



3109 Grand Ave #297
Miami, FL 33133

305.799.6319
treesources.com

In collaboration
with Nature

Coral Gables Mangrove Stewardship

February 2024

TREESOURCES

+

**CORAL
GABLES.**
THE CITY BEAUTIFUL

Treesources is a green infrastructure company that works in collaboration with Nature.
We intentionally weave adaptive and resilient ecosystems into urban life.



Our Team

Treesources provides expertise in green infrastructure, mangrove stewardship, and arboriculture projects.

Our team strives to provide public and private sector clients with high-quality, professional, environmental and arboriculture consulting services. We have a demonstrated track record of success on mangrove stewardship projects in Miami-Dade County.

Treesources' team includes ISA Certified Arborists, certified Professional Mangrove Trimmers, and Scientists with extensive knowledge of local environments.

Treesources is located in Miami, Florida, allowing the team to be responsive to Coral Gables Waterway Advisory Board and the residents of Coral Gables.



Why We're Here

Coral Gables Waterway Advisory Board is seeking recommendations for the stewardship of mangroves with the goals of preserving mangrove health, restoring historic vistas, restoring/maintaining navigation and access for docking structures, and creating additional clearance of mangroves from homes and other structures.

Coral Gables Waterway requires a local team with the skill set and experience to integrate blue/green infrastructure solutions and navigate the nexus of mangroves with management needs.

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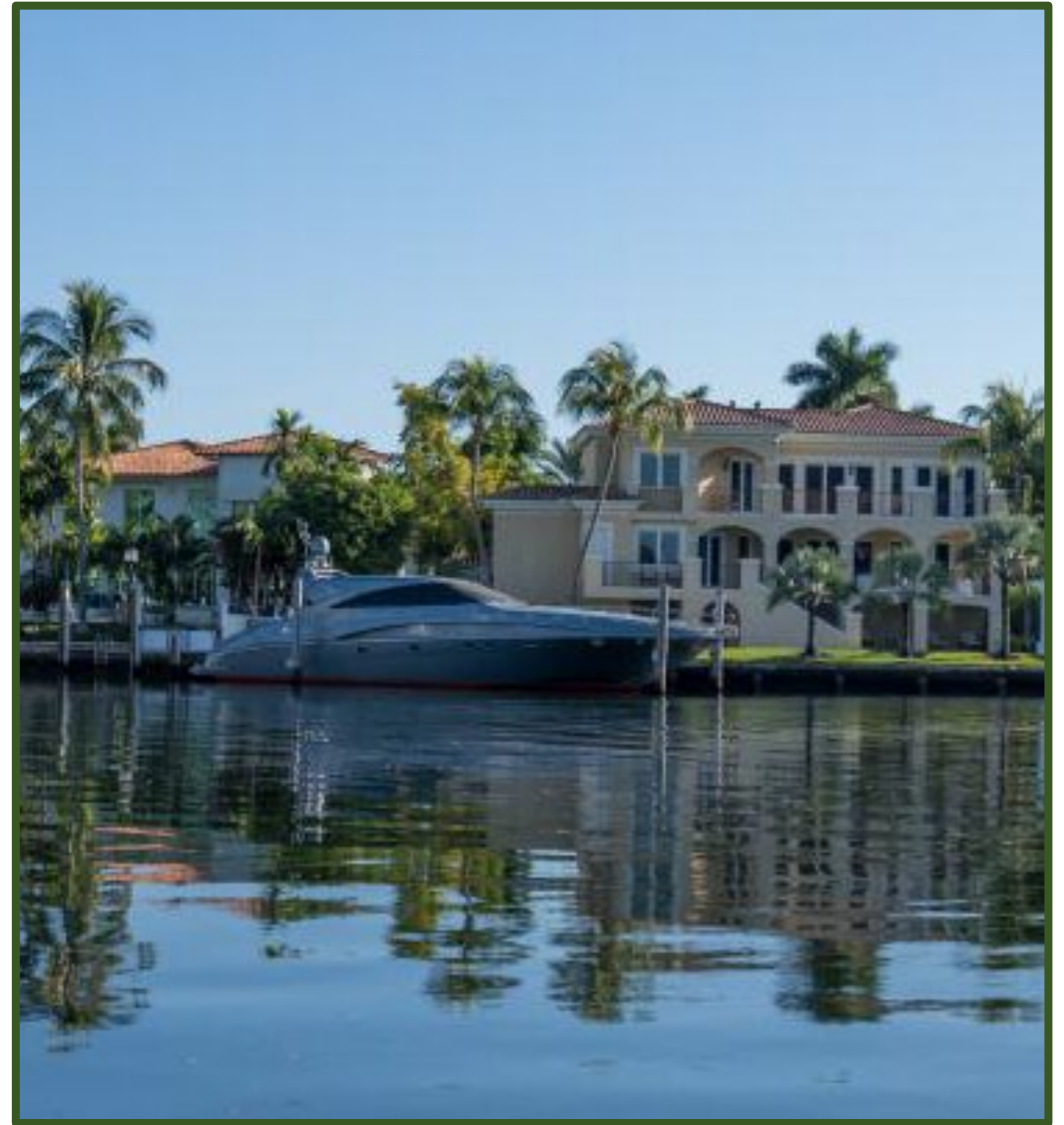
What Are Mangroves and What Are The Associated Benefits?

- Tropical plants adapted to loose, wet soils, salt water, and periodic inundation by tides.
- Three native species are classified as mangroves in Florida: red mangrove (*Rhizophora mangle*), Black mangrove (*Avicennia germinans*) and White mangrove (*Laguncularia racemosa*)



Mangroves Benefits/ Biology

- Stabilize the coastline
- Protect water quality
- Reduce coastal flooding
- Provide habitat for fish
- Protect wildlife species
- Protect young fish from predators
- Serve as nesting area
- Contribute \$7.6 billion annually to the economy and create 109,000 jobs in Florida.



Regulations

Mangroves are regulated and protected by Florida Statute, “Mangrove Trimming and Preservation Act” (1996)

- Significant restrictions on the alteration and trimming of mangroves.
- Trimming of mangroves must be done by a certified Professional Mangrove Trimmer except for some of the exempt practices.
- Miami-Dade County has been delegated authority by the Florida Department of Environmental Protection for the regulation of mangroves under the MTPA.
- Many property owners trim mangroves along their shorelines to obtain or enhance their view of the water. Unfortunately, if not done properly, trimming can harm or kill the mangroves. If not permitted and done properly, property owners can face high fines and other corrective action may be required (e.g. onsite mitigation).

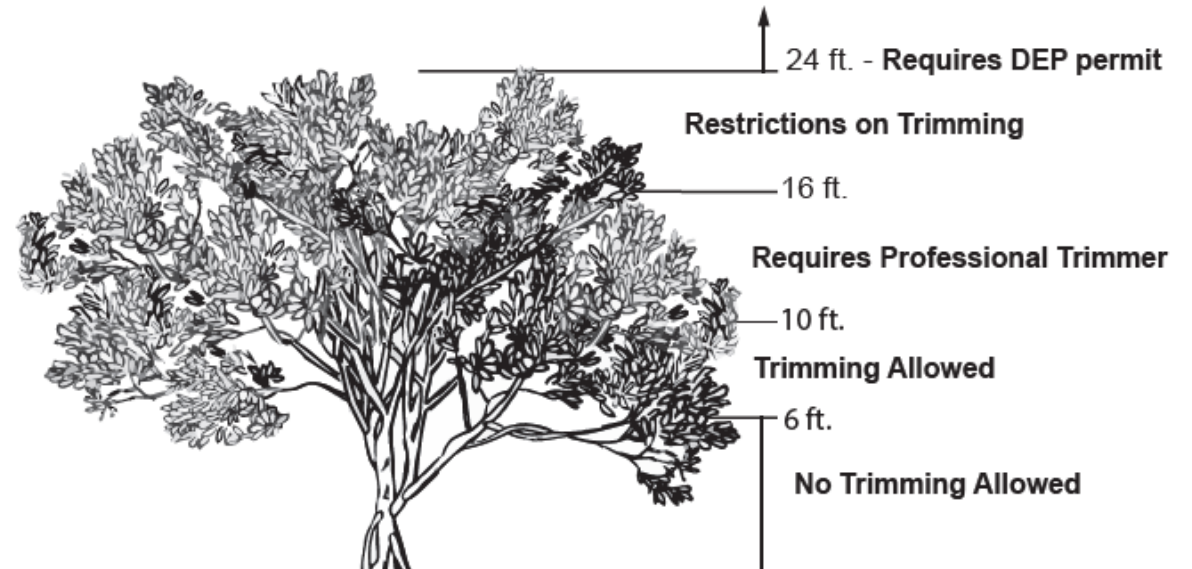


Permits & Exemptions

Most mangrove trimming in Miami-Dade County requires at least a Class I permit authorized by the Department of Environmental Resources Management (DERM).

- All mangrove trimmer requires notification to DERM.
- DERM typically requires permitting based on the site conditions, mangrove conditions, site location, and mangrove size.
- Mangroves that are defined as part of a “Coastal Band Community” must be permitted and authorized by MDC Board regardless of their size and condition.

Allowable Trimming



Typical Trimming Styles



Undercut Mangroves



Windowed Red Mangroves



Hedged-trimmed Mangroves

Treesources Permit Process Overview



Discovery

1. Client Kickoff (discussion of project goals and outlining process)
2. Historical Record Review
3. Potential consultation with DERM
4. Scheduling Data Collection

On-Site Assessment

1. Data collection
2. Client check-in

Draft Permit Application

1. Draft permit application
2. Feedback and Approval
3. Submit to DERM
4. Hold on-site meeting with DERM
5. Potential application revisions.

Delivery

1. Class 1 Permit, if authorized by DERM
2. Client check-in
3. Submit proposal for maintenance trimming
4. Implement mangrove trimming upon proposal approval and scheduling.

Recommendations

- Residents can be referred to preferred vendors with experience in permitting and mangrove management.
- Always use a Professional Mangrove Trimmer (PMT).
- Inform residents of the benefits of mangroves, as well as the options for management.
- Inform residents of the consequences of taking no action to manage their mangroves (i.e. overgrown mangroves and potentially reduced allotments for trimming).
- Inform residents of the consequences of incorrect trimming practices
- Seek potential funding for living shorelines where possible. Note: a living shoreline may be exempt from permitting with FDEP and USACE.





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Thank You

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