



Memorandum

Memorandum No: 23-054

Date: April 3, 2023

To: Honorable Mayor, Vice Mayor, and Commissioners

From: Greg Chavarria, City Manager Greg Chavarria (Apr 5, 2023 08:55 EDT)

Re: River Oaks Stormwater Project

Overview:

The River Oaks Stormwater Improvement Project is a \$25M neighborhood-wide stormwater infrastructure project that aims to reduce flooding for 40+ acres within the River Oaks neighborhood. The contractor, Ric-Man Construction Florida Inc. (Ric-Man) started in January 2022, with work expected to last approximately 30 months, resulting in a substantial completion date of May 2024. The project has advanced and is approximately 80% complete and almost one year ahead of schedule. The estimated date of substantial completion is now July 2023.

On February 24, 2023, the contractor received a Notification of Potential Enforcement Action (NOPEA) from the Broward County Environmental Permitting Division for excessive turbidity associated with dewatering discharges into the Coconut Drive drainage canal. On March 21, 2023, the contractor and the City received a NOPEA for excessive turbidity associated with unauthorized discharges into the River Oaks Wetland Preserve. On both occasions, staff took prompt action and followed up with a process to address each situation. This memorandum provides an overview of actions that led up to the two notifications and steps the City has taken to restore compliance with all environmental requirements.

Background:

The River Oaks Stormwater project is designed to work in conjunction with two other projects: Edgewood Stormwater Improvements (\$15 million) and River Oaks Pumpstations (\$11 million), both currently under construction. Stormwater runoff from both the Edgewood and River Oaks neighborhoods will be pumped to the South Fork of the New River via two pumpstations located within the River Oaks Preserve area.

As part of permitting for the River Oaks project, Ric-Man Construction obtained a dewatering permit (6-08219-W) which allows dewatering into the Coconut Drive drainage canal (one of several locations) and into the "City of Fort Lauderdale drainage system that ultimately drains to the South Fork of the New River". The dewatering discharge consists of ground water being pumped out of excavation pits when a large diameter pipe is being installed. This discharge is generally clean ground water but may have turbidity due to suspended siltation from the soils themselves.

The two main dewatering locations, utilized during construction, are the Coconut Drive drainage canal and the wetland pond located within River Oaks Preserve (part of the City of Fort Lauderdale drainage system as stipulated in the permit conditions). When all projects are complete, the River Oaks Preserve wetland pond will serve as the discharge point for one of the newly constructed pump stations serving the neighborhood and is an integral part of the City's new drainage system.

Coconut Drive Drainage Canal NOPEA:

The Coconut Drive drainage canal, located north of SW 20th Street, is approximately 1,000 feet long and heavily silted with an average depth of 6 inches during the dry season and up to 1.5 feet during wetter periods. The drainage canal is partially located within City Right-of-Way and partially in the adjacent marina property, with the City holding easement rights for drainage and conveyance.

To support construction, Ric-Man set a dewatering operation in the Coconut Drive drainage canal, as authorized by permit 06-8219-W. The discharge disrupted the canal bottom, increasing turbidity in the water body above allowable limits, prompting Broward County to issue the February 24, 2023, NOPEA (attached). In response, the City convened a meeting on February 28th, 2023 with Ric-Man, City consultants, and Broward County enforcement staff to discuss turbidity concerns and methods to reduce turbidity in the canal. Some of the methodologies explored included construction of a temporary dry retention as catchment area, baffle boxes, and gravel to dissipate the discharge energy and minimize canal bottom disturbance.

Following the February 28, 2023, meeting, Ric-Man implemented several measures to reduce turbidity, including adding washed #57 rock (the same type used in exfiltration trenches) to the canal as a way to filter and dissipate the energy of the dewatering discharge. Some residents reported this as an illegal dumping of waste construction materials; however, the rock was clean material, included as a line item in the construction contract, that has been used successfully in the past as a Best Management Practice (BMP) for this purpose. The described method was only intended to be a temporary measure to improve reduction of turbidity in the canal and was to be removed when the canal was restored as part of the project. Consequently, Broward County requested that the rock be removed from the canal, as it was not authorized within the project permits and the rock was removed by the contractor on March 17, 2023.

While Permit 06-8219-W allows dewatering into the Coconut Drive drainage canal, on March 16, 2023, Broward County directed that all dewatering activities stop to address impacts on the River Oaks Preserve. At this time, all dewatering into the Coconut Drive drainage canal have ceased and Ric-Man, has submitted additional project documentation, as requested by the County. Once conditions in the NOPEA are met, and clearance is given by the County, dewatering activities may resume.

The approved engineering permits for River Oaks Stormwater Improvements (SWM2018-081-5) includes replacing existing dual 42" culverts that traverse SW 20th Street within the Coconut drainage canal with larger capacity concrete box culverts and reshaping the bank/bottom in each direction. The existing culverts are 80% to 90% silted-in and cannot provide the increased water conveyance required for the system to operate. These improvements are fully permitted

and approved within the \$50M combined investment for the River Oaks Project/Edgewood Project/River Oaks Pump stations (see attached approved plan sheet <u>PDF CU-ST 18A</u>). During installation, this section of the canal will be dammed up with sheet piles/earthen dams, culverts replaced, and the banks reshaped and restored per the plan. The culvert installation and accompanying site work will be in full compliance with all regulatory guidelines and environmental regulations.

River Oaks Preserve NOPEA:

The River Oaks Wetland Preserve comprises approximately nine acres of constructed wetland ponds, uplands and stormwater infrastructure. The preserve was completed by the City of Fort Lauderdale in 2021 and will house two stormwater pumpstations needed to drain the River Oaks and Edgewood neighborhoods. The larger of the two pumpstations will be housed within the preserve area to attenuate stormwater runoff, discharging it via a dissipator in the South Fork of the New River that bypasses the wetland area entirely. The smaller pumpstation will attenuate a portion of the stormwater runoff from the River Oaks neighborhood (approximately 40 acres), discharging it into the onsite wetland. Once in the wetland, the runoff will be polished using natural vegetation and biota as an additional form of water quality treatment before discharging to the South Fork of the New River. All plans and permits for construction of the pumpstations have been approved and construction is expected to commence in May 2023, with construction expected to take approximately 18 months to complete.

Ric-Man construction was using the onsite wetland as a discharge point for the dewatering runoff from pipeline installation. The contractor believed this dewatering was authorized based on permit (06-8219-W) condition stating, "City of Fort Lauderdale drainage system that ultimately drains to the South Fork of the New River". Similar to the Coconut Drive drainage canal, discharges caused excessive turbidity and impacts in the wetland area with expanding siltation plumes, prompting Broward County to meet with City representatives on March 16, 2023, and issue a NOPEA on March 21, 2023. The NOPEA identifies violations of both Surface Water Management Licenses and Environmental Resources Permits, as the dewatering permit did not authorize discharging of dewatering into the preserve. Broward County directed specific corrective actions necessary to bring the project into compliance. City staff has directed both the contractor, Ric-Man, and our consultants to take all steps necessary to comply, including the following:

- All dewatering activities have ceased, and a revised dewatering plan will be developed to prevent excessive turbidity before any future dewatering is authorized.
- There will be no further discharges into the wetland preserve and the City will develop and implement a monitoring and sampling plan and wetland remediation plan.
- The City will increase Construction Engineering and Inspection (CEI) services to provide greater on-site quality assurance and verify Ric-Man's quality control procedures are adequate during future work.

Conclusion

The River Oaks and Edgewood neighborhoods are two of the most impacted areas in the City during heavy rain events and this new stormwater infrastructure will greatly reduce the flooding in these two historic neighborhoods. Due to the complexity and large scope of this stormwater project, dewatering is a necessary activity for the successful installation of stormwater infrastructure. This activity, however, resulted in negative and unacceptable environmental impacts to the Stormwater Preserve. Water conditions within the wetland have already started to show signs of improvement and with the upcoming rainfall season we expect it will recover drastically over the upcoming months. As this project moves forward, City staff, project consultants, and the contractor will be working closely with Broward County to monitor discharge turbidity to ensure the project remains in full compliance until its completion.

Attachments:

River Oaks Dewatering Permit 06-08219-W Plan sheet from approved set sheet SW 20th Street Culvert Replacement NOPEA Letter Dated February 24, 2023 (Coconut Canal) NOPEA Letter Dated March 21, 2023 (Preserve)

c: Anthony G. Fajardo, Assistant City Manager Susan Grant, Assistant City Manager D'Wayne M. Spence, Interim City Attorney David R. Soloman, City Clerk Patrick Reilly, City Auditor Department Directors CMO Managers

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Commission Memo 23-054 Attachment 1

WATER USE INDIVIDUAL PERMIT

APPLICATION NO: 211202-8 PERMIT NUMBER: 06-08219-W

DATE ISSUED: January 14, 2022 **EXPIRATION DATE:** January 14, 2025

PERMITTEE: RIC-MAN CONSTRUCTION FLORIDA INC

3100 S W 15TH STREET

DEERFIELD BEACH, FL 33442-8188

PROJECT NAME: RIVER OAKS STORMWATER IMPROVEMENTS

PROJECT LOCATION: Broward County, S15,16,21/T50S/R42E

PROJECT DESCRIPTION/AUTHORIZING:

Dewatering of the water table to facilitate the removal and replacement of stormwater infrastructure and relocation of utilities for a City of Fort Lauderdale project in Broward County.

This is to notify you of South Florida Water Management District's (District) agency action concerning Permit Application Number 211202-8, received December 2, 2021. This action is taken pursuant to Chapter 373, Part II, Florida Statutes (F.S.), Rule 40E-1.603 and Chapter 40E-2, Florida Administrative Code (F.A.C.). Based on the information provided, District rules have been adhered to and a Water Use Individual Permit is in effect for this project subject to:

- 1. Not receiving a filed request for an administrative hearing pursuant to Section 120.57, F.S. and Section 120.569, F.S., or a request for a judicial review pursuant to Section 120.68, F.S.
- 2. The attached 32 permit conditions.
- 3. The attached 7 exhibits.

By acceptance and utilization of the water authorized under this permit, the Permittee agrees to hold and save the District and its successors harmless from any and all damages, claims or liabilities that may arise by reason of the construction, maintenance or use of activities authorized by this permit. Should you object to the permit, please refer to the attached "Notice of Rights" that addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Should you wish to object to the proposed agency action or file a petition or request, please provide written objections, petitions, requests and/or waivers to: Office of the District Clerk, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33406, or by email to clerk@sfwmd.gov.

CERTIFICATION OF SERVICE

I HEREBY CERTIFY THAT this written notice has been mailed or electronically transmitted to the Permittee (and the persons listed in the attached distribution list) this 14th day of January, 2022, in accordance with Section 120.60(3), F.S. Notice was also electronically posted on this date through a link on the home page of the District's website (my.sfwmd.gov/ePermitting).

BY

Simon Sunderland, P.G.

Bureau Chief Water Use Bureau Commission Memo 23-054 Attachment 1

SPECIAL PERMIT CONDITIONS

- This permit is issued to:
 Ric- Man Construction Florida Inc
 3100 S W 15th Street
 Deerfield Beach FL 33442-8188
- 2. This permit shall expire on January 14, 2025.
- 3. Use classification is:

Dewatering

Source classification is:

Surface Water from: Water Table aquifer

- Pursuant to Subsection 2.3.2.B.2 of the Applicant's Handbook for Water Use Permit Applications within the South Florida Water Management District, neither maximum monthly nor annual allocation volumes are specified.
- 6. Withdrawal facilities:

Surface Water - Proposed:

- 1 12" x 100 HP X 3000 GPM Rotary Pump
- 7. The Permittee shall submit all data as required by the implementation schedule for each of the permit conditions to: SFWMD at www.sfwmd.gov/ePermitting, or Regulatory Support, 3301 Gun Club Road, West Palm Beach, FL 33406.
- 8. The Permittee must submit the appropriate application form incorporated by reference in Rule 40E-2.101, F.A.C., to the District prior to the permit expiration date in order to continue the use of water.
- 9. The excavation shall be constructed using sound engineering practices. If the excavation or dewatering activities endanger the properties of adjacent owners (through erosion, side wall collapse, flooding, etc.), the Permittee shall cease operations until a method to prevent such occurrences is found and instituted. The Permittee shall be responsible for finding and instituting methods to stop such occurrences.
- 10. The Permittee shall immediately cease dewatering when continued dewatering would create a condition hazardous to the health, safety, and general welfare of the people of the District.

- 11. The Permittee shall be responsible for clearing shoaling, if the Permittee's dewatering operation creates shoaling in adjacent water bodies.
- 12. The Permittee shall conduct dewatering activities in adherence to the following operating plan:

Dewatering will be conducted in accordance with the plans provided in Exhibit 5 (Application 211202-8). Effluent will be routed into the City of Fort Lauderdale drainage system. If exceptional storm conditions occur that exceed the capacity of the dewatering effluent disposal systems, the Permittee is required to cease dewatering operations until adequate storage is available to contain all dewatering discharge.

- 13. The Permittee shall not lower the water table below the following depths:
 - -12 feet NGVD (approximately 17 feet below land surface)
- 14. Off-site discharge may be made via the facilities and conditions that follow:

Dewatering effluent will be routed into the City of Fort Lauderdale drainage system that ultimately drain to the South Fork New River.

- 15. Turbidity measurements of the dewatering water shall be made daily at the point of discharge and a background location (upstream) in the receiving water body. If turbidity levels in the dewatering water exceed 29 NTU above background conditions in the receiving water body, or 0 NTU above background for discharge to Outstanding Florida Waters, the Permittee is required to correct the situation and cease dewatering operations until monitoring demonstrates turbidity standards are met. All turbidity data shall be retained on-site for inspection by District Staff.
- 16. The Permittee shall record daily withdrawals for each dewatering pump. This recorded information shall be maintained on-site and provided to District staff upon request.
- 17. A copy of the permit, its conditions, and dewatering plan is required to be kept on site at all times during dewatering operations by the lead contractor or site manager.
- 18. Within 30 days of completion of the dewatering operation, all dewatering facilities (such as impoundments, conveyances, and recharge trenches) shall be filled and regraded to ground elevation or to otherwise comply with the Environmental Resource Permit.
- 19. The Permittee shall submit to the District an updated "Summary of Groundwater (Well) or Surface Water (Pump or Culvert) Facilities" table ("Section IV Sources of Water", Water Use Permit Application Form 1379) at least 30 days prior to a change in any facility status (e.g. installation, relocation, abandonment) to include all specifications of the well, pump or culvert (e.g. actual total and cased depths, pump manufacturer and model numbers, pump types, intake depths and type of meters, culvert type, length, cross-section, diameter, height, width, invert elevation, control

device, and water use accounting method).

- 20. At least 72 hours prior to initial dewatering, the Permittee shall contact the District to allow for a site visit to verify:
 - a. The location and design of the recharge trenches and on-site retention areas where dewatering water will be retained;
 - b. The location of monitoring facilities; and,
 - c. Other site-specific issues related to the protection of the resource or other existing legal users.

Failure of the Permittee, or the Permittee's representative, to notify the District before dewatering commences will result in enforcement action. If necessary, the District shall conduct a site visit.

Notification of commencement of dewatering can be made by contacting: wucompliance@sfwmd.gov

21. The Permittee shall submit an Annual Dewatering Project Status Report, which shall, at a minimum, include a summary of the project's completed phases, an updated estimated project schedule/timeline for all remaining phases, and any anticipated changes to the original approved dewatering plans.

Reports shall be due to the District on a yearly basis and are due by December 31st of each year.

STANDARD PERMIT CONDITIONS

Commission Memo 23-054 Attachment 1

- 1. All water uses authorized by this permit shall be implemented as conditioned by this permit, including any documents incorporated by reference in a permit condition. The District may revoke this permit, in whole or in part, or take enforcement action, pursuant to Section 373.136 or 373.243, F.S., unless a permit modification has been obtained to address the noncompliance.
 - The Permittee shall immediately notify the District in writing of any previously submitted material information that is later discovered to be inaccurate.
- 2. The Permittee is advised that this permit does not relieve any person from the requirement to obtain all necessary federal, state, local and special district authorizations.
- 3. The Permittee shall notify the District in writing within 30 days of any sale, transfer, or conveyance of ownership or any other loss of permitted legal control of the Project and/or related facilities from which the permitted consumptive use is made. Where Permittee's control of the land subject to the permit was demonstrated through a lease, the Permittee must either submit a new or modified lease showing that it continues to have legal control or documentation showing a transfer in control of the permitted system/project to the new landowner or new lessee. All transfers of ownership are subject to the requirements of Rule 40E-1.6107, F.A.C. Alternatively, the Permittee may surrender the consumptive use permit to the District, thereby relinquishing the right to conduct any activities under the permit.
- 4. Nothing in this permit should be construed to limit the authority of the District to declare a water shortage and issue orders pursuant to Chapter 373, F.S. In the event of a declared water shortage, the Permittee must adhere to the water shortage restrictions, as specified by the District. The Permittee is advised that during a water shortage, reports shall be submitted as required by District rule or order. The Permittee is advised that during a water shortage, pumpage, water levels, and water quality data shall be collected and submitted as required by District orders issued pursuant to Chapter 40E-21, F.A.C.
- 5. This permit does not convey to the Permittee any property rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.
- 6. With advance notice to the Permittee, District staff with proper identification shall have permission to enter, inspect, observe, collect samples, and take measurements of permitted facilities to determine compliance with the permit conditions and permitted plans and specifications. The Permittee shall either accompany District staff onto the property or make provision for access onto the property.
- 7. A. The Permittee may seek modification of any term of an unexpired permit. The Permittee is advised that Section 373.239, F.S., and Rule 40E-2.331, F.A.C., are applicable to permit modifications.
 - B. The Permittee shall notify the District in writing 30 days prior to any changes to the project that

could potentially alter the reasonable demand reflected in the permitted allocation. Such changes include, but are not limited to, change in irrigated acreage, crop type, irrigation system, large users agreements, or water treatment method. Permittee will be required to apply for a modification of the permit for any changes in permitted allocation.

- 8. If any condition of the permit is violated, the permit shall be subject to review and modification, enforcement action, or revocation pursuant to Chapter 373, F.S.
- 9. The Permittee shall mitigate interference with existing legal uses that was caused in whole or in part by the Permittee's withdrawals, consistent with the approved mitigation plan. As necessary to offset the interference, mitigation will include pumpage reduction, replacement of the impacted individual's equipment, relocation of wells, change in withdrawal source, or other means.
 - Interference to an existing legal use is defined as an impact that occurs under hydrologic conditions equal to or less severe than a 1-in-10 year drought event that results in the:
 - A. Inability to withdraw water consistent with provisions of the permit, such as when remedial structural or operational actions not materially authorized by existing permits must be taken to address the interference; or
 - B. Change in the quality of water pursuant to primary State Drinking Water Standards to the extent that the water can no longer be used for its authorized purpose, or such change is imminent.
- 10. The Permittee shall mitigate harm to the natural resources caused by the Permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the Permittee to modify withdrawal rates or mitigate the harm. Harm, as determined through reference to the conditions for permit issuance includes:
 - A. Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface.
 - B. Reduction in water levels that harm the hydroperiod of wetlands,
 - C. Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,
 - D. Harmful movement of contaminants in violation of state water quality standards, or
 - E. Harm to the natural system including damage to habitat for rare or endangered species.
- 11. The Permittee shall mitigate harm to existing off-site land uses caused by the Permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the Permittee to modify withdrawal rates or mitigate the harm. Harm as determined through reference to the conditions for permit issuance, includes:

- A. Significant reduction in water levels on the property to the extent that the designed function of the water body and related surface water management improvements are damaged, not including aesthetic values. The designed function of a water body is identified in the original permit or other governmental authorization issued for the construction of the water body. In cases where a permit was not required, the designed function shall be determined based on the purpose for the original construction of the water body (e.g. fill for construction, mining, drainage canal, etc.)
- B. Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or,
- C. Land collapse or subsidence caused by reduction in water levels associated with consumptive use.

NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

 Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

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- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to
 the District's security desk does not constitute filing. It will be necessary to request that the District's
 security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will
 receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF AN ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

- 1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
- 2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
- 3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
- 4. A statement of when and how the petitioner received notice of the District's decision.
- 5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
- 6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
- 7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
- 8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
- 9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.

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WATER USE STAFF REPORT

Application Number: 211202-8

Permit Number: 06-08219-W

Project Name: RIVER OAKS STORMWATER IMPROVEMENTS

Water Use Permit Status: PROPOSED

Location: BROWARD COUNTY. S15,16,21/T50S/R42E

Applicant's Name and RIC- MAN CONSTRUCTION FLORIDA INC

Address: 3100 S W 15TH STREET

DEERFIELD BEACH, FL 33442-8188

Water Use Classification: Dewatering

Sources:

Surface Water from: Water Table aguifer

Proposed Withdrawal Facilities - Surface Water

Source: Water Table aquifer

1 - 12" X 100 HP X 3000 GPM Rotary Pump

Rated Capacity Source	Status Code	<u>GPM</u>	<u>MGM</u>	<u>MGY</u>
Water Table aquifer	Р	3,000	131.3	1,577
Totals:		3,000	131.3	1,577

PURPOSE

The purpose of this application is to obtain a water use permit for dewatering to allow for the removal and replacement of stormwater infrastructure and utility relocation for the River Oaks neighborhood. Withdrawals are from the water table aquifer (WTA).

PROJECT DESCRIPTION

River Oaks Stormwater Improvements (Project) is a City of Fort Lauderdale project located between Davie Road, SW 9th Avenue, State Road 84 and Interstate 95, in Broward County, Florida, as depicted in Exhibits 1 through 3. Dewatering is necessary to facilitate removal and replacement of stormwater infrastructure and utility relocation. Withdrawals are from the WTA via one proposed withdrawal facility as described in Exhibit 4.

Dewatering Operations:

Active dewatering will be completed in several phases, over a three-year period. The dewatering plan, profile, and calculations are provided in Exhibit 5. Additional plan, profile, and calculations are on file under the Application No: 211202-8. Dewatering is

PROJECT DESCRIPTION (CONTINUED)

to be accomplished via the use of rotary pump with wellpoint system. The dewatering effluent will be routed into the City of Fort Lauderdale drainage system. These stormwater systems discharge to local drainage canals with eventual discharge to the South Fork New River. The maximum depth of the dewatering is approximately -12 feet National Geodetic Vertical Datum (NGVD), which is approximately 17 feet below the average land surface elevation of 5 feet NGVD. The contractor will implement a turbidity monitoring plan, as depicted in Page 2 and Page 5 of Exhibit 5. If exceptional storm conditions occur that exceed the capacity of the dewatering effluent disposal systems, the Permittee is required to cease dewatering operations until adequate storage is available to contain all dewatering discharge.

PROJECTED WATER USE DEMANDS

Maximum month and annual allocations are not specified for dewatering permits [Subsection 2.3.2.B.2 of the Applicant's Handbook (AH) for Water Use Permit Applications within the South Florida Water Management District (District)], however, the Applicant provided estimated dewatering volumes of 0.36 million gallon maximum per day and 83.75 million gallons for the total dewatering Project as shown in pages 8 through 10 of Exhibit 5.

IMPACT EVALUATION

The Applicant estimated the radius of influence due to the proposed dewatering using the Sichardt empirical equation. The Sichardt empirical equation calculates the outer distance of the radius of influence for steady state conditions. The modeling data are consistent with the criteria for basic analytic and numerical impact assessments set forth in Subsection 3.1.2 of the AH. The maximum radius of influence was calculated to be 208.9 feet. The calculations are provided in Exhibit 5, Page 11.

WATER RESOURCE IMPACT EVALUATION

Water Resource Availability

Water Table aquifer

The average land surface land surface elevation at the Project site is approximately 5.0 feet NGVD. The WTA is considered to be the upper portion of the surficial aquifer system (SAS). The base of the SAS in the vicinity of the Project is approximately -220 feet NGVD based on District Technical Publication 92-05. The maximum depth of dewatering will be to an elevation of -12 feet NGVD leaving a saturated thickness of approximately 208 feet. Therefore, the potential for harm to occur to water resource availability of the WTA as a result of the dewatering operations is considered minimal.

Existing Legal Users

Water Table aquifer

There are three existing legal users of the SAS located adjacent to the Project boundary. They are Blu' On Marina Boulevard (Water Use Permit 06-06643-W), Broward Area Office (06-03545-W), and Rio A C Well (06-05305-W). Withdrawal facilities for these projects are located outside of the calculated radius of influence of the dewatering operations. Therefore, the potential for harm to occur to existing legal

WATER RESOURCE IMPACT EVALUATION (CONTINUED)

users as a result of the dewatering operations is considered minimal.

Existing Off Site Land Uses

Water Table aquifer

Land uses that are dependent upon water being on or near land surface and that existed prior to this application are protected from harm. The surrounding land use is bordered industrial, commercial, and residential urban areas. Only negligible off-site drawdown of the WTA is expected to occur as determined by the radius of influence calculations and the temporary nature of the dewatering activities for each phase of the Project. Therefore, pursuant to Subsection 3.6.2 of the AH, the use is not expected to result in significant reduction in water levels on the property of an existing offsite land use to the extent that: the designed function of a water body and related surface water management improvements are damaged (not including aesthetic values); or result in damage to agriculture, including damage resulting from reduction in soil moisture resulting from water use, or land collapse or subsidence caused by reduction in water levels associated with water use.

Migration of Saline Water

Water Table aquifer

The nearest source of surface saline water is the Intracoastal Waterway located 2.2 miles to the east of the Project, beyond the calculated dewatering radius of influence. The underlying WTA contains fresh water in this area. The maximum depth of dewatering is 17 feet below land surface. Significant drawdown of the WTA is not expected to occur due to the temporary nature of the dewatering activities for each phase of the Project. Therefore, the potential for lateral intrusion of surface saline water or upconing of saline groundwater as a result of the dewatering operations is considered minimal.

Wetland Environments

Water Table aquifer

There is a wetland preserve, which was authorized under Environmental Resource Permit No. 06-03146-P, within the Project site; however, the estimated radius of influence will not extend to the wetland area. Dewatering effluent will be discharged to nearby canals connecting to the South Fork New River. Turbidity curtains will be placed at the outfalls into the canals, and a turbidity monitoring plan will be required during the dewatering activities. Based upon application of the narrative standard that the hydrologic alteration of the water use shall not adversely impact the values of wetland functions so as to cause harm to the abundance, diversity and habitat of fish, wildlife and listed species, the potential for harm to occur to the off-site wetlands as a result of the dewatering operations is considered minimal.

Sources of Pollution

Water Table aguifer

There are several potential contaminated sites located in the vicinity of the Project.

WATER RESOURCE IMPACT EVALUATION (CONTINUED)

The Applicant has obtained authorization from the Broward County Environmental Engineering and Permitting Division issued an approval for Construction Dewatering Activities (BCDP ID 21165042 on file with the District) to evaluate the impact of construction dewatering on pollution migration. As noted in the Broward County Dewatering ID 21165042, if discovery of undocumented contamination is recorded or observed, dewatering activities shall cease, and Broward County and the District shall be notified immediately. Therefore, the potential for the induced movement of contaminants, if present, from known sources of pollution to occur as a result of the dewatering operations is considered minimal.

ADDITIONAL INFORMATION

Regional Issues

Regional Water Availability

The calculated radius of influence does not extend to any regional water body. Therefore, pursuant to Subsection 3.2.1 of the AH, the dewatering activities will not cause a net increase in the volume or cause a change in timing on a monthly basis of surface and groundwater withdrawn from the Everglades Waterbodies.

Project Site Issues

Legal Control and Land Use

The Permittee provided documentation demonstrating legal control of the Project site. The water withdrawals requested for dewatering for stormwater improvement is compatible with the zoning at this site (Subsection 2.1 of the AH).

Permit Duration

The Applicant provided a construction dewatering schedule that demonstrates a permit duration of three years will be required. Therefore, the water use permit duration shall be three years.

ENVIRONMENTAL RESOURCE PERMIT STATUS:

Not Applicable

RIGHT OF WAY PERMIT STATUS:

Not Applicable

RECOMMENDATIONS

Project Name: RIVER OAKS STORMWATER IMPROVEMENTS

Application Number: 211202-8

Permit Number: 06-08219-W

RECOMMENDATION

Dewatering of the water table to facilitate the removal and replacement of stormwater infrastructure and relocation of utilities for a City of Fort Lauderdale project in Broward County.

STAFF EVALUATION

REVIEWER: SUPERVISOR:

Morgan Reins, NRM Barbara J. Conmy, NRM

Priyantha Liyanage, WU Nicholas M. Vitani, P.G., WU

SPECIAL PERMIT CONDITIONS

- This permit is issued to:
 Ric- Man Construction Florida Inc
 3100 S W 15th Street
 Deerfield Beach FL 33442-8188
- 2. This permit shall expire on January 14, 2025.
- 3. Use classification is:

Dewatering

4. Source classification is:

Surface Water from: Water Table aquifer

- 5. Pursuant to Subsection 2.3.2.B.2 of the Applicant's Handbook for Water Use Permit Applications within the South Florida Water Management District, neither maximum monthly nor annual allocation volumes are specified.
- 6. Withdrawal facilities:

Surface Water - Proposed:

- 1 12" x 100 HP X 3000 GPM Rotary Pump
- 7. The Permittee shall submit all data as required by the implementation schedule for each of the permit conditions to: SFWMD at www.sfwmd.gov/ePermitting, or Regulatory Support, 3301 Gun Club Road, West Palm Beach, FL 33406.
- 8. The Permittee must submit the appropriate application form incorporated by reference in Rule 40E-2.101, F.A.C., to the District prior to the permit expiration date in order to continue the use of water.
- 9. The excavation shall be constructed using sound engineering practices. If the excavation or dewatering activities endanger the properties of adjacent owners (through erosion, side wall collapse, flooding, etc.), the Permittee shall cease operations until a method to prevent such occurrences is found and instituted. The Permittee shall be responsible for finding and instituting methods to stop such occurrences.

SPECIAL PERMIT CONDITIONS

- 10. The Permittee shall immediately cease dewatering when continued dewatering would create a condition hazardous to the health, safety, and general welfare of the people of the District.
- 11. The Permittee shall be responsible for clearing shoaling, if the Permittee's dewatering operation creates shoaling in adjacent water bodies.
- 12. The Permittee shall conduct dewatering activities in adherence to the following operating plan:

Dewatering will be conducted in accordance with the plans provided in Exhibit 5 (Application 211202-8). Effluent will be routed into the City of Fort Lauderdale drainage system. If exceptional storm conditions occur that exceed the capacity of the dewatering effluent disposal systems, the Permittee is required to cease dewatering operations until adequate storage is available to contain all dewatering discharge.

- 13. The Permittee shall not lower the water table below the following depths:
 - -12 feet NGVD (approximately 17 feet below land surface)
- 14. Off-site discharge may be made via the facilities and conditions that follow:

Dewatering effluent will be routed into the City of Fort Lauderdale drainage system that ultimately drain to the South Fork New River.

- 15. Turbidity measurements of the dewatering water shall be made daily at the point of discharge and a background location (upstream) in the receiving water body. If turbidity levels in the dewatering water exceed 29 NTU above background conditions in the receiving water body, or 0 NTU above background for discharge to Outstanding Florida Waters, the Permittee is required to correct the situation and cease dewatering operations until monitoring demonstrates turbidity standards are met. All turbidity data shall be retained on-site for inspection by District Staff.
- 16. The Permittee shall record daily withdrawals for each dewatering pump. This recorded information shall be maintained on-site and provided to District staff upon request.
- 17. A copy of the permit, its conditions, and dewatering plan is required to be kept on site at all times during dewatering operations by the lead contractor or site manager.
- 18. Within 30 days of completion of the dewatering operation, all dewatering facilities (such as impoundments, conveyances, and recharge trenches) shall be filled and regraded to ground elevation or to otherwise comply with the Environmental Resource Permit.

SPECIAL PERMIT CONDITIONS

- 19. The Permittee shall submit to the District an updated "Summary of Groundwater (Well) or Surface Water (Pump or Culvert) Facilities" table ("Section IV Sources of Water", Water Use Permit Application Form 1379) at least 30 days prior to a change in any facility status (e.g. installation, relocation, abandonment) to include all specifications of the well, pump or culvert (e.g. actual total and cased depths, pump manufacturer and model numbers, pump types, intake depths and type of meters, culvert type, length, cross-section, diameter, height, width, invert elevation, control device, and water use accounting method).
- 20. At least 72 hours prior to initial dewatering, the Permittee shall contact the District to allow for a site visit to verify:
 - a. The location and design of the recharge trenches and on-site retention areas where dewatering water will be retained;
 - b. The location of monitoring facilities; and,
 - c. Other site-specific issues related to the protection of the resource or other existing legal users.

Failure of the Permittee, or the Permittee's representative, to notify the District before dewatering commences will result in enforcement action. If necessary, the District shall conduct a site visit.

Notification of commencement of dewatering can be made by contacting: wucompliance@sfwmd.gov

21. The Permittee shall submit an Annual Dewatering Project Status Report, which shall, at a minimum, include a summary of the project's completed phases, an updated estimated project schedule/timeline for all remaining phases, and any anticipated changes to the original approved dewatering plans.

Reports shall be due to the District on a yearly basis and are due by December 31st of each year.

STANDARD PERMIT CONDITIONS

All water uses authorized by this permit shall be implemented as conditioned by this
permit, including any documents incorporated by reference in a permit condition. The
District may revoke this permit, in whole or in part, or take enforcement action, pursuant
to Section 373.136 or 373.243, F.S., unless a permit modification has been obtained to
address the noncompliance.

The Permittee shall immediately notify the District in writing of any previously submitted material information that is later discovered to be inaccurate.

- 2. The Permittee is advised that this permit does not relieve any person from the requirement to obtain all necessary federal, state, local and special district authorizations.
- 3. The Permittee shall notify the District in writing within 30 days of any sale, transfer, or conveyance of ownership or any other loss of permitted legal control of the Project and/or related facilities from which the permitted consumptive use is made. Where Permittee's control of the land subject to the permit was demonstrated through a lease, the Permittee must either submit a new or modified lease showing that it continues to have legal control or documentation showing a transfer in control of the permitted system/project to the new landowner or new lessee. All transfers of ownership are subject to the requirements of Rule 40E-1.6107, F.A.C. Alternatively, the Permittee may surrender the consumptive use permit to the District, thereby relinquishing the right to conduct any activities under the permit.
- 4. Nothing in this permit should be construed to limit the authority of the District to declare a water shortage and issue orders pursuant to Chapter 373, F.S. In the event of a declared water shortage, the Permittee must adhere to the water shortage restrictions, as specified by the District. The Permittee is advised that during a water shortage, reports shall be submitted as required by District rule or order. The Permittee is advised that during a water shortage, pumpage, water levels, and water quality data shall be collected and submitted as required by District orders issued pursuant to Chapter 40E-21, F.A.C.
- 5. This permit does not convey to the Permittee any property rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.
- 6. With advance notice to the Permittee, District staff with proper identification shall have permission to enter, inspect, observe, collect samples, and take measurements of permitted facilities to determine compliance with the permit conditions and permitted plans and specifications. The Permittee shall either accompany District staff onto the property or make provision for access onto the property.

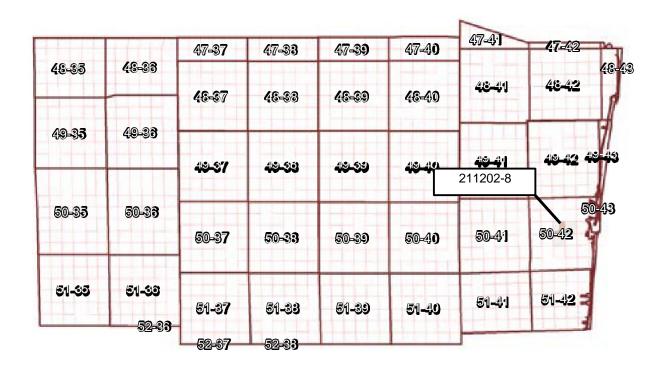
- 7. A. The Permittee may seek modification of any term of an unexpired permit. The Permittee is advised that Section 373.239, F.S., and Rule 40E-2.331, F.A.C., are applicable to permit modifications.
 - B. The Permittee shall notify the District in writing 30 days prior to any changes to the project that could potentially alter the reasonable demand reflected in the permitted allocation. Such changes include, but are not limited to, change in irrigated acreage, crop type, irrigation system, large users agreements, or water treatment method. Permittee will be required to apply for a modification of the permit for any changes in permitted allocation.
- 8. If any condition of the permit is violated, the permit shall be subject to review and modification, enforcement action, or revocation pursuant to Chapter 373, F.S.
- 9. The Permittee shall mitigate interference with existing legal uses that was caused in whole or in part by the Permittee's withdrawals, consistent with the approved mitigation plan. As necessary to offset the interference, mitigation will include pumpage reduction, replacement of the impacted individual's equipment, relocation of wells, change in withdrawal source, or other means.

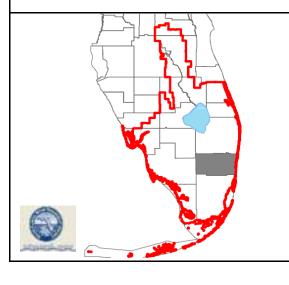
Interference to an existing legal use is defined as an impact that occurs under hydrologic conditions equal to or less severe than a 1-in-10 year drought event that results in the:

- A. Inability to withdraw water consistent with provisions of the permit, such as when remedial structural or operational actions not materially authorized by existing permits must be taken to address the interference; or
- B. Change in the quality of water pursuant to primary State Drinking Water Standards to the extent that the water can no longer be used for its authorized purpose, or such change is imminent.
- 10. The Permittee shall mitigate harm to the natural resources caused by the Permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the Permittee to modify withdrawal rates or mitigate the harm. Harm, as determined through reference to the conditions for permit issuance includes:
 - A. Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface,
 - B. Reduction in water levels that harm the hydroperiod of wetlands,
 - C. Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,

Page 10 of 11

- D. Harmful movement of contaminants in violation of state water quality standards, or
- E. Harm to the natural system including damage to habitat for rare or endangered species.
- 11. The Permittee shall mitigate harm to existing off-site land uses caused by the Permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the Permittee to modify withdrawal rates or mitigate the harm. Harm as determined through reference to the conditions for permit issuance, includes:
 - A. Significant reduction in water levels on the property to the extent that the designed function of the water body and related surface water management improvements are damaged, not including aesthetic values. The designed function of a water body is identified in the original permit or other governmental authorization issued for the construction of the water body. In cases where a permit was not required, the designed function shall be determined based on the purpose for the original construction of the water body (e.g. fill for construction, mining, drainage canal, etc.)
 - B. Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or,
 - C. Land collapse or subsidence caused by reduction in water levels associated with consumptive use.





BROWARD COUNTY, FLORIDA

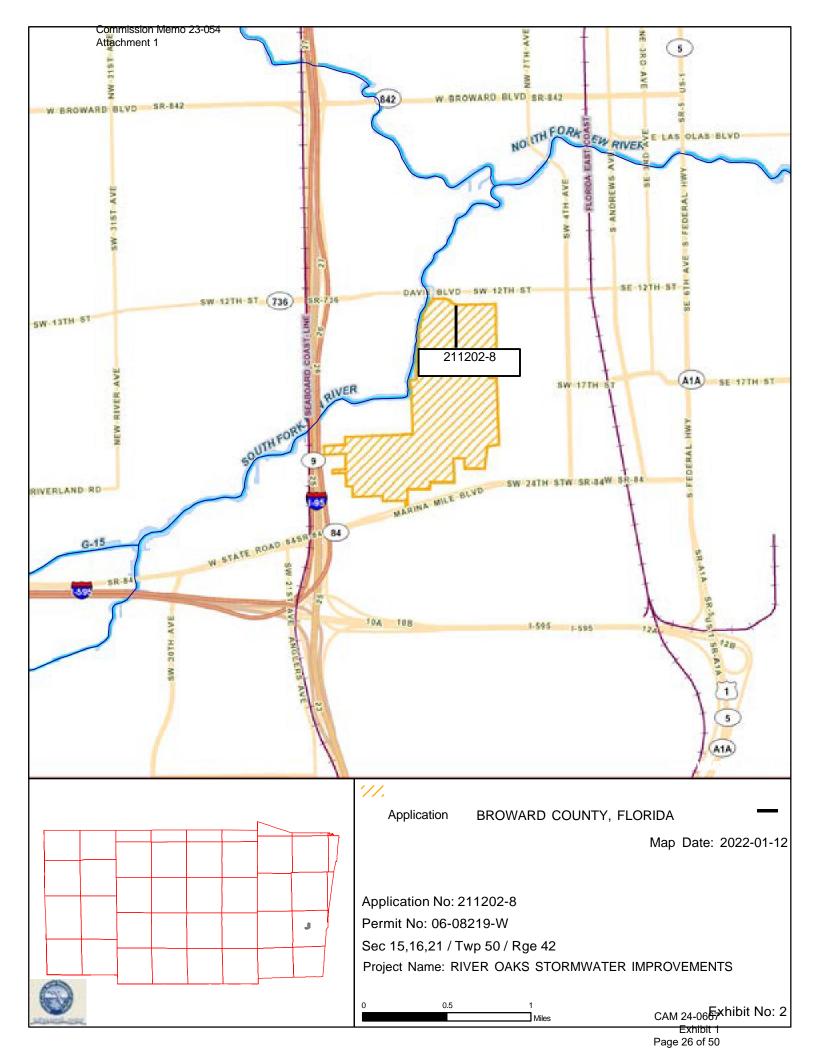
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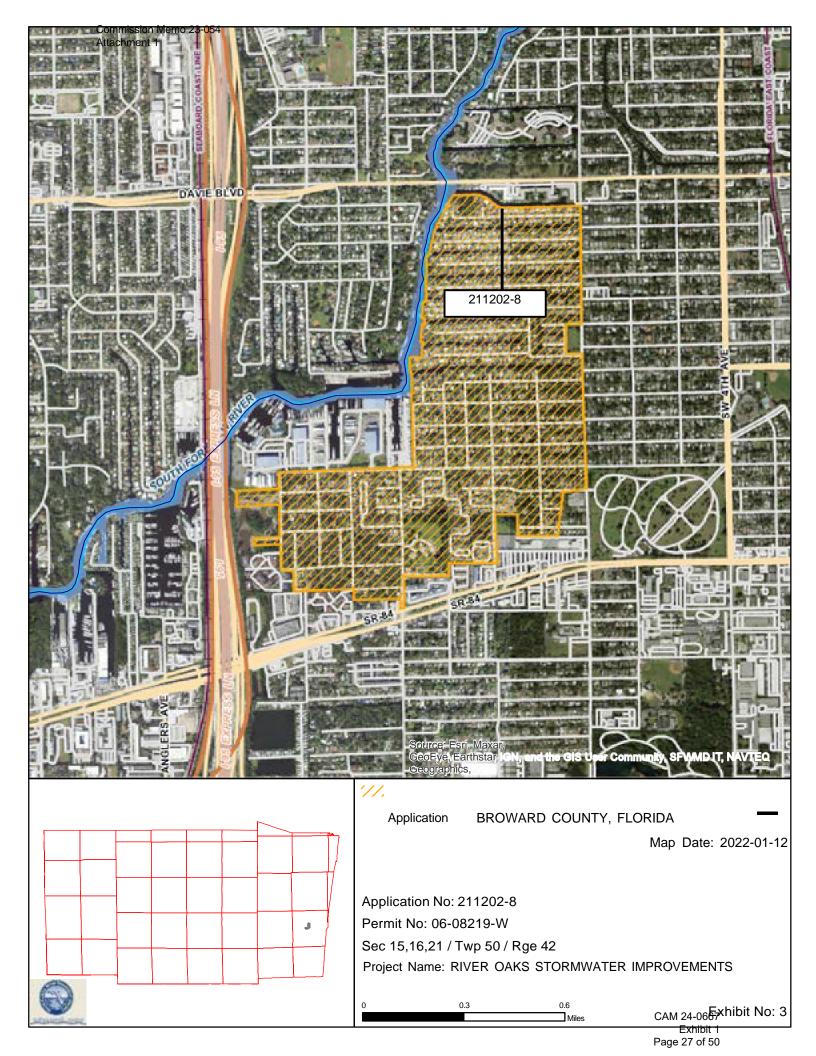
Application No: 211202-8 Permit No: 06-08219-W

Sec 15,16,21 / Twp 50 / Rge 42

Project Name: RIVER OAKS STORMWATER IMPROVEMENTS

0 10 20 Mil CAM 24-0667 hibit No: 1





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TABLE - B Description Of Surface Water Pumps

Application Number: 211202-8

Pump ID 289181

Name PUMP-TEMP Map Designator PUMP-TEMP

Facility Group

Existing/Proposed P

Pump Type Rotary

Diameter(Inches) 12

Pump Capacity(GPM) 3,000 Pump Horse Power 100 Two Way Pump? N

Elevation (ft. NGVD) 12

Planar Location

Source Feet East Feet North

Accounting Method Time Clock

Use Status Primary

Water Use Type Mining /

Dewatering

Surface Water Body Water Table

aquifer



River Oaks Stormwater Improvements – Dewatering Plan

(Dec. 26th, 2021)

Dewatering Configuration

This project involves stormwater infrastructure removal and installation, pump station installation, water main relocation, and pipe lining within the River Oaks neighborhood in Fort Lauderdale. The project area is located between Davie Road, SW 9th Avenue, State Road 84 and Interstate 95. All piping is to be installed via conventional open trench method. Due to high groundwater, dewatering along the trench alignment is expected and planned. The proposed dewatering plan consists of dewatering in 300-foot increments for stormwater piping, for a duration of no longer than 5 days for any one increment of 66-inch and 72-inch piping and no longer than 3 days for any one increment of all smaller diameter piping. This dewatering operation can be described as a "rolling" dewatering operation leading the pipe installation. Once the pipe is installed the trench will be backfilled and the dewatering system (i.e., well points, header pipe, and pump) will be moved to prepare for a subsequent 300-foot segment of pipe installation. In actuality, it is expected that the two complete sets of dewatering equipment will be used in a "leap-frog" fashion such that the removed dewatering equipment is moved ahead of an operational set of equipment such that the pipe installation can continue without interruption. To complete the entire project, we anticipate setting up 103 total rolling 300-foot dewatering systems. The total project dewatering duration is expected to be no longer than 342 days.

Each 300-foot dewatering system set-up will generally include approximately one hundred fifty-two (152) 1 1/2-inch diameter well points spaced at 4 feet. The well points will be placed along both sides of the trench and extended to a depth of at least 3 feet below the bottom of the trench. The pump used will be a 12" rotary lobe pump with a pumping capacity up to 3,000 GPM. Based on analysis of the site-specific hydro-geologic conditions and using the above described well pointing and dewatering configuration, it is expected that each well will discharge flow in the range of 0.9 to 14.9 gallons per minute (gpm) with the larger flows seen during installation of deeper structures. It can be expected that the maximum volume pumped for each segment will range from approximately 259,167 gallons to 1,800,826 gallons. These rates have an equivalent daily volume of 86,389 gallons and 360,165 gallons, respectively. However, as expected with most dewatering systems, there will be an initial drawdown period with peak discharge rates followed by a less intense period while maintaining the dewatering level.

The calculated dewatering rates and volumes for all 103 dewatering zones is presented in Table 1. As listed at the bottom of the table, the average dewatering depth is expected to be 10.9 feet below

land surface, while the average radius of influence is expected to be 122.3 feet. The maximum radius of influence is expected to be 208.9 feet.

Pump Discharge

The dewatering flow will be discharged through the nearby existing drainage outfalls into the secondary canal system connecting to the South Fork New River. In areas where stormwater piping does not currently exist, the Contractor will generally start laying pipe on the downstream end near an outfall and discharge to newly installed stormwater piping while working upstream. Please see dewatering plan map with location of dewatering discharge point and planned monitoring locations. A floating turbidity curtain will be placed during dewatering procedures at the dewatering discharge point. A flow meter will be installed on the pump's discharge line. All dewatering activities will cease during a storm or major rainfall event.

Turbidity Monitoring

Compliance and background turbidity readings will be taken daily to confirm dewatering turbidity does not exceed 29 NTUs above background conditions. Compliance samples will be collected at the discharge location and background samples will be taken at least 100 feet upstream of the discharge point. A log of daily turbidity measurements will be kept on site for the duration of dewatering activities, along with daily measurements of the flow rate in gallons per day. The use of a well point system typically reduces the effluent turbidity to less than 29 NTUs. However, should dewatering turbidity exceed background conditions by more than 29 NTUs, discharge will cease, and the Permittee will be required to correct the situation.

Projected Pumpage Rates Summary

Based on the results of the engineering evaluation presented in herein, we anticipate the following water volumes and pumping rates (see Table 1):

- Maximum Requested Allocation = 83,748,085 gallons
- Maximum Theoretical daily pumpage = 360,165 gallons
- Average estimated daily pumpage (Anticipated Maximum Average) = 238,543 gallons

Provided Attachments

Attachment A: Pump Information

Attachment B: Turbidity Log

Attachment C: Dewatering Plan

Attachment D: Contaminated Sites

Attachment E: Radius of Influence Map



River Oaks Stormwater Improvements – Dewatering Plan

(Dec. 26th, 2021)

Dewatering Configuration

This project involves stormwater infrastructure removal and installation, pump station installation, water main relocation, and pipe lining within the River Oaks neighborhood in Fort Lauderdale. The project area is located between Davie Road, SW 9th Avenue, State Road 84 and Interstate 95. All piping is to be installed via conventional open trench method. Due to high groundwater, dewatering along the trench alignment is expected and planned. The proposed dewatering plan consists of dewatering in 300-foot increments for stormwater piping, for a duration of no longer than 5 days for any one increment of 66-inch and 72-inch piping and no longer than 3 days for any one increment of all smaller diameter piping. This dewatering operation can be described as a "rolling" dewatering operation leading the pipe installation. Once the pipe is installed the trench will be backfilled and the dewatering system (i.e., well points, header pipe, and pump) will be moved to prepare for a subsequent 300-foot segment of pipe installation. In actuality, it is expected that the two complete sets of dewatering equipment will be used in a "leap-frog" fashion such that the removed dewatering equipment is moved ahead of an operational set of equipment such that the pipe installation can continue without interruption. To complete the entire project, we anticipate setting up 103 total rolling 300-foot dewatering systems. The total project dewatering duration is expected to be no longer than 342 days.

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Attachment D: Contaminated Sites

Attachment E: Radius of Influence Map





11486 Corporate Blvd Suite 190 Orlando, FL 32817 407.381.2192 FAX: 937.461.0743

PROJECT DEWATERING PLAN

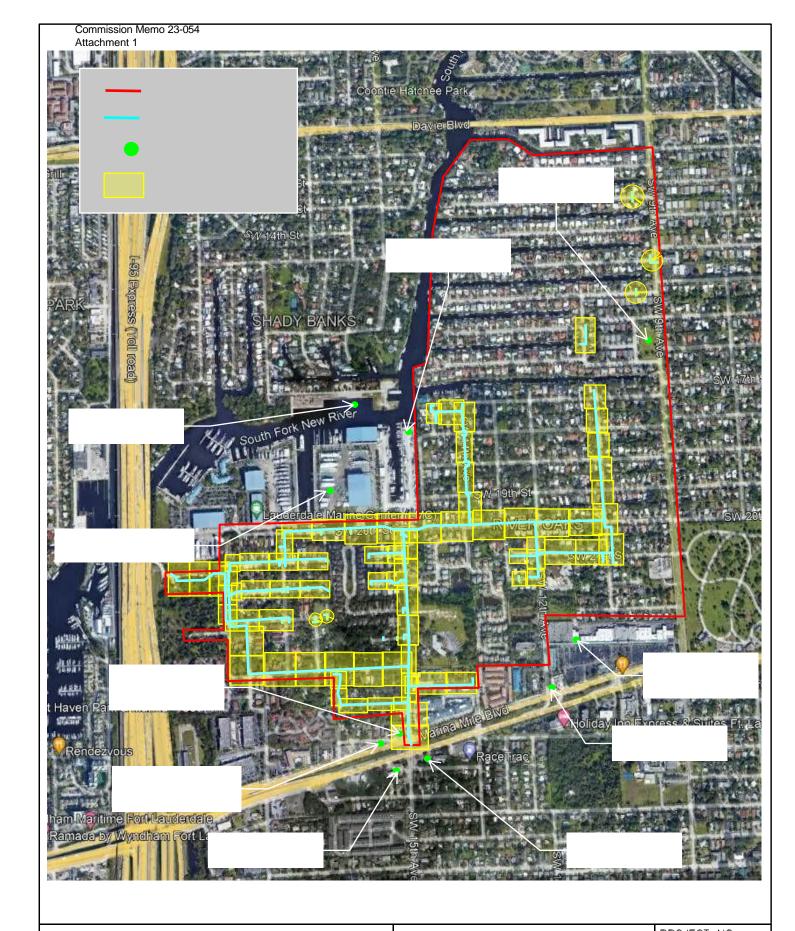
PROJECT NO.

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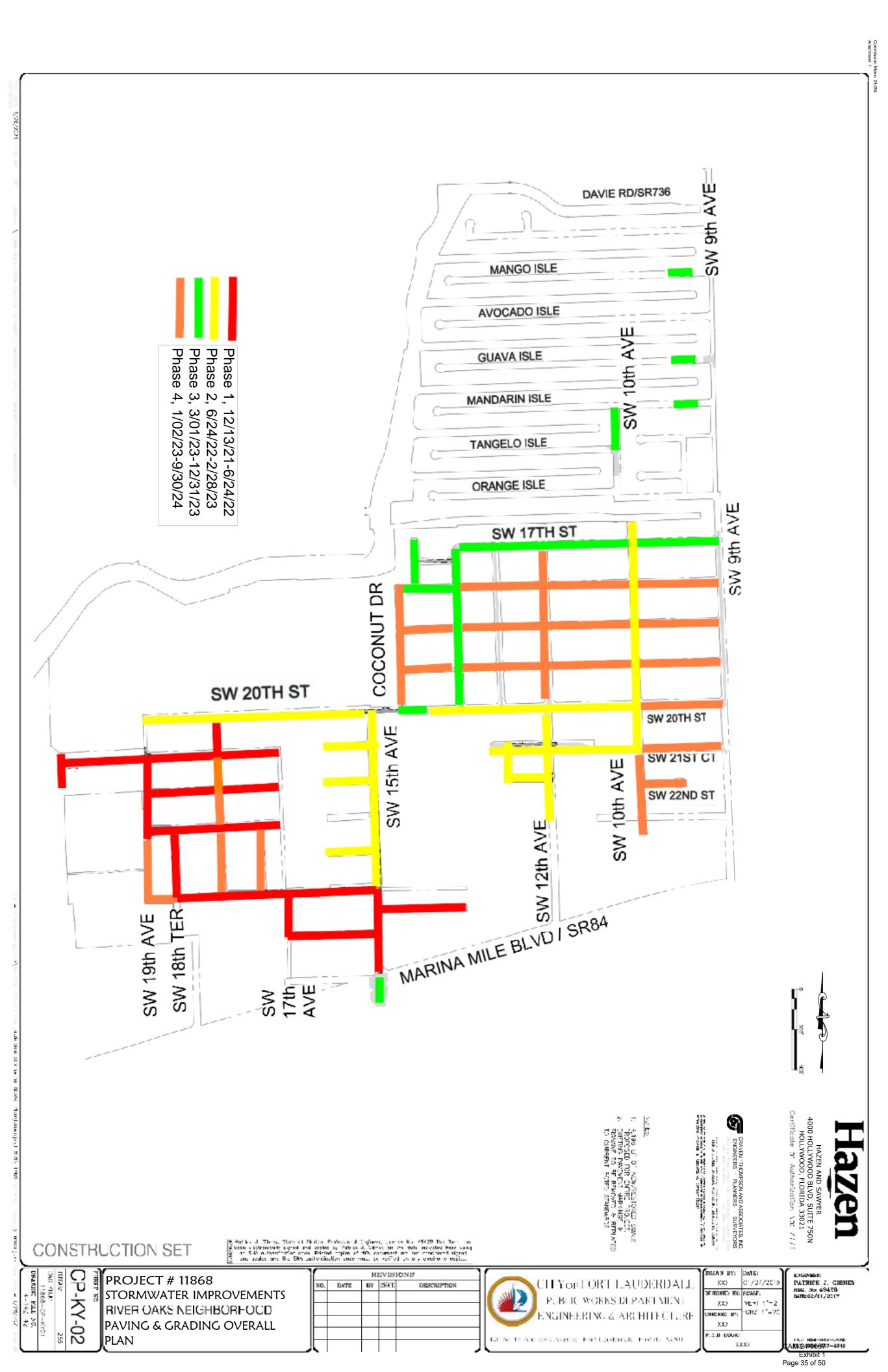


Table 1
River Oaks Stormwater Improvements Project Dewatering
Dewatering Pump Location and Pumpage Summary

Dewatering Pump Location and Pumpage Summary										
Pump Location	From Station Number	To Station Number	Max Wellpoint Depth (ft)	Dewatering Duration (days)	Total Radius of Influence (ft)	Number of Well Points	Total Flow Rate (gpm)	Flow Rate per Well Point (gpm)	Maximum Daily Volume (GPD)	Total Volume (gallons)
1	0+05	1+15	9.5	3	105.4	53	120.9	2.3	174,153	522,459
2	0+05	0+41	10.5	3	105.4	18	95.6	5.3	137,697	413,090
3	0+10	1+90	9.5	3	102.1	92	139.8	1.5	201,372	604,116
4	1+26	1+59	10	3	115.4	19	101.4	5.3	146,029	438,086
5	0+48	92+08	8.5	3	75.1	152	185.2	1.2	266,661	799,983
6	92+08 101+71	101+71	8.5	3	75.1	152	185.2	1.2	266,661	799,983
7		104+37	10.5	3	108.0	152	171.1	1.1	246,343 276,604	739,029 829,813
<u>8</u> 9	104+37 107+24	107+24 110+24	11 11	3	141.0 141.0	152 152	192.1 192.1	1.3 1.3	276,604	829,813
10	110+24	110+24	11	3	141.0	152	208.6	1.3	300,345	901,036
11	109+92	-	12.5	3	149.8	14	133.2	9.5	191,751	575,252
12	110+39	- 446.24	15	3	190.8	14	154.9	11.1	223,042	669,127
13	113+24	116+24	11	3	132.8	152	188.5	1.2	271,482	814,446
14	116+24	119+24	11	3	132.8	152	188.5	1.2	271,482	814,446
15	119+24	122+24	11.5	3	141.0	152	192.1	1.3	276,604	829,813
16	122+24	125+24	11	3	132.8	152	188.5	1.2	271,482	814,446
17	125+24	127+80	11	3	130.7	130	178.0	1.4	256,273	768,819
18	0+05	0+76	8	3	76.7	38	95.5	2.5	137,554	412,663
19	2+05	3+45	9.5	3	108.1	86	140.1	1.6	201,681	605,042
20	0+09	0+37	7.5	3	73.6	16	74.9	4.7	107,914	323,743
21	1+68	1600+05	8.5	3	89.5	14	81.8	5.8	117,739	353,216
22	1200+05	1202+90	9.5	3	108.0	152	171.1	1.1	246,343	739,029
23	1202+90	1205+08	8	3	83.4	152	174.1	1.1	250,683	752,048
24	1205+08	1207+88	8	3	91.6	152	170.2	1.1	245,064	735,192
25	1207+88	1210+74	8	3	91.6	152	170.2	1.1	245,064	735,192
26	1210+74	1213+32	9	3	104.5	131	160.1	1.2	230,494	691,483
27	1600+05	1603+05	8	3	91.6	152	170.2	1.1	245,064	735,192
28	1603+05	1605+40	10	3	121.5	120	161.9	1.3	233,178	699,535
29	0+31	-	15	3	189.3	13	139.7	10.7	201,229	603,688
30	1700+10	1702+14	9.5	3	124.4	152	176.7	1.2	254,449	763,348
31	1702+14	1705+03	9.5	3	124.4	152	176.7	1.2	254,449	763,348
32	1705+03	1708+03	9	3	116.2	152	173.5	1.1	249,901	749,703
33	1708+03	1711+03	9.5	3	116.2	152	173.5	1.1	249,901	749,703
34	1711+03	1714+03	9	3	108.0	152	171.1	1.1	246,343	739,029
35	1714+03	1715+79	9.5	3	102.0	90	139.0	1.5	200,176	600,528
36	0+31	3+31	14	5	183.2	53	179.7	3.4	258,764	1,293,818
37	0+84	-	14	3	174.1	10	137.7	13.8	198,293	594,878
38	3+31	4+96	13	5	163.7	85	188.7	2.2	271,769	1,358,845
39	299+95	302+55	10	3	91.6	152	170.2	1.1	245,064	735,192
40	302+55	305+30	10	3	90.5	140	162.6	1.2	234,146	702,438
41	305+30	307+98	9.5	3	83.4	152	174.1	1.1	250,683	752,048
42	307+98	310+38	9.5	3	80.6	122	152.8	1.3	219,983	659,950
43	400+07	402+40	10	3	91.6	152	170.2	1.1	245,064	735,192
44	402+40	405+40	10	3	91.6	152	170.2	1.1	245,064	735,192
45	405+40	407+65	10.5	3	91.6	152	170.2	1.1	245,064	735,192
46	407+65	410+35	10	3	83.5	154	175.2	1.1	252,252	756,757
47	0+00	0+20	16.5	3	181.7	22	131.1	6.0	188,760	566,280
48	0+15	-	16.5	3	185.9	14	152.3	10.9	219,383	658,148
49	0+78	1+15	10.5	3	85.9	25	91.4	3.7	131,622	394,866
50	0+00	0+45	10.5	3	86.9	29	96.1	3.3	138,417	415,252
51	8+80	11+25	16	5	196.6	125	232.0	1.9	334,134	1,670,668
52	700+00	701+00	9.5	3	74.1	52	103.9	2.0	149,657	448,971
53	500+75	503+25	10	3	115.3	142	168.7	1.2	242,860	728,579
54	503+25	505+28	10	3	116.2	152	173.5	1.1	249,901	749,703
55	505+28	505+45	9.5	3	66.9	16	70.4	4.4	101,432	304,296
56	0+00	0+40	9	3	61.8	29	79.9	2.8	115,065	345,196
57	508+45	509+62	9	3	67.1	61	107.4	1.8	154,719	464,156

58	0+71	3+71	16	5	198.2	152	246.0	1.6	354,241	1 771 202
59	0+71	3T/1	16 18	3	208.9	11	164.1	14.9	236,252	1,771,203 708,755
60	3+71	4+40	16	3	180.6	37	167.9	4.5	241,779	708,733
61	703+70	705+40	9.5	3	98.1	237	223.8	0.9	322,218	966,655
62	4+40	6+35	12.5	5	153.8	125	211.1	1.7	303,915	1,519,573
63	6+45	9+00	13	5	159.6	176	241.2	1.7	347,291	1,736,453
64	700+95	703+75	8.5	3	77.1	175	208.2	1.4	299,797	899,390
65	1000+00	1002+41	9	3	85.9	183	196.9	1.1	283,500	850,500
66	8200+15	8201+45	7.75	3	98.9	78	131.4	1.7	189,181	567,544
67	8000+14	8003+10	9.5	3	124.3	170	183.7	1.1	264,522	793,566
68	0+04	2+45	8	3	89.9	152	170.6	1.1	245,688	737,063
69	2+45	3+90	9	3	98.5	75	129.3	1.7	186,207	558,621
70	0+04	2+41	9.5	3	106.4	152	170.7	1.1	245,796	737,388
71	2+41	3+70	9.5	3	97.5	67	124.5	1.9	179,220	537,659
72	Sheet 43A	3+70	10.5	3	114.1	20	102.3	5.1	147,279	441,836
73	15+95	18+95	15.5	5	203.1	152	248.5	1.6	357,783	1,788,913
74	18+95	21+95	15.5	5	186.7	152	240.4	1.6	346,169	1,788,913
75	21+95	24+95	16	5	186.7	152	240.4	1.6	346,169	1,730,844
76	24+95	27+95	16	5	186.7	152	240.4	1.6	346,169	1,730,844
77	27+95	30+95	16.5	5	194.9	152	244.4	1.6	351,904	1,759,519
78	30+95	32+15	16.5	3	182.4	62	188.9	3.0	272,002	816,005
78 79	600+00	602+73	9.5	3	71.9	152	193.7	1.3	272,002	836,612
80	0+00	0+30	9.5	3	46.0	17	60.0	3.5	86,389	259,167
81	602+73	605+73	9	3	104.7	152	170.4	1.1	245,317	735,951
82	605+73	606+60	10	3	103.0	59	123.0	2.1	177,128	531,385
83	700+25	703+25	9	3	112.9	152	172.5	1.1	248,333	745,000
84	700+25	705+99	9	3	112.9	152	172.5	1.1	248,333	745,000
85	705+99	705+33	8.5	3	102.2	54	119.7	2.2	172,436	517,309
86	11+95	14+95	14.5	5	206.4	152	250.1	1.6	360,165	1,800,826
87	14+95	16+00	14.5	3	192.6	55	189.2	3.4	272,376	817,129
88	0+00	2+63	10	3	88.3	153	171.5	1.1	246,992	740,977
89	40+80	37+80	14.5	5	194.9	152	244.4	1.6	351,904	1,759,519
90	37+80	34+80	13.5	5	178.5	152	236.5	1.6	340,630	1,703,151
91	34+80	31+90	14.5	5	194.3	147	241.8	1.6	348,120	1,740,601
92	1100+00	1102+81	9.5	3	91.6	152	170.2	1.1	245,064	735,192
93	1100+00	1102+81	9.5	3	90.5	140	162.9	1.2	234,582	703,746
94	1102+81	1104133	9.5	3	75.9	11	85.0	7.7	122,437	367,310
95	1102+80	1106+50	9.5	3	116.2	152	173.5	1.1	249,901	749,703
96	1104+93	1108+80	9.5	3	116.2	152	173.5	1.1	249,901	749,703
97	1108+80	1111+18	10	3	124.4	152	176.7	1.1	254,449	763,348
98	1111+18	1111+18	9	3	105.2	122	155.8	1.3	224,293	672,880
99	0+00	2+58	10	3	124.4	152	176.7	1.2	254,293	763,348
100	2+58	5+58	10	3	124.4	152	176.7	1.2	254,449	763,348
101	5+58	6+50	8.5	3	80.0	48	104.2	2.2	150,031	450,093
102	0+00	3+20	10.5	3	124.4	152	176.5	1.2	254,132	762,397
102	-	3+20 -	13.5	3	155.2	9	116.9	13.0	168,274	504,822
103	1		13.3	,			1	Dewatering Op	· · · · · · · · · · · · · · · · · · ·	83,748,085

	Max	Avg.				
Avg.	Radius of	Radius of	Max Daily	Maximum	Avg. Daily	Total
Dewatering	Influence	Influence	Pumpage	Pump Rate	Pumpage	Pumpage
Depth (ft BLS)	(ft)	(ft)	(GPD)	(gpm)	(GPD)	(Gallons)
10.9	208.9	122.1	360,165	250	238,543	83,748,085

NOTES:

- 1. The above groundwater withdrawals are calculated using Sichardt's equation w/H=44.2, h=H-drawdown and k=0.00003
- 2. Well points will be spaced at 4-foot intervals on a 300-foot header pipe
- 3. Dewatering operation will be performed as a rolling operation, setting well points and dewatering in 300-foot increments
- 4. Dischrge will be to secondary canal system

Calculation results presented hereon prepared by



Pipe Trench Dewatering Calculations

Commission Memo 23-054

Attachment 1



DtSIGN I GtOSPATIAL I INERASTRUCTURE

the Self

<u>Structure</u>	<u>Dewatering</u>

Sheet 37A	Station	0+65	11111111	WAL ENGLISH Ken Self, PE	
			.,,	FL License No. 88741	
	Length	5.49 m	18 ft		
	Width	7.32 m	24 ft	Avg. Surface Elev	6.00
	Perimeter	10.97 m	36 ft	Avg. GW Elev	0.00
	n	11 number o	of well points	4 foot spacin Avg. Excav. Elev	-9.00
Depth	h to dewater	3.66 m	12.00 ft	Max Wellpoint (ft)	18.00
(maximum	drawdown)			Max Drawdown (ft)	12.00

Radius of Influence

(3' below Excav. Elev.)

Sichardt's equation $R_0 = 3000(H - h)'Vk$

Н 44.20 Total head of water table aquifer, m

h 40.54 Total head of dewatered aquifer, m

0.00003 Hydraulic conductivity, m/s k

60.10 Radius of Influence, m

197.2 ft

$$\mathbf{r}_{e} = \underbrace{\mathbf{JLxW}}_{\mathbf{TI}}$$
 Equivalent Radius of Influence for Rectangual Pits

L 5.49 m

W 7.32 m

> 3.57 Equivalent Radius of Influence, m 11.7 ft

Total Radius of Influence

$$R_{total} = R_o + r_e$$

Rtotal

63.7 Total Radius of Influence from Center of Dewatering Area, m 208.9 Total Radius of Influence from Center of Dewatering Area, ft

Oewatering Flow Rates

Q 0.010351 Total flow rate for dewatering operation,

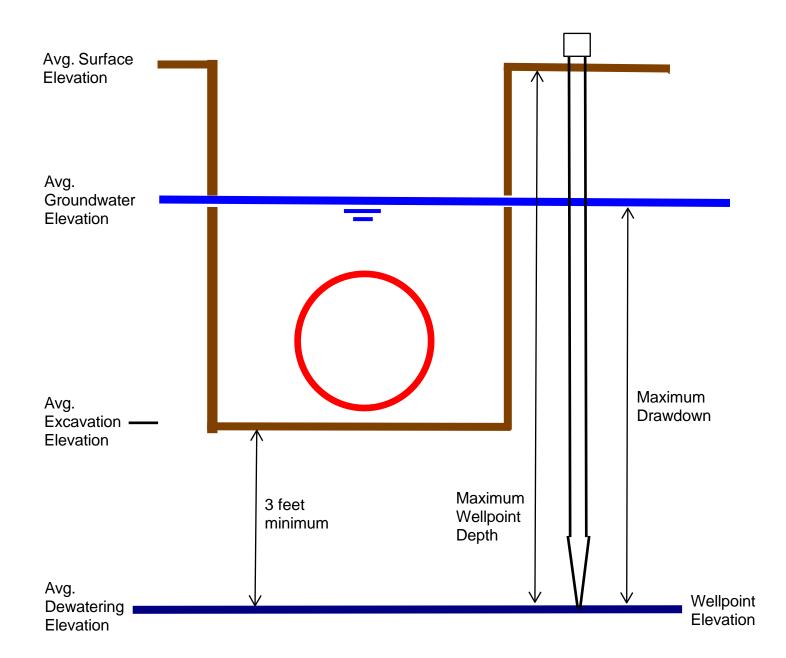
Qper well point 0.000941 Flow rate per well point, m /5

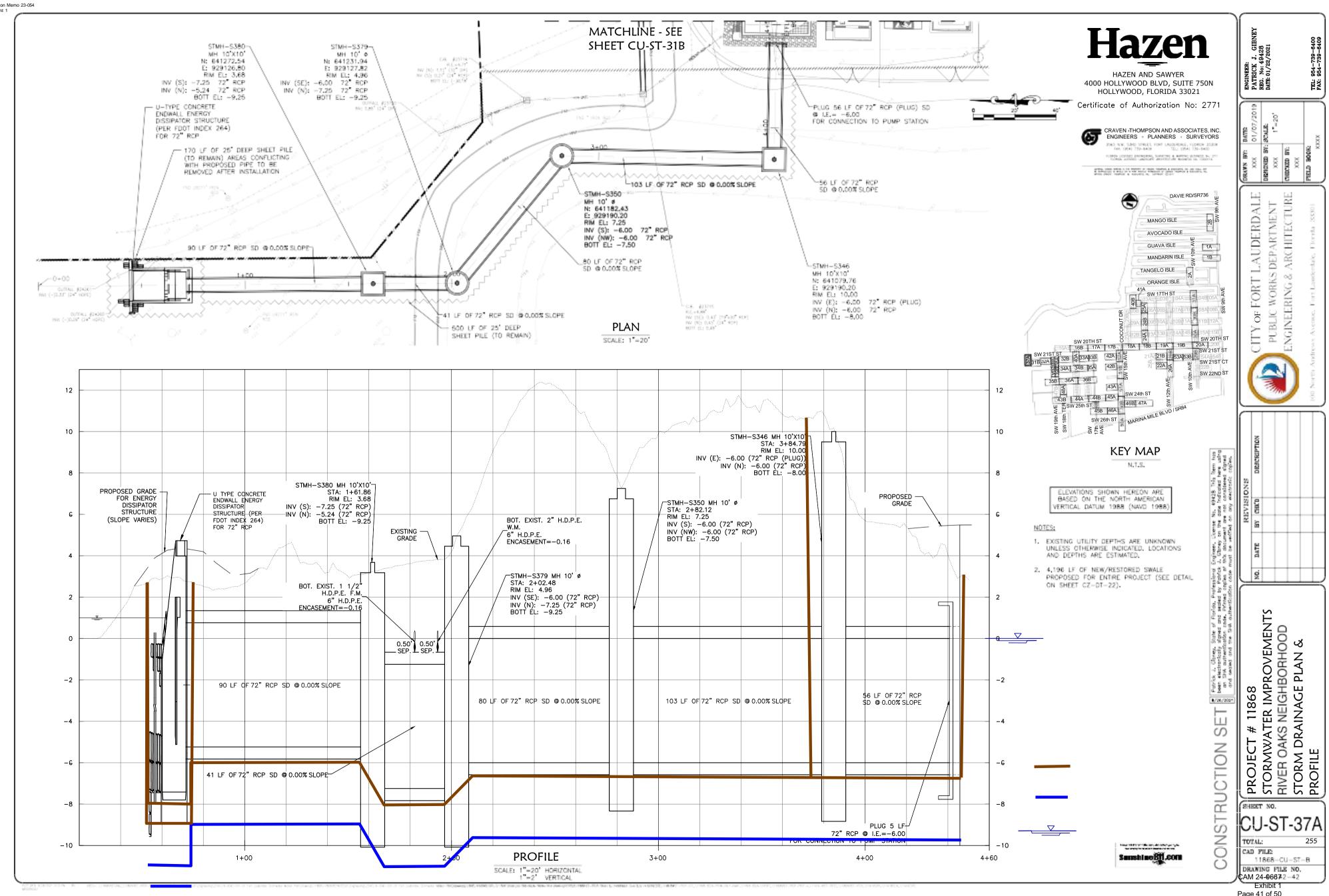
164J)636 Total flow rate for dewatering operation, Qtotal

14.9t487 Flow rate per well point, Qper well point gal/min. gal/ mm.

 $m^3/_5$

Trench/Dewatering Cross Section (NTS)





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Requirement by Permit Condition Report

App No: 211202-8 **Permit No:** 06-08219-W

Project Name: RIVER OAKS STORMWATER IMPROVEMENTS

Permit Condition No:	15	Permit Condition Code:			WUDWT002-4			
Facility Name		Requirement Name	Col Freq		Sub Freq	Due Date		
PERMIT		Turbidity level at discharge	Daily		Data Held On Site	01-APR-2022		
PERMIT		Turbidity level at background	Daily		Data Held On Site	01-APR-2022		
Permit Condition No:	16	Permit Condi	WUSTD022-7					
Facility Name		Requirement Name	Col Freq		Sub Freq	Due Date		
PUMP-TEMP		Daily withdrawal for Pump PUMP- TEMP	Daily		Data Held On Site	01-OCT-2022		
Permit Condition No:	20	Permit Condi	ition Code:	WUD\	NT014-1			
Facility Name		Requirement Name	Col Freq		Sub Freq	Due Date		
PERMIT		Dewatering Commencement Notification	One time O	nly	One time Only	01-APR-2022		
Permit Condition No:	21	Permit Condition Code:			NT020-1			
Facility Name		Requirement Name	Col Freq		Sub Freq	Due Date		
PERMIT		Annual Dewatering Status Report	Yearly		Yearly	31-DEC-2022		

STAFF REPORT DISTRIBUTION LIST

Commission Memo 23-054 Attachment 1

RIVER OAKS STORMWATER IMPROVEMENTS

Application No: 211202-8 **Permit No:** 06-08219-W

INTERNAL DISTRIBUTION

X Priyantha Liyanage

EXTERNAL DISTRIBUTION

- X Permittee Ric- Man Construction Florida Inc
- X Engr Consultant Woolpert

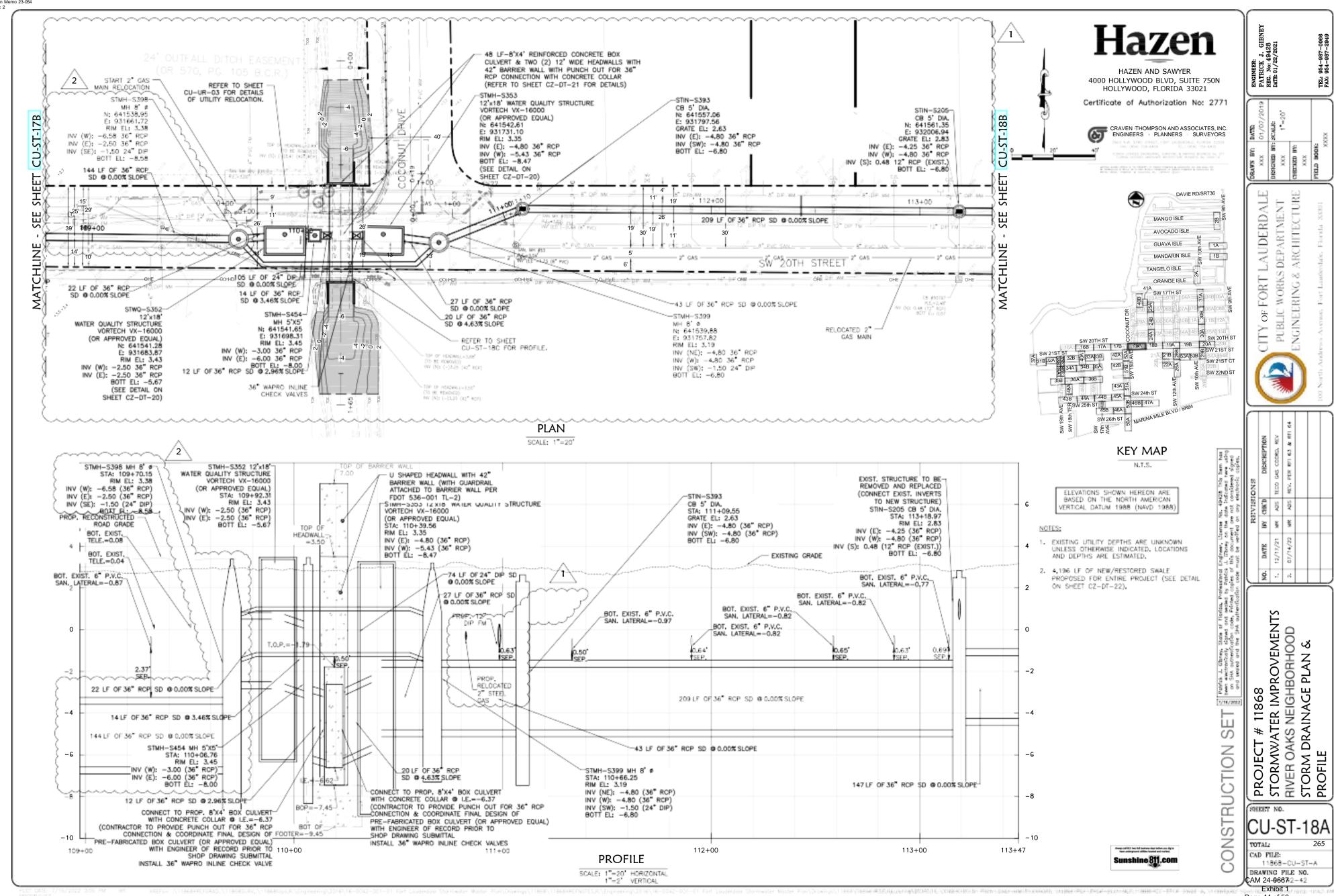
GOVERNMENT AGENCIES

- X Broward County Director, Water Mgmt Div
- X Dept of Environmental Protection West Palm Beach
- X Engineer, City of Fort Lauderdale
- X FDEP Div of Recreation and Park District 5

OTHER INTERESTED PARTIES

X Natural Resources Defense Council

Exhibit No:7



Page 44 of 50



ENVIRONMENTAL PERMITTING DIVISION

1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

NOTIFICATION OF POTENTIAL ENFORCEMENT ACTION

February 24, 2023

Daniel Mancini 3100 SW 15th Street Deerfield Beach, FL 33442

RE: Turbidity to marine surface waters as a result of dewatering activities:

SW 20th Street and Coconut Drive

(Sent via Certified Mail RRR: 7003 1010 0003 0970 6696

Electronic Mail - JSamuel@fortlauderdale.gov; cc: Jfeinberg@ric-manfl.com)

Mr. Mancini.

On 2/15/2023 (Service Request 1107303), Broward County Environmental Permitting Division (EPD) received a complaint concerning the turbidity as a result of discharges that occurred on 2/15/2023 at SW 20th Street and Coconut Drive. During a site visit on 2/16/2023, EPD staff discovered that the discharge from dewatering activities flowing to the canal at SW 20th Street and Coconut Drive was causing turbid water in the canal. This incident amounts to a violation of the Broward County Code of Ordinances, §27-196(a), which states: "No waste discharge to surface waters shall exceed the effluent limitation requirements contained in 40 C.F.R. Subchapter N or the conditions of any NPDES permit or State of Florida permit, whichever are more stringent. Discharges shall also: (1) Comply with the water quality standards in Section 27-195, Broward County Natural Resource Protection Code; and (2) Comply with State of Florida regulations for thermal requirements; and (3) Comply with turbidity standards contained in license conditions for activities licensed under Article XI of Chapter 27."

To avoid enforcement action please cease all dewatering activities around SW 20th Street and Coconut Drive immediately and submit the following information within 7 days of receipt:

- 1. Submit all monitoring reports.
- 2. Submit the procedures for the use of dewatering pumps and sediment tanks.
- 3. Submit a location map for the settlement pond.
- 4. Submit SWPP Inspection reports.
- 5. Submit the daily withdrawals for each dewatering pump.
- 6. Provide an amended SWPP that establishes appropriate BMPs for land disturbed areas.

Please contact Ashok Raichoudhury at 954-519-1490 or <u>araichoudhury@broward.org</u> with any questions you may have regarding this matter.

Sincerely,

ASHOK
RAICHOUDHURY

RAICHOUDHURY
Date: 2023.02.24 09:08:56 -05'00'

Ashok Raichoudhury, Licensed Engineer NPDES Non-Domestic Wastewater Program

Cc: Juan Carlos Samuel, Joel Feinberg



NOTICEO F PO E TIALE FORCE EN ACTIO

- · : i 83 • F

March 21, 2-023

Mr. & Chav arria, City Manager
City of Fort Laud _rdale
100 . Arl.drews Avenue
Fort La-rdcale. Flo a 33301
Via email o.tv.manager-@fo_faudardala.

Ric--Ma • OonsAn.Jotlon Flo a, Inc. do Mr. Dani I Mlancinf. Registered Agent 3 100 SW 1& Street Oe-elihe[d Beach, Flond'a133442 Via email: dmanci i@l'ie-man.oom

Mr. Alan Dodd, Director of Public Works
Cny mFort Laud_rdale
100 | drews Av-errn1eFon Lauderdale | Florida 33301
VT | mail: Mood@for!!!'au rda'hg.::900

!51 t 1:2

Ref• 1ru 18r Oaks siormwatt!:r Par: a.id Pl eserv,e

tBroward County's I:IRL Df 13-1113,and S.W.,M201!5-091 0, and S.FW'MD"s ERP 06-017241-Pti
Fort L1:u.Hier-,ci t-eStol!'mwat:er MPI - River Oaks Stormwater
,Broward County's ERL DF21 1148 and SW_20 ,8-081 5. and SfWMDI' BRP 06-iMI0:03..P

Messrs. Chavarria, Dodd, and Mancini:

10 iing it e Inspection ooti.du :ed 1 arch 7, \$. 9, 15 nd 20, 20 :23, Deparbnent t. ff ooted muliipte vrolations of Itle above referenced County's.EnvlfOrimental Resource I n&Qs (ERL) and Surface Wate IManagement licens s <SWM} i!limt the South Flooda water Management Cislriict's (SFWMD) 1En ronm nlal Aeoo roe Perml ERP). These vio tions Include u-nau1ru:r ed -d" ollarg:e.s. Into a wetland pr-eserve area. Tha app1tcal ons reo livad for o- se p ects, as wen as lhos for SFWMD's and Broward County's De w-a'tering Applfmrals., did not pro pose any tl'.:lischarges into u,e elland:ar,ea nor did helicenses,permits, and dewatering app I aulhorize or a rove die d soharge of ewatel'\ing e uent inlo, - Is are-a.

The Ouarler 6 MrlligaLion Monitonirig Report ro the Rl\iler Oaks, Preseli'.'e-, received Feb.ru ry.17, 2023, p.rnp, ared and! submitted by Cha p&II Group Inc., rnporled visible Imbfdity wiU11n tJoo J!UiSOI'V, water elevations exceeding the control water e evatian, and Ifmt the number of instelled plants h3cS decreased [nee, 1ilime Zero Report.in Nov.emb r 20 1. N'o rec urtmaint was observed, an currently 'U!I project is. not trending toward slicci ss. Furller clang thllrl Mar, chapped 2023. ITTSpection, a samataen in Ille preserve ation to 130-fee -rrom- e d'schar, gepoint and Ollllside, of the tucUfy curtains had a tuticlity value of 36:2 **NTUs.**

The foling via 6 no indiil ual permillicen e donditions fat ch pmjecle Jer'ilcletd;

RiV€I" Oaks Sto:rm"Nam Park and Pires€!!i'V€1'
SN'MD ER. O -07241 P General Concli ons:

Commission Memo 23-054 **PEA** Attachment 4

Oity Q Fad Lauderdek! and R"io-Man COnstru!;i4kin Florid'a, Ilnc.

rd! **:U**:202.3 Page 2 of !ii

- 1:. All aelivities. shall be implemented following the plans, speci,1c-ations and pe orm:ence criteria ppro\!"8d b lhts. era!lll Aniy devla ons mu;st oo a U,;l)me.d'rn arn 1 1.frjQ(llfic nio!il in accordafloa wilt! RulEi: 62-330.315. FAC_Any deviations n,at are 1rmt so authoriz!!ild may s11.1bj;oc:lh pllilrmittoo tenrorcement action and revoca ion of the permrt under Chap.te 3 3, F..S.
- :3. Aoti\ritres :sha I be ocmduewd a man r that does ri01ca e o_contribute to viol 'liions_or lale water quality standards. P,eribrma:nce-tr se.d erosion and sedimen-m ,control be.st management _racUces s.tt I be I 1aJed immed ale _pri_r te_and be maintained during aoo after cons,fruction as need. fo, prevent adverse rmpacts to U'l& waitar rssouricss and ad aeent la
- 4. Al east 48 hoors pl'lioir o beginning U1ie aullImized m::IM!ties, Ule pel'lli1ttee shall submit to **lhe** Agency ful f ecuted rotm &2 30.350(1),, "CoMItIJi ion Com.menoem rIII Notice f icatin he 8)1:pected slarl data and comp Hon dates. A oopy of this fo may be oblained firefiffilitle Agency, as aescribed m :suhsecfian 62-3.30. 010(5), F,A,C, If avmla e an Agency websile lhat ulfi-l lhi notmca on requireme-nt may be us.ed in lieu o-1 the form.

SFWMIJ ERP 06-07241-P Special Corlditions.

- The permrttee hall b- responsible ror •he correction of any ,era km, s aling or water qua ·1y proh:lems lhalf sull ['Qr lti& oonstrual:on m op 11':aUoo of the sur(at,:iri-wate- mana-g ment S;tS10m.
- 2. Measures shall be takefl du.ring oonstrut:Uon !o ens.ure that sedimentation anlilot wrb ily problems al'e nol created In he re "ng water.

Broward Courlty ERIL DF13 11113 and S\IVM201S.091,.Q (3enera1 Conditiotl:S:

3. In tha eve-rrt the I8Cei"1Sea Is temporarily una a to | Iy witlri any of he coridilt of the license, the license is shall notify EPGMID ilhin tw-elve (12) hours.. Within •1ve ,(5) working das. of IIIe event, the license shall submit a writte,n epoll'tto EP⋅GMO, thiait describes the u.c-idenl, its, cause, e-asure.s. • Ing ta'l<.eri to,c(II] U'le pi'Oblem and prev,enl ,eocc1L1rren@, - ,owner's. inbm1iicm lowar-d re pair, re plaa8:ment₁ and reoo111strudiun of d:e:slroyed facilrti€s:,, and a sohed1.11te of • ,n reacting toward operation Wiilti'n the • icense oonditlons.

Broward Ccunly SWii.112015-091-.O Specific Cond11ions:

- 3. The licensee sha prosec1.1te the work authori eel in a minner i.o as, IIO minimize any adverse impact of the works of fish. wildltt, ... n.atura, I invitronmental 1ta'lues and wa quity. The licensee snall institute nece:ssary measures durii1119 IIIe construction period, including fill compaction of any line in the receiving weavers. Any rosion sticaling or during idity, nut entiteding not sedimental on in the receiving weavers. Any rosion sticaling or during idity, nut entitle due to permittoo a oliT1s III be corrected prromptly at notice;;;pense to 'I.Irle County'.
- 1'3. The operation of correct cition will einaooordance with the approvided and pf.an submitted "Ih Iller: plfcalion. AJ'ly imodification must be submitted to E:LBPD in writing and repoive prior 8\pprov.al.
- 17. The lie.ens e shalm not, y that ELB!PO In 'N(1Ung 'Witlnrn twent-:r'four hou-rs of lhe, start n sh, s:UsfjQllSi;on andfor a'bandonmElfl1 ar any cons!ln.lctian or :a.1111:lr:alinn or works :iulh:oriz.@d by his cense.

!Broward County. ERII.. DF13-11113 Standa **d** Condrnlans:

- A.1. Any project caused en/1,i'ironme:ntal problem(s) Shall be immediately r,eport.ed to e Department's En ronmari, 1Ra pcnse Lilr,e, t '954-519-1499
- A.7. Tmbidity screert, sor equival ent shall be p erly employed and, mainbilined as n!E!cess:ary during construction div es so hat turtidity1evels do not exceed 29 TU's above natural background

Oity Q[Fad Lauderdek! and R"io-Man COnstru!;i4kin Florid'a, Inc.

rd! 21,:202.3

Page 3 of!ii

50' downslJ,eam,of point of disctiarge. I'f tun: idily levels exceed Uiese limiits, pr,ojed acmivilies hall Immediately ceas.e, and shall no:t resum unl tu oEty J v,els -rop, In thesellm11.

- AJt Tumidity IBwls:shal be rnonLtored and r@COJ-ded ir a visib lurnidity plum€: s observed lea vin91 he s te urilig OOMI.ruction a ti- ties.ir monittl/md revea thal iurbidity evets exceed 29 N Us abO"ve th fit tural b'ackground 50' cnunstraam or U, pain or discha1191roJrect ac "!Jifles ghall immedial:elv cease, and work:shall not resume until rurbldity levels drop, "thin the se limj s,
- A 9 If an obsen,, ble 1 urbid ly lilllme s; isi e tea\iffg u,e site, the rcensee sha
 - a) immedia. y cease a work corrtribl!!!Urtg i:o lhe wat ii quality 'Violation_ Operations may not r:esurne uni the Clepa.rtment.gives authorization to do so.
 - b) Ntrtiry 't e Developmenl n En ronmental Regl:!ifation,tr :liion (9.54) 519 230 Jll'lin 24 ho1;1rs of the :me the first vJoratlon is d'e1,ectw.
 - c) Stabilire aJIm:po:sed material conhi uting 1/1.othe waler qua ily •1,da ioo. Modify he work rooedures Lh t were response e for U, e 1/Jolaitio, arid 1/1 it Imore turb di 1/- oontainment iYk:es and/or 1 reparir, ain-y non-rundJornmi9. iurb- 1/1 utility oonlainm non i:h:ivjoos, If li'QQuired by Delpartme1111 rurnidity mannorning program s:hal be initiated.
- B.3. Any weUand areas o wale bodie wh tri are u:ljacent to ll'ie speoi, c lirnils of corr 1r11.1Clilon auU11ori d hy ltiis lloonse stlrul lb p1ii:fect d rmm (}rnsh:m, se-dimenta-. on. siltali , sco1tJrin9 excess h.1rbi.cny or dewatering.
- C.2. Long-term manageme-nt and ma otena ce of e Stormwat r Palfi: m gaUon s11a111be lhe parpatual r sp.onsibilily of lha CLty of Fort. Laud@rdaro. The ccms0nra.tian ari as shall oo perpetual responsib51ity of l.he City o FM Lauaerdale and may in 100 way be 1tered from 11rie, r oatull a,lor lloens.ed stat a documerited n Is I•cen e, wilh lhe 8I(CSP,tion of restoratloo activities_ AclivitJI'J:S prioln E::d wilhin Ille conSffl'Vation .:uea(s) -ndud, but re not limit d to: oonstruction or pl:a.oement of so or ether subs nces su-: as tmsh; ,.emova1 or destrucUon of t- shrub or r_v geta lori (wt the ori of e:.::o cltliulsai,ce vie e--U.tlor1i) rem1l>var1: excavaticn, dredgrn:Eh or rernova of sci riaf.€::rial; d1kin9 or foncing, and any oth r adi vi es detriimerrta1 to drainage,, Aood conlrol, wa er cooservation erosion control or fis.h and lidlife habltatt COfl68Natlof'llor pJiesetVatl00
- C.9 Shlouk: I Ille Oepartmelfill determine that the Alreas are not achieving U,€ Illisled cnle- during ome ponion or lhe monitori -g period, lhe licensee :sn:all d'eterm ine he reasons, for failure anii:l pre-pare pl.a u, damonsirat d clearly how th_pr,ob m :s) will be coo'.cted.and Sl!llbmit Sl.lCl'1 plans immedi:ate1y to the Depar1ment for approva .Thos€: plans sha be-impl'emenled within 30 days rrom Hrue, Cep.artme t's approval.

A Notice of Non-Corn, pliam::e was issued by iltle Oepartmenl on February 25, 2022, or SWM and EIRL lioense/iconslr-u on inClOl"!! isl.encles. To Cilale, the lm::.olilSiistency lss\re. ha.\(\frac{1}{2}\)e no been Fully addressed.

EOdJ.:a - eJ.d1alafil-OJJnWaterJMl2l iYeJrpa sJ3t9Jlllwat er Broward Co-utt!y S\IJM2018-0B1-.5 Specific Conditions:

3c In Ih@, vent Itle licensee is t, mporarniLy unab to comply with any of th conditions o1ilha lioonse, u,e m:::ensee shall I"IOlify E P G • D willlin twelve (• 2) noura. Within 1ve (SJ, worki1111g days o Ille event Ilhe I.c fi • IlsiJbm t;a\WJ"Illen report o EPGMO Ihal de crloos Ih i!"itlde t.1Hs tat!lse., Ille measures oo1ng I.aken to carrocl u, • probl'em and 1prev1Enl 1s reocoorumc • th12OW"I"Iflr's beruio-n I:Oward rep.air, replacemer 11, and reoonsAn.Jction of destro, 1ed ra-cm ie5,, and a S!checuJe of adion lea - ing toward opera.tloi'l withfn tll licel'l oond1_oris.

Commission Memo 23-054
PEAAttachment 4

Oity Q[Fad Lauderdek! and R"io-Man COnslru!;i4kin Florid a, llnc.

rd! :U1:202.3 Page **4,,of**!ii

Inspection of March 20, 2023

An inSJ)eclionwas alsooonduclf.id on March 20, 2023 by the s-taff of the Aqumic anrIWff and sR€sourc€:s 1 Program end the Surlace Waler - anageme I Program Tha 111Ispection noted the rolowr

River Oaks Sto:rnnwater P-ark and AresizIIIVEt

ERP 06-0724, - P, ERL CF13-11 3, SWMZ-01 §-091 :

1) Pal!'iimeter bem'l approv_d und'8f Br,oward Counly Surf:ae@, Water anagament License . o. SWMi20 5-091--0 al.e atioin 4L0' NA.VD was not construded per license approval.

<u>Foo.La</u> <u>erdtal!Ei Stormwa er PI R 'Iter Oa s stormwater</u> ERi? <u>06-80003.P, ERL</u> DF:21--1 48, SWM20'18-081'-S as modified:

- 2) Uoau horized grave1 That been placed in two rooalions 1 in the Coco Ca al.
- :3) CI aring1alOf!glhe bank\$.of th. Coconut Canal on north side of SW 20 SI.along1Coconut Dme ie:i<ceed U11e 50' (Sheet CA-DT-21) resulting in mare man: rove :sitter8Jtion Ulan proposed.
- 4) The ocaUon Of !Sltucture SIMH-S377 _____; pears n to malohth proposed/l'icellSe locationt.
- 6) F',er a :pr-QV0d prans,, a [PQIutiQn ii I:ardanl barn s I c, 1111s,ed and was showfil on Iha as..,built dlra-ngs dal.ed roh 3, 2022, bul was nol abselved during this in\$J!eCUon.

C'criNI!cth,e Actions

To bring the Forl laudemale S19r:imwate Park, and Preserve project if; IIO coo, ranee, 1)-mediately ce@sill: all dew.alering1adi, vitie:s inlo IIIe welland m gation f proservation ro@ia and use on 'tf11e-pr, -p proved dewstering tocations. 2) 1prov'. a monitoring an sampling plan (water qua.lily a11id turbi:di y le\le'l:s.. o:) II. fi'l les, balh rn IfIc UNey, egei tlons r:vey. IC,), w ___ III'l 0:i {30} days. of lhe · · c.f his notion lo ewluate line impacts. of U1e-deWi!ilt:eriag activities an th€ wetland ar, ea, J). pFeparn a remedi:a on plan ·Oorestore the ·wetland! area, 4} measure water t e e'levatioris weekly a d document, 5) contact lhe, Eng near of Record to d'souss syst m layou ch n-, on:site and 6} 1 mod1fy or apply 'for ew lioonse(sifpermit(s) as necessary lo refteot dumges rnaae. Since lhe prior perml1:Ilicense (ERP 06-0724 P, E'Rl Of 13-11131, SWM:2015-091-0)ihas exp"red, a new ERP/8RU.SWM Wlii be re ived for the rnrti:edlall:iori'l "NOIk., Quarkfi monitorin, gar II'le miligiatlon area sha'll COfl'l:im.1e 't-o document lha dedine mlfor recovery of lhe area. Additi(IfI)B;I mc:r ,-Ir:ning may be requir, ed after rnmed'iali:on.Irestoraoon.

To br[ng th __Fort Laud_rd'aile_Stonnw-a+er_MPI - Riive:r_Oaks_larmwaler projficl into iwmpliano., 1) immerlialely rnmove U1e unau:thorize gra,ve_fill from Cocon_t C:ana11, aoo .2) pply for ai modification of ERi? 06-80003..:P, ERL DF2 1-1 • .8, SWM2018-081-5 • to,show he p opoced revised location o:f - UJJJ .ture STMH-8377, 3)contact th __1En9_ne-er of R: COl'd to discuss syst_m layoul changes on site, 4) moo-fy or ppl'y for ne __lkense(s)lpermitts:) as ece-s: ry to r,en'ecctianges made and 5} .addr,ess the adcli'lional mangrove alteratl(:in.

Please be advised --- each violation of a general or s,pecific oondioon is,a separate violation of lhe ln:s.e/p rm t

Vou are hereby no:tiried that a Nolice of Violation w1be isstilled in accordance that the Broward County's Na ura!! R. souirce-Protedl'On Ooda. Evid ric, or oon! : ed v o IOf'IS at Ih s Ite may re:sult Iri clvll penalties of up to \$-15,000 per day ip r viola io:n. If you hav any questions: plea do imol hesitate to contact me at Is.underland@broward.org. or 954..519,,1454.

Commission Memo 23-054 **PEA** Attachment 4

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Page .5, of !ii

SlnQ ilely.

f:.!in, -k1 **<:Jl,**tth;r/411,r/

II.!1nda1Sunderland. F'WS

E iironrnenta1 Program S-pervi or

C: T IEIr Chap-,- H, The Ollappa I Group, Irnc.