, and to the best of our professional judgment and knowledge, the type of funding for the item is authorized by state law and Board of Governors Regulations, and the Trustees may reasonably and in good faith rely on this certification.

DocuSigned by:
Sandra Gonzalez-Levy
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Sandra Gonzalez-Levy, Sr. Vice President
External Relations

10/16/2020
Date

Kenneth A. Jessell, Sr. Vice President and
Chief Financial Officer

10-16-2020
Date

DocuSigned by:
Carlos B. Castillo, General Counsel
7E5CBEF9E1654F6...

10/16/2020
Date

Mark B. Rosenberg, President

10/21/20
Date

THE FLORIDA INTERNATIONAL UNIVERSITY
BOARD OF TRUSTEES
Finance and Facilities Committee
October 28, 2020

Subject: Facility Renaming from "Torrey Pines at FIU" to "FIU Center for Translational Science (FIU-CTS)"

Proposed Committee Action:

Recommend that the Florida International University Board of Trustees approve the renaming of "Torrey Pines at FIU" to "FIU Center for Translational Science (FIU-CTS)"

Background Information:

As part of the FIU branding for Torrey Pines that was discussed at the time of approval by the Board of Trustees of the Torrey Pines asset acquisition, the University seeks to have the name of that Special Purpose Center changed to the "FIU Center for Translational Science." The name Torrey Pines (Torrey Pines Institute for Molecular Studies) has no connection to FIU or real name recognition outside of California. Moreover, the proposed name represents the type of research that will be taking place at that facility. As part of the establishment of the Special Purpose Center approval with the Board of Governors related to the Torrey Pines asset acquisition, the following language was included:

> *This facility will enhance FIU's research base in the STEM fields of chemistry and chemical biology and accelerate FIU's translational medicinal chemistry and chemical biology research, drug discovery and basic research efforts leading to the cure of diseases in areas of cancer and neurodegenerative diseases.*

Hence, the new name better describes the purpose of the Special Purpose Center. The name change also will complement other branding, including signage, paint colors and landscaping planned.

Supporting Documentation: None

Facilitator/Presenter: Kenneth G. Furton