



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WATER USE PERMIT NO. RE-ISSUE 43-00087-W
NON-ASSIGNABLE**

Date Issued: August 31, 2009

Expiration Date: September 13, 2029

Authorizing: THE CONTINUATION OF AN EXISTING USE OF SURFACE WATER FROM THE SFWMD CANAL (C-44) FOR DIVERSION AND IMPOUNDMENT AND AGRICULTURAL IRRIGATION USE SERVING 2205 ACRES WITH AN ANNUAL ALLOCATION OF 2644.18 MILLION GALLONS.

Located In: Martin County, S28,29,32,33/T39S/R40E
S2,3,4/T40S/R40E

Issued To: BOX RANCH OF MARTIN COUNTY LTD
(BOX RANCH OF MARTIN COUNTY D&I)
7929 S W JACK JAMES DR,
STUART, FL 34997

This is to notify you of the District's agency action concerning Permit Application No. 090206-16, dated February 5, 2009. This action is taken pursuant to the provisions of 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 Permit is in effect for this project subject to:

1. Not receiving a filed request for an administrative hearing pursuant to Section 120.5 and Section 120.569, or request a judicial review pursuant Section 120.68, Florida Statutes.
2. The attached 23 Limiting Conditions.
3. The attached 9 exhibits.

Permittee agrees to hold and save the South Florida Water Management District and its successors harmless from any and all damages, claims or liabilities which may arise by reason of the construction, maintenance or use of activities authorized by this permit. Said application, including all plan and specifications attached thereto, is by reference made a part hereof. Upon written notice to permittee, this permit may be temporarily modified, or restricted under a Declaration of Water Shortage or a Declaration of Emergency due to Water Shortage in accordance with provisions of Chapter 373, Fla. Statutes, and applicable rules and regulations of the South Florida Water Management District. This Permit may be permanently or temporarily revoked, in whole or in part, for the violation of the conditions of the permit or for the violation of any provision of the Water Resources Act and regulations thereunder. This Permit does not convey to the permittee any property rights nor any privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation, or requirement affecting the rights of other bodies or agencies.

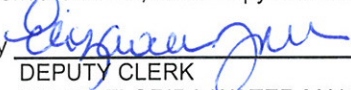
Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Should you wish to object to the proposed agency action or file a petition or request, please provide written objections, petitions, requests and/or waivers to:

Elizabeth Veguilla, Deputy Clerk, MSC4240
South Florida Water Management District
Post Office Box 24680
West Palm Beach, FL 33416-4680

Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

CERTIFICATION OF SERVICE

I HEREBY CERTIFY that the Staff Report, Conditions and Notice of Rights have been mailed to the Permittee (and the persons listed on the attached staff report distribution list) no later than 5:00 p.m. on this 1st day of September, 2009, in accordance with Section 120.60(3), Florida Statutes, and a copy has been filed and acknowledged with the Deputy District Clerk.

By 
DEPUTY CLERK
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

LIMITING CONDITIONS

- 1. This permit shall expire on September 13, 2029.
- 2. Application for a permit modification may be made at any time.
- 3. Water use classification:

Diversion and Impoundment into Non-District Facilities.
Agricultural Irrigation

- 4. Source classification is:

Surface Water from:
SFWMD Canal (C-44)

- 5. Total annual allocation is 2644 MG.

Total maximum monthly allocation is 347.7273 MG.

These allocations represent the amount of water required to meet the water demands as a result of rainfall deficit during a drought with the probability of recurring one year in ten. The Permittee shall not exceed these allocations in hydrologic conditions less than a 1 in 10 year drought event. If the rainfall deficit is more severe than that expected to recur once every ten years, the withdrawals shall not exceed that amount necessary to continue to meet the reasonable-beneficial demands under such conditions, provided no harm to the water resources occur and:

- (a) All other conditions of the permit are met; and
- (b) The withdrawal is otherwise consistent with applicable declared Water Shortage Orders in effect pursuant to Chapter 40E-21, F.A.C.

- 6. Pursuant to Rule 40E-1.6105, F.A.C., Notification of Transfer of Interest in Real Property, within 30 days of any transfer of interest or control of the real property at which any permitted facility, system, consumptive use, or activity is located, the permittee must notify the District, in writing, of the transfer giving the name and address of the new owner or person in control and providing a copy of the instrument effectuating the transfer, as set forth in Rule 40E-1.6107, F.A.C.

Pursuant to Rule 40E-1.6107 (4), until transfer is approved by the District, the permittee shall be liable for compliance with the permit. The permittee transferring the permit shall remain liable for all actions that are required as well as all violations of the permit which occurred prior to the transfer of the permit.

Failure to comply with this or any other condition of this permit constitutes a violation and pursuant to Rule 40E-1.609, Suspension, Revocation and Modification of Permits, the District may suspend or revoke the permit.

This Permit is issued to:

Box Ranch of Martin County
7929 SW Jack James Drive
Stuart, FL 34997

- 7. Withdrawal Facilities:

Surface Water - Existing:

- 1 - 24" x 100 HP X 15000 GPM axial flow Pump
- 2 - 30" x 120 HP X 25000 GPM axial flow Pumps

8. 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:

(1) 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

(2) 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.

9. 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 caused by withdrawals, as determined through reference to the conditions for permit issuance, includes:

(1) 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.)

(2) Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or

(3) Land collapse or subsidence caused by reduction in water levels associated with consumptive use.

10. 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:

(1) Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface,

(2) Reduction in water levels that harm the hydroperiod of wetlands,

(3) Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,

(4) Harmful movement of contaminants in violation of state water quality standards, or

(5) Harm to the natural system including damage to habitat for rare or endangered species.

11. If any condition of the permit is violated, the permit shall be subject to review and possible modification, enforcement action, or revocation.
12. Authorized representatives of the District shall be permitted to enter, inspect, and observe the permitted system to determine compliance with special conditions.
13. 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.

14. The permit does not convey any property right to the Permittee, nor any rights and privileges other than those specified in the Permit and Chapter 40E-2, Florida Administrative Code.
15. Permittee shall submit all data as required by the implementation schedule for each of the limiting conditions to: SFWMD, Environmental Resource Compliance, P.O. Box 24680, West Palm Beach, FL 33416-4680.
16. In the event of a declared water shortage, water withdrawal reductions will be ordered by the District in accordance with the Water Shortage Plan, Chapter 40E-21, F.A.C. The Permittee is advised that during a water shortage, pumpage reports shall be submitted as required by Chapter 40E-21, F.A.C.
17. Prior to the use of any proposed water withdrawal facility authorized under this permit, unless otherwise specified, the Permittee shall equip each facility with a District-approved operating water use accounting system and submit a report of calibration to the District, pursuant to Section 4.1, Basis of Review for Water Use Permit Applications.

In addition, the Permittee shall submit a report of recalibration for the water use accounting system for each water withdrawal facility (existing and proposed) authorized under this permit every five years from each previous calibration, continuing at five-year increments.

18. Monthly withdrawals for each withdrawal facility shall be submitted to the District quarterly. The water accounting method and means of calibration shall be stated on each report.
19. The Dependent secondary users listed herein must advise the District and the diversion and impoundment permittee prior to any change in demands.
20. Within 90 days of the diversion and impoundment permittee agreeing to the inclusion of a dependent secondary user consistent with the requirements in Section 2.7.3.A. of the Basis of Review for Water Use Applications (BOR), the diversion and impoundment permittee is responsible for submitting a request for a permit modification to the District to include the dependent secondary user.
21. The diversion and impoundment system permittee is responsible for all violations of diversion and impoundment permit terms, except the violations of the dependent secondary users.
22. Every five years from the date of permit issuance the permittee shall submit a water use compliance report for review and approval by District Staff, which addresses the following:
 1. The results of an on-site irrigation efficiency evaluation that estimates the efficient use of water on the project site, based on the method of irrigation that was permitted. Based on the evaluation, the permittee shall identify and implement specific actions to achieve the efficient use of water for the duration of the permit. In the event that based on the onsite irrigation efficiency evaluation an additional water allocation may be necessary, the permittee shall apply for a modification of the permit if the permittee intends to utilize an additional allocation, or modify its operation to comply with the existing conditions of the permit.
 2. A comparison of the permitted allocation and the allocation that would apply to the project based on current District allocation rules. In the event the permit allocation is greater than the allocation provided for under District rule, the permittee shall apply for a letter modification to reduce the allocation consistent with District rules. In the event that the permit allocation is less than allowable under District rule, the permittee shall apply for a modification of the permit to increase the allocation if the permittee intends to utilize an additional allocation, or modify its operation to comply with the existing conditions of the permit.
23. The permittee shall continue to investigate the feasibility of utilizing reclaimed water as an alternative water supply for this project. To this end, the permittee, or its successor, shall provide the District with periodic reclaimed water feasibility reports, to be submitted at five (5) year intervals commencing five years from date of permit issuance and continuing through the duration of this water use permit. Such reclaimed water feasibility reports shall evaluate the feasibility of utilizing reclaimed water and specifically consider:

- (1) whether a suitable reclaimed water supply source is available and permitted;
- (2) whether reclaimed water supply lines are available at the property boundary in sufficient capacity to serve permittee's needs;
- (3) whether the permittee is capable of accessing the reclaimed water source through distribution lines;
- (4) whether use of reclaimed water is technically, environmentally, and economically feasible; and
- (5) whether use of reclaimed water would conflict with requirements contained in permittee's surface water drainage permit, if appropriate.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Water Use Limiting Condition Compliance Report

Quarterly Report of Withdrawals From Wells and Surface Water Pumps

This Report must be completed and submitted to the District at the address shown as required by your Permit

Permit Number 43-00087-W

Project Name BOX RANCH OF MARTIN COUNTY D&I

Issued to BOX RANCH OF MARTIN COUNTY LTD

Address 7929 S W JACK JAMES DR

City, State, Zip STUART FL 34997

Phone / Fax No (772)287-2111

E-mail

Return To:

South Florida Water Management District
Attn: Water Use Regulation Division (4320)
PO Box 24680
West Palm Beach, FL - 33416 - 4680

Water Withdrawals, Million Gallons

Requirement Name	District Identification Number	Month: _____ Year: _____	Month: _____ Year: _____	Month: _____ Year: _____	Accounting Method	Date Last Calibrated
Monthly withdrawal for PUMP P1 (West)	37099					
Monthly withdrawal for PUMP P2 (West)	37100					
Monthly withdrawal for PUMP P3 (East)	37101					

Name of Person Completing Form _____

Signature: _____ Date: _____

Form 0188-QMON (08/03)

Printed: 08/31/2009

NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review 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. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. 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 (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk 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, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD 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.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be 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 SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does not constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office.** An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

Initiation of an Administrative Hearing

Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 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 SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's 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 SFWMD'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 SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD'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 SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD 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 that the SFWMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation

The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

**FINAL APPROVED BY
EXECUTIVE DIRECTOR
AUGUST 31, 2009**

Last Date for Agency Action:
September 13, 2009

Water Use Staff Review Summary

Application Number: 090206-16
Permit Number: 43-00087-W
Project Name: BOX RANCH OF MARTIN COUNTY D&I

Water Use Permit Status: MODIFICATION/RENEWAL

Environmental Resource Permit Status: PERMITTED (No. 43-00087-S)

Right Of Way Permit Status: NOT APPLICABLE

Location: MARTIN COUNTY, S28,29,32,33/T39S/R40E
S2,3,4/T40S/R40E
S17,19-21,28-33/T39S/R41E

Applicant's Name and Address: BOX RANCH OF MARTIN COUNTY LTD
7929 S W JACK JAMES DR
STUART, FL 34997

Purpose:

The purpose of this application is to renew and modify a Water Use Permit for Diversion and Impoundment into non-district facilities. Withdrawals are from the SFWMD Canal (C-44) via three existing withdrawal facilities.

This renewal includes the following modifications:

Total Acres: reduction to 7,429 acres (920 acre Trailside development and 2,115 acres owned by Armstrong removed).

Irrigated Acres: reduce citrus to 438 acres by removing 1,246 proposed acres never planted and converting 1,142 acres to turf, reduce improved pasture to 625 acres by removing 3,206 acres of unimproved pasture

Crops: add turf

Irrigation System: add sprinkler irrigation for turf areas

Allocation: reduce annual allocation from 3,598 million gallons per year (MGY) to 2,644 MGY
reduce maximum month allocation from 1,027 million gallons per month (MGM) to 347.7 MGM

Project Summary

Expiration Date: September 13, 2029
Water Use Classification: Diversion And Impoundment
 Agricultural
Total Serviced Acreage: 2,205 (50 acres of pasture)
 (75 acres of pasture)
 (88 acres of citrus)
 (107 acres of turf)
 (350 acres of citrus)
 (451 acres of turf)
 (500 acres of pasture)
 (584 acres of turf)
Sources: **Surface Water from:** SFWMD Canal (C-44)

Authorized Allocation:

Annual Allocation: 2,644 Million Gallons (MG)
Maximum Monthly Allocation: 347.7 Million Gallons (MG)

Existing Withdrawal Facilities - Surface Water

Source: SFWMD Canal (C-44)
 2 - 30" X 120 HP X 25000 GPM axial flow Pumps
 1 - 24" X 100 HP X 15000 GPM axial flow Pump

Rated Capacity

<u>Source</u>	<u>Status Code</u>	<u>GPM</u>	<u>MGM</u>	<u>MGY</u>
SFWMD Canal (C-44)	E	65,000	2,845.4	34,164
Totals:		65,000	2,845.4	34,164

Project Description

Box Ranch of Martin County operates a diversion and impoundment system in central Martin County (Exhibit 1) providing water for agricultural use. The permittee withdraws water from the C-44 Canal via 3 pumps (Exhibit 4) into a central conveyance canal called the Box Ranch Canal (see Exhibit 2). The Box Ranch Canal functions completely by gravity and ultimately discharges at the east end of the project under I-95 into the South Fork of the St. Lucie River. There are five secondary users within the diversion and impoundment project boundaries who have drainage and irrigation agreements with the permittee which authorizes withdrawals from the Box Ranch Canal. They are Sunlight Ranch POA, Box Ranch POA, Harmony Ranch (owned by Hobe Sound Ranch and Turtle Beach LTD), Dean Geyer and Cliff Burg Jr. (Exhibit 3). Geyer and Burg opted to be dependent secondary users whose water use is authorized by this diversion and impoundment permit. The remaining three users have obtained individual water use permits as independent secondary users of the Box Ranch diversion and impoundment system.

PERMIT HISTORY

The permit was first issued in November 1977 to Box Ranch with a total of 14,480 acres irrigating 600 acres of citrus and 13,880 acres of pasture using 3 pumps withdrawing from the C-44 canal with allocations of 5,740 MGY and 3,990 MGM. The permit expired in July 1987 and was re-issued in July 1989. The permit was for 8,657 total acres irrigating 600 acres of citrus and 7,192 acres of pasture with allocations of 5,445 MGY and 1,332 MGM. A portion of the original acreage (5,823 acres) was sold to Charles M. Armstrong and issued a new permit (43-00436-W). A Floridan aquifer well on the property was plugged and abandoned by SFWMD in August 1990. In October 1990, the permit was modified to increase the citrus acreage to 2,826 acres and reduce the pasture to 3,206 acres resulting in allocations of 3,598 MGY and 1,027 MGM. In November 2001, the permit was modified to add 1,807 non-irrigated acres owned by Hobe Sound Ranch LTD in the northeast part of the project. This property was part of the original 1977 permit acres but was not included in the re-issued 1989 permit.

Projected Water Use Demands

The recommended allocation (2,644 MGY and 347.7 MGM) was determined using the modified Blaney-Criddle formula for the irrigated acres within the diversion and impoundment system (Exhibits 5 and 6). The calculated volumes are consistent with historic pumpage records.

Pursuant to Limiting Condition 19, dependent secondary users must notify the permittee and the District of any changes in demands as a result of changes in crops or irrigated acres. The permit would then be reviewed to determine if a permit modification to adjust the allocation would be required.

Impact Assessments

Water Resource Availability

SFWMD Canal (C-44)

Land surface elevation at the project site is approximately 25 feet National Geodetic Vertical Datum (NGVD) in the western portions of the project and 20 feet NGVD at Harmony Ranch to the east. The permittee diverts water from the SFWMD Canal C-44 about 4 miles upstream of the S-80 lock and salinity control structure. Sources of recharge to the C-44 Canal are: rainfall, runoff, irrigation water return flow and surface water inflow from Lake Okeechobee. Water levels at the S-80 structure fluctuate approximately 1-2 feet from a wet season high of 14.5 feet NGVD to a dry season low of 12-13 feet NGVD in average years. The C-44 Canal has been as low as 10 feet NGVD in drought years. The C-44 Canal and Lake Okeechobee levels are the same when the S-308 structure and lock are open to Lake Okeechobee.

This is an existing project with no changes in operation in most areas and a reduction in withdrawals in one area. Based on historic data, the potential for harm to occur to the water resource availability of the C-44 Canal as a result of the continued withdrawal of the recommended allocation is considered to be minimal.

Existing Legal Users

SFWMD Canal (C-44)

This application is for a permit renewal. Therefore, the applicant is required to demonstrate that the allocation being renewed will not interfere with existing legal uses of the C-44 Canal that existed at the time the allocation, or portions of the allocation, were first authorized either through an original permit or permit modification. The nearest existing legal users withdrawing from the C-44 Canal are Hobe St. Lucie Conservancy District (Permit 43-00057-W, issued March 1977) which is located one mile downstream and Armstrong Properties (43-00436-W, issued September 1988) located two miles upstream.

This application is for the continuation of an existing, historically permitted use of water with no changes in source or withdrawal operations and no reported problems related to water resource availability. Based on observation of historic data, it is reasonable to assume that continued use of the C-44 canal will not result in the inability of an existing legal user to withdraw water, change the quality of the water to the extent that it can no longer be used for its authorized purpose, or prevent an existing legal user from meeting its permitted demands without exceeding the permitted allocation.

Saline Water Intrusion

SFWMD Canal (C-44)

The nearest surficial source of saline water to the project is the brackish South Fork of the St. Lucie River, downstream of structure S-80. The structure is located 4 miles downstream of the applicant's C-44 pumps in this project. Water levels in the C-44 Canal upstream of the S-80 structure are 10 feet NGVD or greater and the downstream elevations are less than 1 foot NGVD. Pursuant to Section 3.4(1), of the Basis of Review (BOR), the proposed use allows a groundwater divide (mound of fresh water) greater than one foot higher than the potentiometric head at the saline water source to exist between the withdrawal point and the saline water source.

This is an existing project with no changes in operation in most areas and a reduction in withdrawals in one area. It is reasonable to assume that the potential for lateral movement of saline water as a result of continued withdrawals from the C-44 Canal is minimal.

Wetlands

SFWMD Canal (C-44)

Category 1, 2 and 3 wetlands, as defined in Section 3.3.3 of the BOR, exist on the project site (Exhibit 7). They are located in the improved pasture areas and within reservoirs in the Sunlight Ranch citrus grove. The water levels in the withdrawal source, the C-44 Canal, do not impact the on-site wetland water levels.

This application is for the continuation of an existing, historical, permitted use of water with no changes in source or withdrawal operations, and no reported problems or harm to wetlands. Therefore, the potential for harm to occur to wetlands as a result of the recommended allocation is considered to be minimal.

Source Of Pollution

SFWMD Canal (C-44)

Based on review of Florida Department of Environmental Protection records, there are no known sources of pollution in the C-44 canal within the cone of influence of this project. Therefore, pursuant to Section 3.5 of the BOR, the use is not expected to result in altering the rate or direction of movement of pollutants, if present, to cause significant degradation of surface or groundwater quality through the induced movement of pollutants into a water resource that is not polluted.

Other Impacts

SFWMD Canal (C-44)

Pursuant to Section 3.6.2 of the BOR, 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), damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use, or land collapse or subsidence caused by reduction in water levels associated with consumptive use.

Facility Operation

The pumps are turned on and off manually on an as-needed / on-demand basis. There are no float switches. The canal is not maintained at a specific elevation. The secondary users can turn on the C-44 pumps when they anticipate withdrawing from the Box Ranch Canal.

Additional Information

CONDITIONS OF ISSUANCE

The recommended permit includes conditions of issuance that require the Applicant to furnish performance monitoring information to the District that includes:

- Limiting Condition 17, calibration of accounting method on each withdrawal facility
- Limiting Condition 18, recording and reporting monthly withdrawals from each withdrawal facility
- Limiting Condition 22, submission of a compliance report every five years
- Limiting Condition 23, submission of a reclaimed water feasibility report every five years

COMPLIANCE WITH LIMITING CONDITIONS

The applicant is currently in compliance with all conditions of the previously issued permit.

POTENTIAL USE OF RECLAIMED WATER

There are no nearby reuse facilities to provide reclaimed water supply. Therefore, the use of reclaimed water is technically infeasible for this project.

DEMONSTRATION OF NEED

Records available from the Martin County Property Appraiser demonstrate that Box Ranch of Martin County (the Applicant) maintains legal control over the project site. The withdrawal facilities are located on property owned by the Applicant. The land use designation for the properties within the diversion and impoundment system boundaries is agricultural, which is compatible with the citrus, turf and pasture activities.

WATER USE ACCOUNTING

Water use accounting is by log book. The flow from pumps 1 and 3 at varying heads in the C-44 canal was calibrated in January 2009. Calibrated flow from pump 2 will be collected when pump repairs are completed.

REGIONAL WATER AVAILABILITY

The nearest Lake Okeechobee Waterbody is the C-44 Canal (St. Lucie Canal), located immediately adjacent to the project boundary. This is an existing, permitted project for the maximum irrigated acres actively irrigated between April 1, 2001 and January 1, 2008. Therefore, pursuant to Section 3.2.1(G) of

Additional Information

the BOR, the requested allocation will not cause a net increase in the volume of water withdrawn from the C-44 Canal over the base condition water use.

COMPREHENSIVE EVERGLADES RESTORATION PLAN

The PALMAR Complex Natural Storage and Water Quality Area includes portions of the Box Ranch diversion and impoundment system area (see Exhibit 7). Approximately 1,800 acres of the Harmony Ranch project and 1,043 of mainly unimproved pasture owned by Box Ranch of Martin County lie within the footprint boundary of a proposed natural storage and water quality treatment area included in the Indian River Lagoon South Project Implementation Report Recommended Plan. The Recommended Plan calls for this land to be restored, to the extent possible, to the hydrologic and vegetative state which is thought to have been present in the pre-development and pre-drainage landscape. The water use authorized by this permit will not impact the plan.

PERMIT DURATION

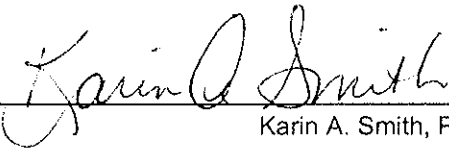
Pursuant to Section 1.7.2.2(B)(2), BOR, the St. Lucie River/Canal is a source of limited availability. Pursuant to Section 1.7.2.2(C)(3)(c) BOR, in reference to irrigation renewal permits with no change in historical irrigated acreage from a source of limited availability, the permit duration shall be 20 years. Staff recommend a permit duration of 20 years for this project.

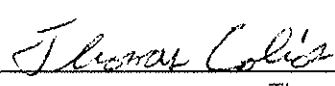
Recommendations

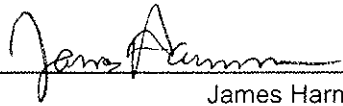
Project Name: BOX RANCH OF MARTIN COUNTY D&I
Application Number: 090206-16
Permit Number: 43-00087-W

Recommendations to Executive Director:

Staff recommends renewal and modification of Water Use Permit 43-00087-W for Diversion and Impoundment into non-district facilities. Withdrawals are from SFWMD Canal (C-44) via three existing withdrawal facilities. The use is reasonable-beneficial, will not interfere with any presently existing legal use of water and is consistent with the public interest. The use is further subject to 23 limiting conditions.

Application Reviewer:  Date: 8-10-09
Karin A. Smith, P.G.

Supervisor:  Date: 8/19/09
Thomas Colios

Water Use Division:  Date: 8/23/09
James Harmon, P.G.

Limiting Conditions

1. This permit shall expire on September 13, 2029.
2. Application for a permit modification may be made at any time.
3. Water use classification:

Diversion and Impoundment into Non-District Facilities.
Agricultural Irrigation

4. Source classification is:

Surface Water from:
SFWMD Canal (C-44)

5. Total annual allocation is 2644 MG.

Total maximum monthly allocation is 347.7273 MG.

These allocations represent the amount of water required to meet the water demands as a result of rainfall deficit during a drought with the probability of recurring one year in ten. The Permittee shall not exceed these allocations in hydrologic conditions less than a 1 in 10 year drought event. If the rainfall deficit is more severe than that expected to recur once every ten years, the withdrawals shall not exceed that amount necessary to continue to meet the reasonable-beneficial demands under such conditions, provided no harm to the water resources occur and:

(a) All other conditions of the permit are met; and

(b) The withdrawal is otherwise consistent with applicable declared Water Shortage Orders in effect pursuant to Chapter 40E-21, F.A.C.

6. Pursuant to Rule 40E-1.6105, F.A.C., Notification of Transfer of Interest in Real Property, within 30 days of any transfer of interest or control of the real property at which any permitted facility, system, consumptive use, or activity is located, the permittee must notify the District, in writing, of the transfer giving the name and address of the new owner or person in control and providing a copy of the instrument effectuating the transfer, as set forth in Rule 40E-1.6107, F.A.C.

Pursuant to Rule 40E-1.6107 (4), until transfer is approved by the District, the permittee shall be liable for compliance with the permit. The permittee transferring the permit shall remain liable for all actions that are required as well as all violations of the permit which occurred prior to the transfer of the permit.

Failure to comply with this or any other condition of this permit constitutes a violation and pursuant to Rule 40E-1.609, Suspension, Revocation and Modification of Permits, the District may suspend or revoke the permit.

This Permit is issued to:

Box Ranch of Martin County
7929 SW Jack James Drive
Stuart, FL 34997

7. Withdrawal Facilities:

Surface Water - Existing:

1 - 24" x 100 HP X 15000 GPM axial flow Pump

Limiting Conditions

2 - 30" x 120 HP X 25000 GPM axial flow Pumps

8. 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:

- (1) 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
 - (2) 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.
9. 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 caused by withdrawals, as determined through reference to the conditions for permit issuance, includes:

(1) 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.)

(2) Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or

(3) Land collapse or subsidence caused by reduction in water levels associated with consumptive use.

10. 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:

(1) Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface,

(2) Reduction in water levels that harm the hydroperiod of wetlands,

(3) Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,

(4) Harmful movement of contaminants in violation of state water quality standards, or

(5) Harm to the natural system including damage to habitat for rare or endangered species.

Limiting Conditions

11. If any condition of the permit is violated, the permit shall be subject to review and possible modification, enforcement action, or revocation.
12. Authorized representatives of the District shall be permitted to enter, inspect, and observe the permitted system to determine compliance with special conditions.
13. 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.
14. The permit does not convey any property right to the Permittee, nor any rights and privileges other than those specified in the Permit and Chapter 40E-2, Florida Administrative Code.
15. Permittee shall submit all data as required by the implementation schedule for each of the limiting conditions to: SFWMD, Environmental Resource Compliance, P.O. Box 24680, West Palm Beach, FL 33416-4680.
16. In the event of a declared water shortage, water withdrawal reductions will be ordered by the District in accordance with the Water Shortage Plan, Chapter 40E-21, F.A.C. The Permittee is advised that during a water shortage, pumpage reports shall be submitted as required by Chapter 40E-21, F.A.C.
17. Prior to the use of any proposed water withdrawal facility authorized under this permit, unless otherwise specified, the Permittee shall equip each facility with a District-approved operating water use accounting system and submit a report of calibration to the District, pursuant to Section 4.1, Basis of Review for Water Use Permit Applications.

In addition, the Permittee shall submit a report of recalibration for the water use accounting system for each water withdrawal facility (existing and proposed) authorized under this permit every five years from each previous calibration, continuing at five-year increments.

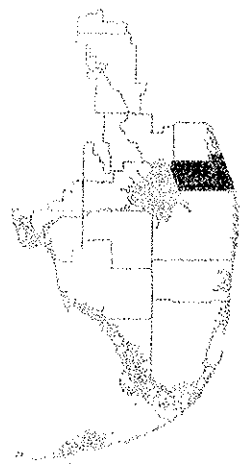
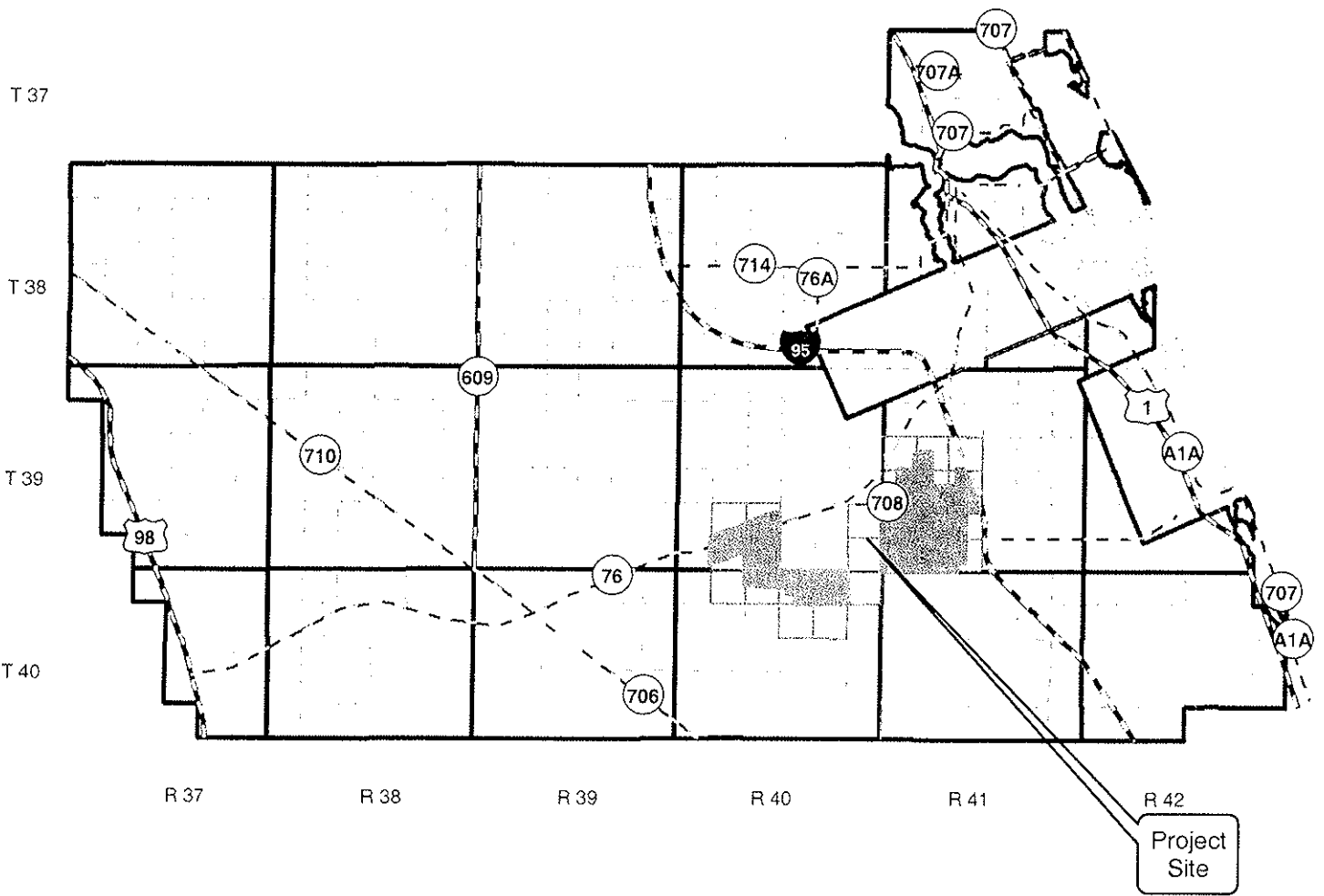
18. Monthly withdrawals for each withdrawal facility shall be submitted to the District quarterly. The water accounting method and means of calibration shall be stated on each report.
19. The Dependent secondary users listed herein must advise the District and the diversion and impoundment permittee prior to any change in demands.
20. Within 90 days of the diversion and impoundment permittee agreeing to the inclusion of a dependent secondary user consistent with the requirements in Section 2.7.3.A. of the Basis of Review for Water Use Applications (BOR), the diversion and impoundment permittee is responsible for submitting a request for a permit modification to the District to include the dependent secondary user.
21. The diversion and impoundment system permittee is responsible for all violations of diversion and impoundment permit terms, except the violations of the dependent secondary users.
22. Every five years from the date of permit issuance the permittee shall submit a water use compliance report for review and approval by District Staff, which addresses the following:
 1. The results of an on-site irrigation efficiency evaluation that estimates the efficient use of water on the project site, based on the method of irrigation that was permitted. Based on the evaluation, the permittee shall identify and implement specific actions to achieve the efficient use of water for the duration of the permit. In the event that based on the onsite irrigation efficiency evaluation an additional water allocation may be necessary, the permittee shall apply for a modification of the permit if the permittee intends to utilize an additional allocation, or modify its operation to comply with the existing conditions of the permit.
 2. A comparison of the permitted allocation and the allocation that would apply to the project based on current District allocation rules. In the event the permit allocation is greater than the allocation provided for under District rule, the permittee shall apply for a letter modification to reduce the allocation consistent with District rules. In the event that the permit allocation is less than allowable

Limiting Conditions

under District rule, the permittee shall apply for a modification of the permit to increase the allocation if the permittee intends to utilize an additional allocation, or modify its operation to comply with the existing conditions of the permit.



23. The permittee shall continue to investigate the feasibility of utilizing reclaimed water as an alternative water supply for this project. To this end, the permittee, or its successor, shall provide the District with periodic reclaimed water feasibility reports, to be submitted at five (5) year intervals commencing five years from date of permit issuance and continuing through the duration of this water use permit. Such reclaimed water feasibility reports shall evaluate the feasibility of utilizing reclaimed water and specifically consider:

- (1) whether a suitable reclaimed water supply source is available and permitted;
- (2) whether reclaimed water supply lines are available at the property boundary in sufficient capacity to serve permittee's needs;
- (3) whether the permittee is capable of accessing the reclaimed water source through distribution lines;
- (4) whether use of reclaimed water is technically, environmentally, and economically feasible; and
- (5) whether use of reclaimed water would conflict with requirements contained in permittee's surface water drainage permit, if appropriate.



MARTIN COUNTY, FLORIDA

Legend

-  Application
-  Application Sections

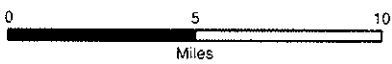


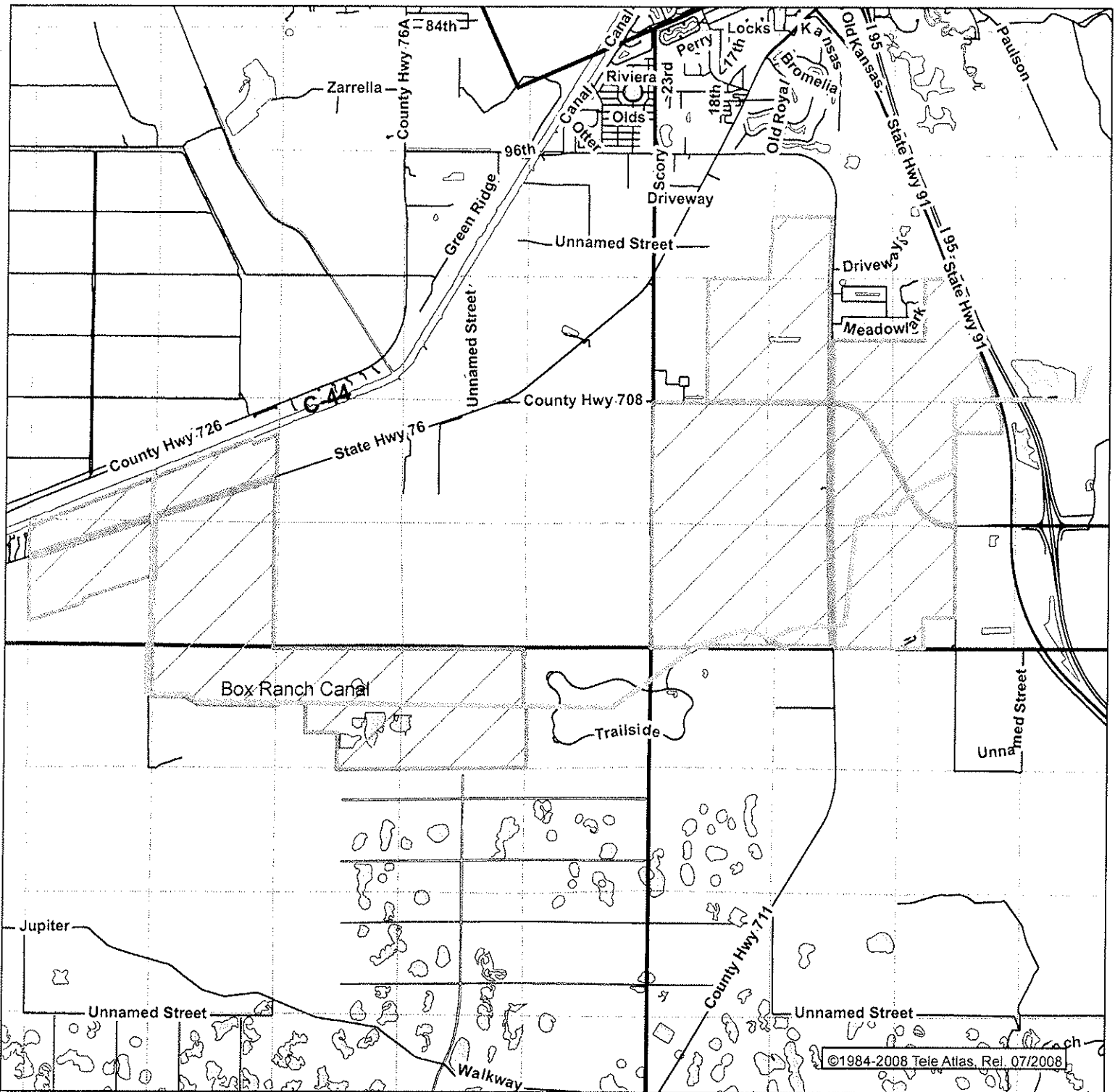
Map Date: 8/4/2009

Application Number: 090206-16

Permit Number: 43-00087-W

Project Name: BOX RANCH OF MARTIN COUNTY D&I





MARTIN COUNTY, FLORIDA

Legend

 Application

Map Date: 8/4/2009

Application Number: 090206-16

Permit Number: 43-00087-W

Project Name: BOX RANCH OF MARTIN COUNTY D&I

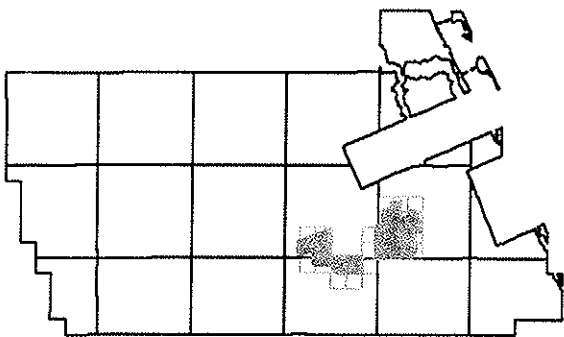


TABLE - B

Description Of Surface Water Pumps

Application Number: 090206-16

Pump ID	37099	37100	37101
Name	P1 (West)	P2 (West)	P3 (East)
Map Designator Facility Group	Diesel (west)	P2 (west)	Electric (East)
Existing/Proposed Pump Type	E axial flow	E axial flow	E axial flow
Diameter(Inches)	30	30	24
Pump Capacity(GPM)	25,000	25,000	15,000
Pump Horse Power	120	120	100
Two Way Pump ?	N	N	N
Elevation (ft. NGVD)	8	8	8
Planar Location			
Source	Migrate	Migrate	Migrate
Feet East	867042	867045	867075
Feet North	987821	987819	987817
Accounting Method	log book	log book	log book
Use Status	Production	Production	Production
Water Use Type	Irrigation	Irrigation	Irrigation
Surface Water Body	SFWMD Canal (C-44)	SFWMD Canal (C-44)	SFWMD Canal (C-44)

Exhibit No: 4

Summary Of Water Use Demands & Recommended Allocation Components

Application Number: 090206-16

Irrigation - Crops

Description	Acres	Rec. Unit Demand (gallons)	Recommended Demands--			Delivery System Efficiency	Recommended Alloca	
			Avg. Daily MGD	Peak Factor	Max Monthly MGM		Daily MGD	Max. Monthly MGM
BOX RANCH POA CITRUS	88	2,063	0.1816	2.2668	12.5194	85%	0.2143	14.7729
BOX RANCH POA TURF	584	2,400	1.4018	1.6771	71.5088	75%	1.8224	92.9614
BOX RANCH TURF	107	2,400	0.2568	1.6771	13.1018	75%	0.3339	17.0323
BURG PASTURE	50	1,564	0.0782	1.7983	4.2761	50%	0.1564	8.5523
GEIGER PASTURE	75	1,564	0.1173	1.7983	6.4142	50%	0.2345	12.8284
HARMONY PASTURE	500	1,564	0.7818	1.7983	42.7613	50%	1.5635	85.5225
SUNLIGHT CITRUS	350	2,160	0.7560	1.4545	33.4488	50%	1.5121	66.8976
SUNLIGHT RANCH TURF	451	2,400	1.0826	1.6771	55.2234	75%	1.4073	71.7904

Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart
IRRIGATION SYSTEM Flood/Seepage
PARCEL ACREAGE: 75
LAND USE: Agricultural
CROP: Pasture
SOIL TYPE: 0.8
PARCEL NAME: GEIGER PASTURE
IRR. MULTIPLIER 2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MEAN RAINFALL	2.40	2.72	3.57	2.76	4.95	6.58	6.53	5.71	8.05	6.69	2.83	2.56	55.35
EVAPOTRANSPIRATION	1.79	2.30	3.23	4.08	5.16	4.26	4.80	4.81	3.83	3.33	2.34	1.80	41.73
AVG. EFFECTIVE RAIN	1.08	1.25	1.68	1.40	2.48	3.01	3.08	2.75	3.49	2.90	1.30	1.15	25.58
DROUGHT RAINFAL	0.88	1.01	1.36	1.13	2.01	2.44	2.49	2.23	2.83	2.35	1.05	0.93	20.71
AVERAGE IRRIGATION	0.70	1.05	1.55	2.68	2.68	1.25	1.72	2.06	0.34	0.43	1.04	0.65	16.15
DROUGHT IRRIGATION	0.91	1.29	1.87	2.95	3.15	1.82	2.31	2.58	1.00	0.98	1.29	0.87	21.02

ANNUAL SUPPLEMENTAL CROP REQUIREMENT: 21.02 INCHES

ANNUAL SUPPLEMENTAL CROP WATER USE:

21.02 IN X 75 AC X 2 X 0.02715 MG/AC-IN = 85.60MG

MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 3.15 INCHES

MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:

3.15 IN X 75 AC X 2 X 0.02715 MG/AC-IN 12.83 MG

Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart
IRRIGATION SYSTEM Sprinkler
PARCEL ACREAGE: 107
LAND USE: Agricultural
CROP: Turf
SOIL TYPE: 1.5
PARCEL NAME: BOX RANCH TURF
IRR. MULTIPLIER 1.3

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MEAN RAINFALL	2.40	2.72	3.57	2.76	4.95	6.58	6.53	5.71	8.05	6.69	2.83	2.56	55.35
EVAPOTRANSPIRATION	1.91	2.19	3.75	5.09	6.64	7.40	7.88	7.55	6.41	4.96	3.19	2.25	59.22
AVG. EFFECTIVE RAIN	1.28	1.46	2.02	1.73	3.15	4.19	4.28	3.75	4.71	3.71	1.59	1.38	33.25
DROUGHT RAINFAL	1.04	1.18	1.64	1.40	2.55	3.39	3.47	3.04	3.82	3.01	1.29	1.12	25.95
AVERAGE IRRIGATION	0.63	0.73	1.73	3.36	3.49	3.21	3.60	3.80	1.70	1.25	1.60	0.87	25.97
DROUGHT IRRIGATION	0.87	1.01	2.11	3.69	4.09	4.01	4.41	4.51	2.59	1.95	1.90	1.13	32.27

ANNUAL SUPPLEMENTAL CROP REQUIREMENT: 32.27 INCHES

ANNUAL SUPPLEMENTAL CROP WATER USE:

32.27 IN X 107 AC X 1.3 X 0.02715 MG/AC-IN = 121.87MG

MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 4.51 INCHES

MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:

4.51 IN X 107 AC X 1.3 X 0.02715 MG/AC-IN 17.03MG

Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart
 IRRIGATION SYSTEM: Micro-Sprinkler
 PARCEL ACREAGE: 88
 LAND USE: Agricultural

CROP: Citrus
 SOIL TYPE: 1.5
 PARCEL NAME: BOX RANCH POA CITRUS
 IRR. MULTIPLIER: 1.18

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MEAN RAINFALL	2.40	2.72	3.57	2.76	4.95	6.58	6.53	5.71	8.05	6.69	2.83	2.56	55.35
EVAPOTRANSPIRATION	2.45	2.53	3.49	4.20	5.24	5.71	6.08	5.89	5.16	4.27	3.19	2.61	50.82
AVG. EFFECTIVE RAIN	1.32	1.48	1.99	1.85	2.91	3.82	3.87	3.41	4.39	3.57	1.59	1.41	31.41
DROUGHT RAINFALL	1.07	1.20	1.61	1.34	2.36	3.09	3.13	2.76	3.56	2.89	1.29	1.14	25.44
AVERAGE IRRIGATION	1.13	1.05	1.50	2.55	2.33	1.89	2.21	2.48	0.77	0.70	1.60	1.20	19.41
DROUGHT IRRIGATION	1.38	1.33	1.88	2.86	5.24	2.62	2.95	3.13	1.60	1.38	1.90	1.47	27.74

ANNUAL SUPPLEMENTAL CROP REQUIREMENT: 27.74 INCHES

ANNUAL SUPPLEMENTAL CROP WATER USE:

27.74 IN X 88 AC X 1.18 X 0.02715 MG/AC-IN = 78.21 MG

MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 5.24 INCHES

MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:

5.24 IN X 88 AC X 1.18 X 0.02715 MG/AC-IN = 14.77 MG

Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart
 IRRIGATION SYSTEM: Flood/Seepage
 PARCEL ACREAGE: 50
 LAND USE: Agricultural

CROP: Pasture
 SOIL TYPE: 0.8
 PARCEL NAME: BURG PASTURE
 IRR. MULTIPLIER: 2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MEAN RAINFALL	2.40	2.72	3.57	2.76	4.95	6.58	6.53	5.71	8.05	6.69	2.83	2.56	55.35
EVAPOTRANSPIRATION	1.79	2.30	3.23	4.08	5.16	4.26	4.80	4.81	3.83	3.33	2.34	1.80	41.73
AVG. EFFECTIVE RAIN	1.09	1.25	1.68	1.40	2.48	3.01	3.08	2.75	3.49	2.90	1.30	1.15	25.58
DROUGHT RAINFALL	0.88	1.01	1.36	1.13	2.01	2.44	2.49	2.23	2.83	2.35	1.05	0.93	20.71
AVERAGE IRRIGATION	0.70	1.05	1.55	2.68	2.68	1.25	1.72	2.06	0.34	0.43	1.04	0.65	16.15
DROUGHT IRRIGATION	0.91	1.29	1.87	2.95	3.15	1.82	2.31	2.58	1.00	0.98	1.29	0.87	21.02

ANNUAL SUPPLEMENTAL CROP REQUIREMENT: 21.02 INCHES

ANNUAL SUPPLEMENTAL CROP WATER USE:

21.02 IN X 50 AC X 2 X 0.02715 MG/AC-IN = 57.07 MG

MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 3.15 INCHES

MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:

3.15 IN X 50 AC X 2 X 0.02715 MG/AC-IN = 8.55 MG

Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart CROP: Pasture
IRRIGATION SYSTEM Flood/Seepage SOIL TYPE: 0.8
PARCEL ACREAGE: 500 PARCEL NAME: HARMONY PASTURE
LAND USE: Agricultural IRR. MULTIPLIER 2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MEAN RAINFALL	2.40	2.72	3.57	2.76	4.95	6.58	6.53	5.71	8.05	6.69	2.83	2.56	55.35
EVAPOTRANSPIRATION	1.79	2.30	3.23	4.08	5.16	4.26	4.80	4.81	3.83	3.33	2.34	1.80	41.73
AVG. EFFECTIVE RAIN	1.09	1.25	1.88	1.40	2.48	3.01	3.08	2.75	3.49	2.90	1.30	1.15	25.58
DROUGHT RAINFAL	0.88	1.01	1.36	1.13	2.01	2.44	2.49	2.23	2.83	2.35	1.05	0.93	20.71
AVERAGE IRRIGATION	0.70	1.05	1.55	2.68	2.68	1.25	1.72	2.06	0.34	0.43	1.04	0.65	16.15
DROUGHT IRRIGATION	0.91	1.29	1.87	2.95	3.15	1.82	2.31	2.58	1.00	0.98	1.29	0.87	21.02

ANNUAL SUPPLEMENTAL CROP REQUIREMENT: 21.02 INCHES
ANNUAL SUPPLEMENTAL CROP WATER USE: 570.69MG
21.02 IN X 500 AC X 2 X 0.02715 MG/AC-IN =
MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 3.15 INCHES
MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:
3.15 IN X 500 AC X 2 X 0.02715 MG/AC-IN 85.52MG

Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart CROP: Turf
IRRIGATION SYSTEM Sprinkler SOIL TYPE: 1.5
PARCEL ACREAGE: 584 PARCEL NAME: BOX RANCH POA TURF
LAND USE: Agricultural IRR. MULTIPLIER 1.3

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MEAN RAINFALL	1.91	2.19	3.75	5.09	6.64	7.40	7.88	7.55	6.41	4.96	3.19	2.25	59.22
EVAPOTRANSPIRATION	1.28	1.46	2.02	1.73	3.15	4.19	4.28	3.75	4.71	3.71	1.59	1.38	33.25
AVG. EFFECTIVE RAIN	1.04	1.18	1.64	1.40	2.55	3.39	3.47	3.04	3.82	3.01	1.29	1.12	26.95
DROUGHT RAINFAL	0.63	0.73	1.73	3.36	3.49	3.21	3.60	3.80	1.70	1.25	1.60	0.87	25.97
AVERAGE IRRIGATION	0.87	1.01	2.11	3.89	4.09	4.01	4.41	4.51	2.59	1.95	1.90	1.13	32.27

ANNUAL SUPPLEMENTAL CROP REQUIREMENT: 32.27 INCHES
ANNUAL SUPPLEMENTAL CROP WATER USE: 685.16MG
32.27 IN X 584 AC X 1.3 X 0.02715 MG/AC-IN =
MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 4.51 INCHES
MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:
4.51 IN X 584 AC X 1.3 X 0.02715 MG/AC-IN 92.96MG

Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart CROP: Pasture
IRRIGATION SYSTEM Flood/Seepage SOIL TYPE: 0.8
PARCEL ACREAGE: 500 PARCEL NAME: HARMONY PASTURE
LAND USE: Agricultural IRR. MULTIPLIER 2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MEAN RAINFALL	2.40	2.72	3.57	2.76	4.95	6.58	6.53	5.71	8.05	6.69	2.83	2.56	55.35
EVAPOTRANSPIRATION	1.79	2.30	3.23	4.08	5.16	4.26	4.80	4.81	3.83	3.33	2.34	1.80	41.73
AVG. EFFECTIVE RAIN	1.09	1.25	1.88	1.40	2.48	3.01	3.08	2.75	3.49	2.90	1.30	1.15	25.58
DROUGHT RAINFAL	0.88	1.01	1.36	1.13	2.01	2.44	2.49	2.23	2.83	2.35	1.05	0.93	20.71
AVERAGE IRRIGATION	0.70	1.05	1.55	2.68	2.68	1.25	1.72	2.06	0.34	0.43	1.04	0.65	16.15
DROUGHT IRRIGATION	0.91	1.29	1.87	2.95	3.15	1.82	2.31	2.58	1.00	0.98	1.29	0.87	21.02

ANNUAL SUPPLEMENTAL CROP REQUIREMENT: 21.02 INCHES
ANNUAL SUPPLEMENTAL CROP WATER USE: 570.69MG
21.02 IN X 500 AC X 2 X 0.02715 MG/AC-IN =
MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 3.15 INCHES
MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:
3.15 IN X 500 AC X 2 X 0.02715 MG/AC-IN 85.52MG

Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart CROP: Turf
IRRIGATION SYSTEM: Spinkler SOIL TYPE: 1.5
PARCEL ACREAGE: 451 PARCEL NAME: SUNLIGHT RANCH TURF
LAND USE: Agricultural IRR. MULTIPLIER 1.3

Table with 12 columns (JAN-DEC) and 13 rows (MEAN RAINFALL, EVAPOTRANSPIRATION, AVG. EFFECTIVE RAIN, DROUGHT RAINFAL, AVERAGE IRRIGATION, DROUGHT IRRIGATION, ANNUAL SUPPLEMENTAL CROP REQUIREMENT, ANNUAL SUPPLEMENTAL CROP WATER USE).

32.27 IN X 451 AC X 1.3 X 0.02715 MG/AC-IN = 513.68MG
MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 4.51 INCHES
MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:
4.51 IN X 451 AC X 1.3 X 0.02715 MG/AC-IN 71.79MG
TOTAL ANNUAL DEMAND: 2,644.18MG
TOTAL MAXIMUM MONTHLY DEMAND: 347.73MG

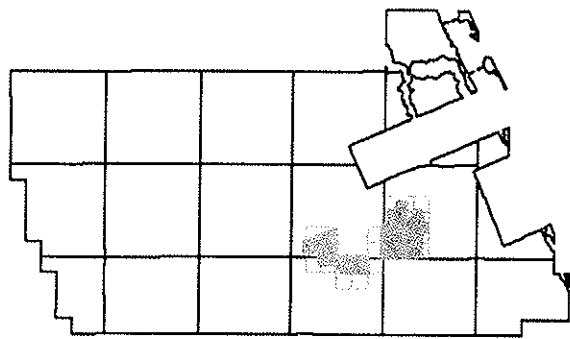
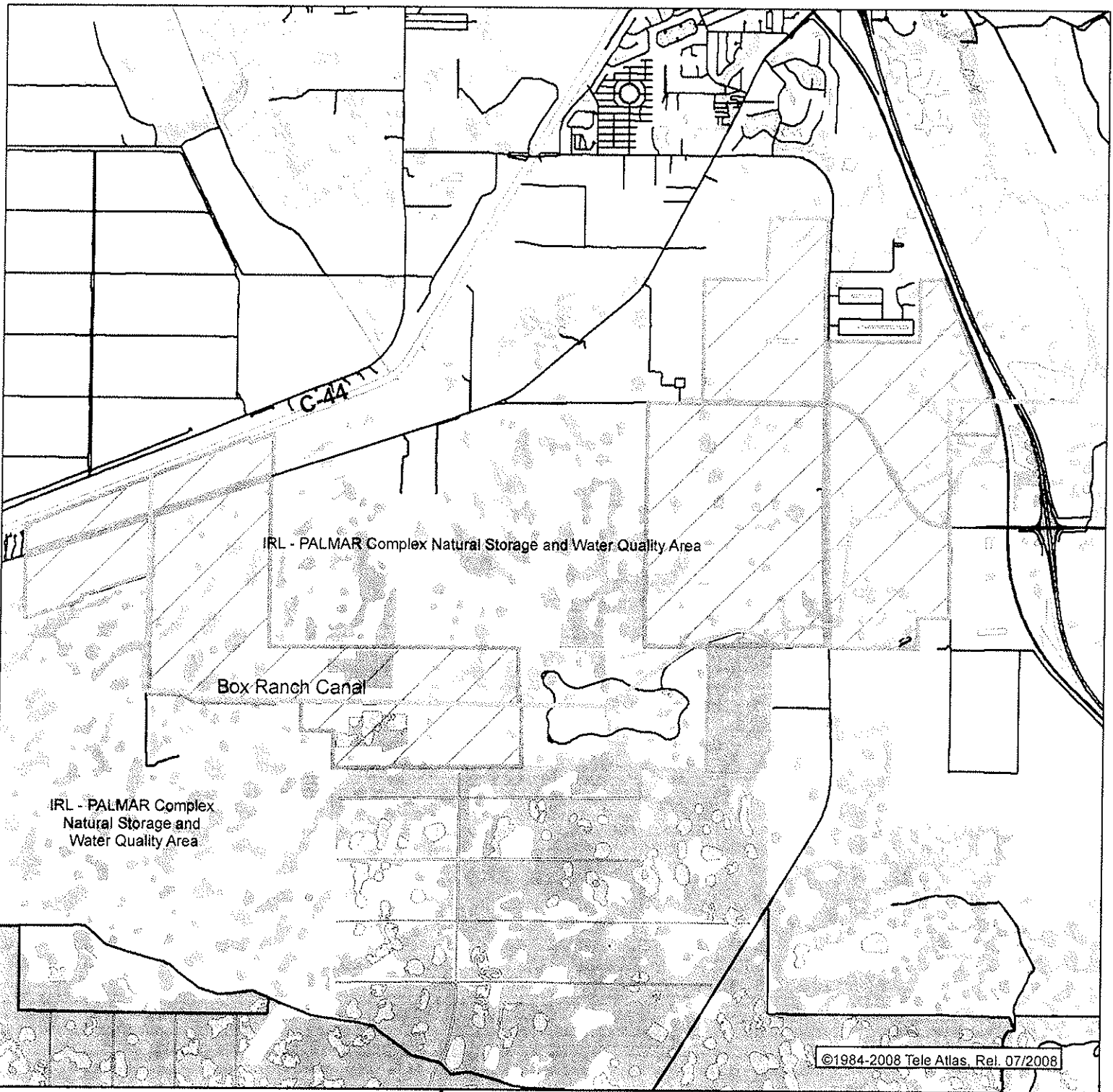
Calculations Of Irrigation Requirements

APPLICATION NUMBER: 090206-16

RAINFALL STATION: Stuart CROP: Citrus
IRRIGATION SYSTEM: Seepage/Furrow SOIL TYPE: 0.8
PARCEL ACREAGE: 350 PARCEL NAME: SUNLIGHT CITRUS
LAND USE: Agricultural IRR. MULTIPLIER 2

Table with 12 columns (JAN-DEC) and 13 rows (MEAN RAINFALL, EVAPOTRANSPIRATION, AVG. EFFECTIVE RAIN, DROUGHT RAINFAL, AVERAGE IRRIGATION, DROUGHT IRRIGATION, ANNUAL SUPPLEMENTAL CROP REQUIREMENT, ANNUAL SUPPLEMENTAL CROP WATER USE).




29.04 IN X 350 AC X 2 X 0.02715 MG/AC-IN = 551.91MG
MAXIMUM MONTHLY SUPPLEMENTAL CROP REQUIREMENT: 3.52 INCHES
MAXIMUM MONTHLY SUPPLEMENTAL CROP WATER USE:
3.52 IN X 350 AC X 2 X 0.02715 MG/AC-IN 66.90MG



Legend

2004-2005 Land Use Area - BOR 3.3.3

BOR 3.3.3 Wetlands

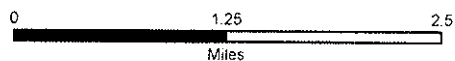
-  Category 1
-  Category 2
-  Category 3

 Application

Application Number: 090206-16

Permit Number: 43-00087-W

Project Name: BOX RANCH OF MARTIN COUNTY D&I



MARTIN COUNTY, FLORIDA



Map Date: 8/4/2009

Requirement by Limiting Condition Report

App No: 090206-16

Expiration Date: 13-SEP-29

Permit No: 43-00087-W

Project Name: BOX RANCH OF MARTIN COUNTY D&I

Issued Date:

Limiting Condition No:	Facility Name	Requirement Name	Due Date	Limiting Condition Code:	Start Date	End Date	Col Freq	Sub Freq
17	PUMP - P1 (West)	Calibration report for PUMP P1 (West)	31-DEC-14	WUSTD021-8	01-OCT-09	31-DEC-14	Every Five Years	Every Five Years
	PUMP - P2 (West)	Calibration report for PUMP P2 (West)	31-JAN-10		01-OCT-09	31-JAN-14	Every Five Years	Every Five Years
	PUMP - P3 (East)	Calibration report for PUMP P3 (East)	31-JAN-14		01-OCT-09	31-JAN-14	Every Five Years	Every Five Years
18	PUMP - P1 (West)	Monthly withdrawal for PUMP P1 (West)	31-DEC-09	WUSTD022-1	01-OCT-09	31-AUG-29	Monthly	Quarterly
	PUMP - P2 (West)	Monthly withdrawal for PUMP P2 (West)	31-DEC-09		01-OCT-09	31-AUG-29	Monthly	Quarterly
	PUMP - P3 (East)	Monthly withdrawal for PUMP P3 (East)	31-DEC-09		01-OCT-09	31-AUG-29	Monthly	Quarterly
22	PERMIT	Five-Year Compliance Report for PERMIT	30-SEP-14	WUJRR006-2	01-OCT-09	31-AUG-29	Every Five Years	Every Five Years
23	PERMIT	5-Year Reclaimed Water Feasibility Report for BOX RANCH OF MARTIN COUNTY D&I	30-SEP-14	WURWF004-1	01-OCT-09	31-AUG-29	Every Five Years	Every Five Years

STAFF REPORT DISTRIBUTION LIST

BOX RANCH OF MARTIN COUNTY D&I

Application No: 090206-16

Permit No: 43-00087-W

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Exhibit No:9