State of Florida

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Public Service Commission

-M-E-M-O-R-A-N-D-U-M-

DATE: June 8, 1997

TO: Division of Records and Reporting

FROM: Division of Water and Wastewater (Lingo)

RE: Docket No. 960288-SU, Application for approval of reuse project plan in Seminole County by Alafaya Utilities, Inc.

Please file the attached letter from Marty Friedman dated 5/30/97 and the accompanying partial responses to Staff's 5/08/97 data request in the above-referenced docket file. Thank you.

\FJL

Attachments: Letter from Friedman 5/30/97 w/partial responses to Staff's 5/08/97 data request

cc w/Attchs: Division of Water and Wastewater (Chase, McRoy, VonFossen, Xanders)
Division of Legal Services (Capeless)

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May 30, 1997

VIA HAND DELIVERY

Ms. Jennie Lingo
Florida Public Service Commission
Division of Water & Wastewater
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Alafaya Utilities, Inc.; Reuse Project Plan
Docket No. 960288-SU
Our File No. 30057.05

Dear Jennie:

Enclosed is a copy of a letter from Hartman & Associates, Inc. which responds to many of the questions raised in your May 8, 1997 correspondence to me. As you can see, some of the responses to your questions will be provided directly from Utilities, Inc. Utilities, Inc. has been unable to complete those responses and have asked that I request an extension of time through June 16, 1997 within which to forward that additional information to you.

Thank you for your continued courtesies in cooperation in this matter and please do not hesitate to contact me should you have any questions.

Very truly yours,

MARTIN S. FRIEDMAN
For the Firm

MSF/bsr
Enclosure
cc: Mr. Carl Wenz

PRINCIPALS:

James E. Christopher, P.E.
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May 23, 1997

HAI #95-533.00

Mr. Martin S. Friedman, Esquire
Rose, Sundstrom & Bentley
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Subject: Alafaya Utilities

Dear Mr. Friedman:

The following letter is to provide your office with the responses to the letter from the Public Service Commission to your office dated May 8, 1997 related to the Alafaya Utilities Reuse System Study.

Section 5.2 - Institutional Scenario

1. Response to be provided by Utilities, Inc.

2. It has been our experience that most institutional sites, such as parks, schools and other large green space areas have irrigation systems already in place. The majority of these sites utilize potable water from the local water purveyor for their irrigation supply. In a few cases, these sites may have their own private wells as water supply. It is our opinion that the owners of these sites would prefer to utilize reclaimed water at a much lower cost rather than use potable water supply and, as such, continue to pay potable water rates.

   To the best of our knowledge, alternative supplies are not available. We are assuming that these sites utilize potable water for irrigation, or their own wells if irrigation is practiced.

3. This information is not available since we have not yet contacted the owners of these sites, and would only intend to do so after receiving the FDEP General reuse permit and PSC approval of our plans.

4. The usage rate per home value was estimated based on a review of data from several municipalities. Extensive residential reclaimed water systems are becoming more common, but accurate detailed information is difficult to obtain and in some cases is simply not recorded. Information provided by several municipalities has ranged from 600 gpd to over 1,000 gpd per home on the average. However, we are of the opinion and understand that usage is both site specific (i.e.: soil conditions) and a function of the unit resource cost ($/1,000 gallons). For example, the average usage rate in the City of Cape Coral is approximately 600 gpd/home, and the usage rate in the City of Port Orange is approximately 1,100 gpd/home. Therefore, it is our professional opinion that the Utility will charge a nominal or average flat rate for reuse water, and

500 gpd/home is an appropriate value for planning purposes. In many cases, the municipalities (utilities) do not meter the individual users. Therefore, the data provided for the reclaimed water systems are extremely general based on system-wide values. It should also be noted that individual use per home is a function of the type of irrigation use and practices. For example, it is our opinion that the usage will vary depending on whether the home has an in-ground central irrigation system or simply uses a hose-bibb and portable sprinkler devices.

Section 5.3 - Residential Reuse

1. This response was addressed above. Yes. However, the Water Management District (WMD) does not have specific data or State-wide specific criteria. Like other agencies, the WMD is continually collecting data as it become available.

2. Participation rates appear to vary depending on the timing of the installation of reuse lines related to the construction of the overall development. In addition, participation rats may vary depending upon the rate set for reclaimed water use. There are not many data bases (if any) similar to Alafaya Utilities. Systems such as Altamonte Springs, St. Petersburg and Cape Coral are not the same economic classification as is the general residential home in the Alafaya Utilities service area. Systems such as Altamonte Springs, Port Orange and Cocoa Beach have had participation rates noted higher than 50 percent. However, a large reclaimed water system like the Cape Coral system has only 50 percent participation. It is our professional opinion that assuming a 50 percent participation rate in a moderate to middle income area that is basically build-out in development minimizes the percent of error from the actual participation rate when this system is constructed. Again, these are only planning level estimates but are appropriate in our professional opinion..

3. Participation rates would more than likely be higher in Scenario #4 than in the other Scenarios. However, the difference would not be noticed by the Utility since the savings could only be noticed in distribution main savings. The costs for on-site WWTP facilities and off-site transmission mains would remain constant for any participation rate. In addition, please note that the participation rate does not vary the actual number of customers on the system. Therefore, the operating costs remain constant for varying participation rates. The participation rates would slightly affect the cost to benefit ratio in the other scenarios. However, please note that participation rates may actually be lower than 50 percent which would increase the cost per gallon and lower the actual cost to benefit ratio.

General

1. Response to be provided by Utilities, Inc.

2. A copy has been provided for your reference, please see Attached permit application.

3. Response to be provided by Utilities, Inc.

Accounting Schedules

1.(a) The analysis was based on equal annual manpower costs to operate the facility for the normal WWTP operations, excluding the reuse system, for all scenarios.

1.(b) The analysis was based on additional chlorine required for high level disinfection and additional power costs for the high service pumps.

1.(c) The analysis was based on 5 percent per year of the construction costs required for R & R. This value is based on our experience that mechanical equipment such as the pumps, tertiary filters and other associated equipment which typically have an average service life of 20 years.

2. Response to be provided by Utilities, Inc.

3. Response to be provided by Utilities, Inc.

4. Response to be provided by Utilities, Inc.

5. Response to be provided by Utilities, Inc.

6. Response to be provided by Utilities, Inc.

If you have any questions or comments, please do not hesitate to call Gerald Chancellor or me at any time.

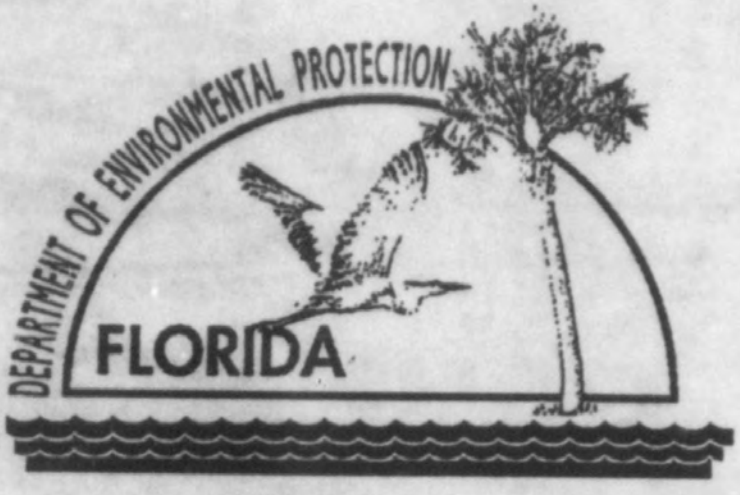
Very truly yours,

Hartman & Associates, Inc.

Gary J. ReVoir II, P.E.
Project Manager

GJR/lc/C-2/friedman.gjr

cc: Andy Dopuch, Utilities, Inc.
James Cameran, Utilities, Inc.
Harold E. Schmidt Jr., P.E., HAI
Gerald L. Chancellor, P.E., HAI



WASTEWATER PERMIT APPLICATION FORM 2A

FOR DOMESTIC WASTEWATER FACILITIES

WASTEWATER PERMIT APPLICATION FORM 2A

APPLICATION FOR A DOMESTIC WASTEWATER FACILITY PERMIT

TABLE OF CONTENTS

INSTRUCTIONS FOR FORM 2A

APPLICATION FOR A DOMESTIC WASTEWATER FACILITY PERMIT

GENERAL INSTRUCTIONS

1. Application for a domestic wastewater treatment facility permit, reuse or disposal system permit, limited wet weather discharge permit, residuals/septage management facility permit, or any combination thereof shall be made using this form and DEP Form 62-620.910(1). The appropriate number of copies of this form and DEP Form 62-620.910(1), with supporting documentation, and a check for the appropriate application fee made payable to the Department of Environmental Protection shall be submitted with this application as required by Rule 62-620.310, F.A.C.

2. Unless otherwise specified in the detailed instructions, each applicable item must be completed in full in order to avoid delay in processing. To indicate that each item has been considered, enter "NA" for not applicable, where a particular item does not fit the circumstances or characteristics of your facility.

3. All information must be typed or printed in ink.

4. Dates must be entered in MM/DD/YY format.

5. Some items in this form require narrative explanation. For this purpose, attach a separate sheet entitled "Additional Information." Where a separate sheet is used, identify the name of the applicant, the activity, and the section and item number of the form to which it refers. All other documents required by this application must be similarly identified.

SECTION 1. APPLICANT AND FACILITY DESCRIPTION

1. *Application Type*

   Indicate whether this application is for construction of new facilities, for substantial modification of existing facilities, or for renewal of an existing facility permit. As defined in Rule 62-620.200, F.A.C., substantial modification means a modification to the facility which is reasonably expected to lead to a substantially different environmental impact or which involves a substantially different type of wastewater or residuals treatment, reuse, or disposal system. A substantial modification includes changes in the characteristics of the effluent, reclaimed water, or residuals, changes to the location of the discharge, or changes in the permitted capacity of the treatment, reuse, or disposal system.

Application for minor modification of existing facilities shall be made on DEP Form 62-620.910(1). A minor modification means a modification to the facility which is not expected to lead to a substantially different environmental impact or which will not involve a substantially different type of wastewater or residuals treatment, reuse, or disposal system. A minor modification does not substantially change the characteristics of the effluent, reclaimed water, or residuals nor does it change the permitted capacity of the treatment, reuse, or disposal system. It includes construction to replace a unit operation or process structure. It also includes construction to unit operation or mechanical equipment which is not associated with routine facility maintenance.

2. *Facility Type* - Indicate whether this application is for a wastewater treatment facility, a reuse or disposal system, a limited wet weather discharge as defined in Rule 62-610.860, F.A.C., a residuals/septage management facility or some combination of the above. (i.e., If the application is for permit renewal of both treatment and disposal facilities, mark an "X" by the word "Treatment" and mark an "X" by the words "Reuse or Disposal". If the application is for construction of treatment facilities only, mark an "X" by the word "Treatment" only.)

3. *Treatment Facility Information* - Enter the requested information for the treatment facility which produces the effluent, reclaimed water, or residuals. Provide the name of the facility as it is officially or legally referred to in order to distinguish it from similar entities, if any, in the same geographical area. Do not use colloquial names as a substitute for the official name. Enter the facility's DEP identification number if the application is for an existing facility (i.e., either for permit renewal or modification). If the application is for a new facility, enter "NA" for the facility's DEP identification number. Enter the address where the facility is located as well as the mailing address of the facility. Enter the ownership status of the permittee.

4. *Applicant or Authorized Representative* - Enter the legal name of the applicant or authorized representative. The applicant or authorized representative is the person, agency, firm, or other entity which owns or is responsible for the wastewater facilities. Enter the name of the applicant as it is officially or legally referred to. Do not use colloquial names as a substitute for the official name. Next, enter the complete mailing address and telephone number of the applicant or authorized representative. This often will not be the same address as is used to designate the location of the wastewater facilities.

5. *Applicant's Authorized Agent* - Give the name, title, address, and telephone number of the person who is thoroughly familiar with the facts reported on the forms and who can be contacted by the DEP, EPA, or other agencies involved in permit application processing and review. The person named, although not necessarily the same as the signing official, is also subject to the provisions of the law quoted below the signature line on the first page of Section 9, Certifications.

6. *Project Name and Description* - For a new facility or a modification to an existing facility, provide the name and a general description of the project. The description should include the reason the project is needed and its relationship to existing facilities.

7. *Collection System Length* - Enter the length of the collection system associated with the wastewater treatment facility.

8. *Industrial Wastewater Contributions* - Enter the total estimated average daily wastewater flow from all industrial sources. All significant industrial users, as defined in Section 5, discharging to the facility must be listed in Section 5. Also indicate whether the facility has an approved pretreatment program, and if so, the name, address, and telephone number of the pretreatment program coordinator.

9. *Municipalities or Areas Served* - Enter the names of the municipalities or areas served by this facility and, for each, enter the best estimate of the actual population served at the time of this application. If there is another sewer authority discharging into this facility, give the name of that authority and the actual population it serves. Do not include the names of the municipalities or areas served by that sewer authority.

10. *Reclaimed Water Reuse and Effluent Disposal* - Enter the number of disposal points for each discharge to surface waters, the number of different types of reuse or land application systems used by the treatment facility, and the number of different underground injection well facilities used by the treatment facility. Reuse or land application systems are considered different types if they are permitted under different parts of Chapter 62-610, F.A.C. (i.e, slow rate restricted public access, rapid-rate, public access reuse system, etc.) Underground injection well systems are considered different facilities if they have different physical locations or distinct DEP identification numbers.

    For each method of reuse or disposal listed, provide the total design capacity and the basis of the design flow (e.g., annual average daily flow, maximum monthly average daily flow, three-month average daily flow). Intermittent discharges, such as from overflow or bypass points, and seasonal or periodic discharge points from lagoons, holding ponds, etc., should not be included in the flows provided in this item. Intermittent discharge information should be provided in Item 11. A separate Section 3.A., 3.B., or 3.C. must be completed for each reuse or disposal system identified.

11. *Number of Seasonal or Periodic Discharges* - Enter the number of seasonal or periodic discharge points for the facility. Seasonal or periodic discharges may result for a variety of reasons including wet weather conditions for reuse or land application systems and the need to conduct mechanical integrity tests for underground injection well systems. A separate Section 3.A. must be completed for each seasonal or periodic discharge point identified.

12. *Flows to Another Wastewater Facility* - Indicate whether any flows from the facility go into a collection/transmission system or reclaimed water distribution system controlled by another responsible organization. If no, go directly to Item 13. If yes, indicate the type of system and provide the name and mailing address of the responsible organization receiving the flow. If the flow is to more than one other system, provide the appropriate data of Items 6c, 6d, 6e, and 6f for each system on additional sheets. If the exact flows to these other systems are not known, provide best estimates.

13. *Residuals Use or Disposal* - Enter the average amount of residuals generated by the facility. This amount should be zero for Residuals Management Facilities that are not also wastewater treatment facilities. Indicate whether the facility receives residuals from other facilities for further treatment and disposal. If yes, complete Section 7 of this form. For each method of residuals use or disposal listed, enter the number of sites or number of receiving facilities and the average amount of residuals used or disposed of per year. The total amount of residuals used or disposed of should equal the total amount of residuals generated and received. If the method of use is land application, an Agricultural Use Plan or Dedicated Site Plan should be attached for each site. If the residuals are landfilled, incinerated, or transported to another treatment facility, the name, DEP identification number, and address of the receiving facility should be listed. Identify the treatment processes used by the receiving facility using the treatment codes listed in Table 1.

14. *Permits and Applications*

    a. If applicable, provide the expiration date of the current National Pollutant Discharge Elimination System permit.

    b. If applicable, provide the expiration date of the current DEP permit for this facility.

c. Provide the requested information for all existing environmental permits from Federal, State, and local agencies related to the facility or the proposed project. Also, provide the information for all environmental permits that have been applied for, are pending, or have been denied during the last 5 years.

d. For all currently effective orders and notices issued by Federal, State, and local agencies, provide the name of the issuing agency and the effective date of the order or notice.

SECTION 2. TREATMENT FACILITY DESCRIPTION

This section includes specific information about the treatment facilities. Complete a separate Section 2 for each current or proposed method of reuse or disposal identified in Section 1, Items 10 and 11 for which different levels of treatment are provided. The 4-digit serial numbers which are established in Sections 3. A.1., B.1., and C.1. and which correspond to the treatment facility description should be entered in the space provided at the top of each page of this section.

1. *Description* - Provide a brief narrative description of the treatment process. Example: Treatment consists of primary sedimentation using clarifiers, followed by biological treatment using activated sludge, followed by secondary clarification and chlorination. Residuals are treated by aerobic digestion and vacuum filtration. Residuals are disposed of by incineration.

2. *Treatment Codes* - Describe the wastewater treatment processes using the lettered codes which are listed in Table 1. As much as possible list the codes in the sequence in which the wastewater treatment processes are applied at this facility. Separate all codes with commas except where slashes are used to designate parallel operations.

3. Design Capacity of the Treatment Facility - Enter the current design capacity, the proposed incremental design capacity, and the proposed total design capacity in million gallons per day.

4. *Basis of Design Flow* - Enter the basis for the current design capacity, the proposed incremental design capacity, and the proposed total design capacity (e.g., annual average daily flow, maximum monthly average daily flow, three-month average daily flow) for the treatment facilities.

5. *Design Treatment Levels* - At a minimum, enter the range of pH and the 5-day CBOD and the TSS effluent concentrations and percent removals for which the plant is designed. Also provide the basis for the effluent concentrations (i.e., annual average, monthly average, and weekly average as defined in Chapter 62-620, F.A.C.). Design data for additional parameters may be required based on additional treatment requirements established in accordance with Department rules for reclaimed water or effluent disposal.

6. *Disinfection Level Provided* - Indicate the level of disinfection provided as specified in Rule 62-600.440, F.A.C. For the high-level alternative, see Rules 62-600.440(5)(g) and (h), F.A.C. Also, if the facility disinfects by chlorination and the discharge is to surface waters, indicate whether dechlorination is provided.

7. *Residuals Treatment* - Indicate which class criteria the residuals meet after treatment. For example, if the residuals will be distributed and marketed, Class AA should be checked and the residuals should meet the criteria in Rule 62-640.850, F.A.C. If this is an existing facility, provide the listed parameter concentrations and the date of the sample for the latest laboratory analysis. If the residuals will meet different class criteria, provide the information for each class on separate pages.

8. ***Reliability Class*** - Indicate the class of reliability provided by the treatment facility. Reliability shall be provided in accordance with Rule 62-600.400, F.A.C, as described in the EPA's 1974 publication entitled Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability, MCD-05. If other equivalent reliability is provided, the equivalent reliability features should be described in the preliminary design report or on a separate sheet entitled "Additional Information".

SECTION 3. REUSE OR EFFLUENT DISPOSAL SYSTEM DESCRIPTION

This section includes specific information required for the reuse or effluent disposal system. Complete a separate and appropriate Section 3.A., 3.B., or 3.C. for each current or proposed method of reuse or effluent disposal identified in Section 1, Items 10 and 11. Separate descriptions of each reuse or effluent disposal system are required even if the discharge or reuse system originates at the same treatment facility.

SECTION 3.A. DISCHARGES TO SURFACE WATERS (including wetlands)

1. ***Discharge Serial Number and Name*** - Assign a 4-digit number beginning with D001 for each point of discharge identified in Section 1, Items 10 and 11. Discharge serial numbers must be consecutive for each additional discharge described; hence, the second serial number would be D002, the third D003, etc. Enter this number at the top of each page of Section 3. A.

   Give the name of the discharge point which distinguishes this discharge point from all other discharge points from the facility (e.g., Ursus Creek Discharge; Varga STP Outfall Number 2). Do not use colloquial terms.

   If application for a permit was made previously for this discharge, supply the serial number which was previously assigned. If no, enter "NA".

2. ***Discharge Location*** - Provide the name of the county, the name of city or town (if applicable), and the name of the street where the point of discharge is located. If the discharge is not located on a named street, provide a description of the point of discharge. State the precise location where the effluent from the discharge reaches the waterway. If the discharge is to a dry waterway, give the point where the discharge enters the waterway.

3. ***Discharge Operating Dates*** - If the discharge has never occurred, but is planned for some future date, give the date the discharge will start. If the discharge is scheduled to be discontinued within the next 5 years, give the best estimated date the discharge will end and the reason for discontinuing the discharge. If the discharge is already in operation and is not scheduled to be discontinued within the next 5 years, enter "NA".

4. ***Design Capacity of the Outfall*** - For the outfall identified in Item 1 of this section, provide the current design capacity, the proposed incremental design capacity, and the proposed total design capacity in million gallons per day (mgd) to three decimal places.

5. ***Basis of Design Flow*** - Enter the basis for the current design capacity, the proposed incremental design capacity, and the proposed total design capacity (e.g., annual average daily flow, maximum monthly average daily flow, three-month average daily flow) for the outfall.

6. ***Basis for Effluent Limitations*** - Indicate how and when the effluent limitations were established for this discharge. Technology Based Effluent Limitation (TBEL) means a minimum wastewater treatment requirement, established by the Department, based on treatment technology. The minimum treatment requirements may be set at levels more stringent than that which is necessary to meet water quality standards of the receiving waterbody. TBELs for domestic wastewater treatment facilities are established in Chapter 62-600, Parts II and III. Water Quality Based Effluent Limitation (WQBEL) means an effluent limitation, which may be more stringent than a TBEL, that has been determined necessary by the Department to ensure that water quality standards in a receiving body of water will not be violated. WQBELs are established in accordance with the provisions of Chapter 62-650, F.A.C.

7. ***Discharge Point Description*** - Discharges into ditches or other water courses should be included in the category of a stream.

8. ***Receiving Waterbody Name*** - Provide the name of the waterbody as designated on a USGS map of the area. If the discharge is to an unnamed tributary, state and provide the name of the first body of water fed by that tributary which is named on the map (e.g., unnamed ditch to Vaughan Creek; unnamed ditch to Serpent River, where Serpent River is the first waterbody that is named on the map and is reached by the discharge).

10. ***Classification of Receiving Waterbody*** - Indicate the class of the receiving waterbody as defined in Chapter 62-302, F.A.C., and whether the receiving waterbody is an Outstanding Florida Water (OFW) or an Outstanding National Resource Water (ONRW). If yes, name the OFW or ONRW and locate on a USGS map.

11. ***Outfall Information*** - If the discharge is through an outfall that extends beyond the shoreline or is below the mean low water line, complete this item. If no, enter "NA". The discharge depth below water surface and the receiving water bottom depth below water surface should be provided for mean flow conditions.

13. ***Additional Information Required for Seasonal or Periodic Discharges*** - For each seasonal or periodic discharge identified in Section 1, Item 11, provide the frequency of the discharge. If the discharge is intermittent, from a holding pond, lagoon, etc., give the actual or approximate number. Also, provide the average duration and average volume of the discharge per incidence, and identify the months during the year when the discharge normally occurs. If the seasonal discharge is a limited wet weather discharge permitted in accordance with Rule 62-610.860, F.A.C., complete Item 14 of this section.

14. ***Additional Information Required for Limited Wet Weather Discharges Permitted in Accordance with Rule 62-610.860, F.A.C.*** - Information requirements in support of a limited wet weather discharge are contained in Rule 62-610.860, F.A.C. If all conditions specified in Rule 62-610.860, F.A.C., are met, a Water Quality Based Effluent Limitation (WQBEL) will not be needed for this discharge. For limited wet weather discharges permitted in accordance with Rule 62-610.860, F.A.C., a simulation of operation of the reuse, storage, and limited wet weather discharge system for an average rainfall year shall be included in the preliminary design report in addition to the information required by Rule 62-610.860(2), F.A.C. Also, a description of the gauging method and the facilities that will be used to measure stream flow in the receiving waterbody upstream of the point of discharge should be included in the report. The gaging station should be located on a USGS map.

15. ***Additional Information Required for Wetland Discharges*** - If the discharge is to a wetland, complete this item. Chapter 62-611, F.A.C., contains regulations for discharge of domestic wastewater to wetlands.

16. *Operational Data*

a. *Description of Influent and Effluent* - As required by Rule 62-601.300(1), F.A.C., influent data must be provided only for $CBOD_5$ and TSS; effluent data must be provided only for those parameters which have effluent limitations identified in the permit. For parameters which have effluent limitations identified in the permit and are not listed in the Table, enter the parameter names in the blank spaces provided. For each of the required parameters, enter in the appropriate box the value or code letter answer required. Values must be representative of the influent and effluent during the twelve preceding months of operation or represent best engineering estimates for proposed treatment or disposal systems. For facilities that have not been in operation for one year, data reported should represent the existing period of record with a note to that effect. Report in the units specified. Values do not need to be supplied in boxes that have been shaded.

In the column entitled "Effluent Frequency of Analysis", specify the frequency of analysis for each parameter as the number of analyses per number of days (e.g., 3/7 is equivalent to three analyses performed every 7 days). If continuous, enter "CONT". In the column entitled "Effluent Number of Analyses", specify the number of analyses performed during the previous 12 months of operation at the average frequency specified in the column entitled "Effluent Frequency of Analysis" up to 365. In the column entitled "Sample Type", specify "G" for grab samples, "C#" for composite samples, and "NA" if "CONT" was entered in the column entitled "Effluent Frequency of Analysis". The symbol "#" is to be replaced by the average number of hours over which the composite sample was collected (i.e., "C24" means twenty-four hour composite).

Sampling schedules, locations, and methodology shall be as specified in Rule 62-601.500, F.A.C. Sampling and testing methods shall be in accordance with Rule 62-601.400, F.A.C.

b. *Additional Wastewater Characteristics* - Indicate with "X" in the appropriate box those chemical constituents known to be present in the effluent based on any previous analyses, whether or not required by the Department, that have been performed on the effluent. Those constituents for which no previous analyses have been performed need not be indicated.

SECTION 3. B. REUSE AND LAND APPLICATION SYSTEMS

1. *Reuse or Land Application System Serial Number and Name* - Assign a 4-digit number beginning with R001 for each type of reuse or land application system identified in Section 1, Item 10. Reuse or land application system serial numbers must be consecutive for each additional reuse or land application system described; hence, the second reuse or land application system serial number would be R002, the third R003, etc. Enter this number at the top of each page of Section 3. B.

Give the name of the reuse or land application system which distinguishes this system from all other reuse or land application systems from the facility (e.g., Fairview Reuse System; Greenwood Reclaimed Water System Number 2). Do not use colloquial terms.

If application for a permit for this reuse or land application system was made previously, supply the previous reuse or land application system serial number assigned. If no, enter "NA".

2. *Reuse or Land Application System Location* - Provide the name of the county, the name of city or town (if applicable), and the name of the street where the reuse or land application system is located. If the reuse or land application system is not located on a named street, provide a description of the location of the reuse or land application system. Provide the latitude and longitude for the centroid of the reuse or land application site.

3. *Reuse or Land Application System Operating Dates* - If the reuse or land application system has never been placed into operation, but placing the system into operation is planned for some future date, give the date the reuse or land application system will be placed into operation. If the reuse or land application system is scheduled to be taken out of operation within the next 5 years, give the best estimated date the system will cease operation and the reason for taking the system out of operation. If the reuse or land application system is already in operation and is not scheduled to be taken out of operation within the next 5 years, enter "NA".

4. *Design Capacity of the Reuse or Land Application System* - For the reuse or land application system identified in Item 1 of this section, provide the current design capacity, the proposed incremental design capacity, and the proposed total design capacity in million gallons per day (mgd) to three decimal places.

5. *Basis of Design Flow* - Enter the basis for the current design capacity, the proposed incremental design capacity, and the proposed total design capacity (e.g., annual average daily flow, maximum monthly average daily flow, three-month average daily flow) for the reuse or land application system.

8. *Application Areas and Rates* - For each reuse or land application site used by the treatment facility, provide the area irrigated, the average application rate, and the site capacity. List major users (greater than or equal to 0.1 mgd), such as golf courses, separately. Locate all areas or sites receiving reclaimed water along with the overall reuse service area on the USGS map provided under Section 8., Item 1.c.

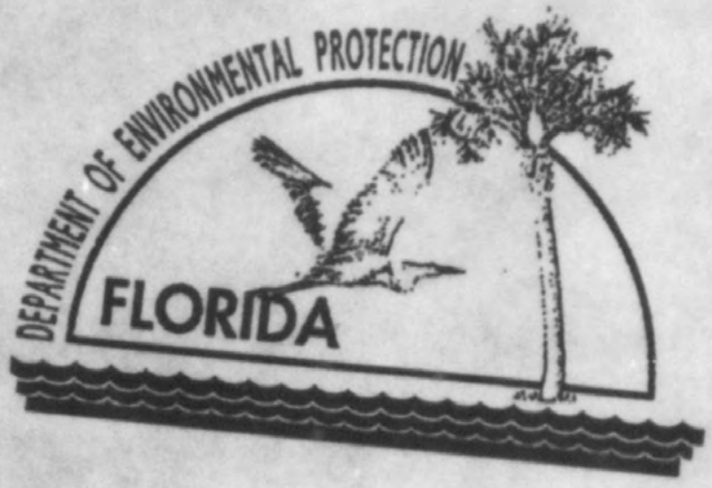
SECTION 3. C. GROUND WATER DISPOSAL BY UNDERGROUND INJECTION

If the proposed project includes ground water disposal by underground injection, application for construction or operation of the injection well shall be made on DEP Form 62-1.209(9). Application for treatment facilities for the injection well shall be made on this form.

1. *Underground Injection Well Facility Serial Number and Name* - Assign a 4-digit serial number beginning with U001 for each underground injection well facility identified in Section 1, Item 10. Underground injection well facility serial numbers must be consecutive for each additional underground injection well facility described; hence, the second underground injection well facility serial number would be U002, the third U003, etc. Enter this number at the top of each page of Section 3. C.

   Give the name of the underground injection well facility which distinguishes this injection well facility from all other underground injection well facilities (e.g., Mission Road Underground Injection Well Facility; Midway Injection Well System Number 2). Do not use colloquial terms.

   If application for a permit for this underground injection well facility was made previously, supply the previous underground injection well facility serial number assigned. If no, enter "NA".



WASTEWATER APPLICATION FORM 2A

PERMIT TO DISCHARGE WASTEWATER
FROM NEW OR EXISTING
DOMESTIC WASTEWATER FACILITIES

WASTEWATER APPLICATION FORM 2A

FOR A DOMESTIC WASTEWATER FACILITY PERMIT

Instructions for selected items are included in the "INSTRUCTIONS FOR FORM 2A". Refer to these instructions before filling out each item.

SECTION 1. APPLICANT AND FACILITY DESCRIPTION

1. **Application Type**

_____ New
__X__ Substantial Modification
_____ Permit Renewal

2. **Facility Type**

__X__ Wastewater Treatment
__X__ Reuse or Disposal
_____ Limited Wet Weather Discharge
_____ Residuals/Septage Management

3. **Treatment Facility Information**

a. Name — Alafaya Utilities, Inc.

b. Facility Identification Number — 3059 P00434

c. Location

Number and Street — 1067 McKinnon Avenue
City/State/Zip Code — Oviedo, FL 32765
Telephone — (407) 365-4346

Latitude — 28 ° 38 ' 24 "N
Longitude — 81 ° 11 ' 16 "W
Dates Coordinates Determined — 03 / 13 / 96
Method Used to Obtain Coordinates — USGS 7.5 Minute Series Topo Map

d. Ownership Type

_____ Municipal
_____ County
_____ State
__X__ Private

e. Contact

Name
Telephone

Donald Rasmussen
(407) 869-1919

f. Facility Mailing Address

Number and Street
City/State/Zip Code

200 Weathersfield Avenue
Altamonte Springs, FL 32714

g. Year Facility Began Operation — 1985

h. Year of Facility's Last Substantial Modification — 1991

4. **Applicant or Authorized Representative**

Legal Name — Donald Rasmussen
Number and Street — 200 Weathersfield Avenue
City/State/Zip Code — Altamonte Springs, FL 32714
Telephone — (407) 869-1919

5. **Applicant's Authorized Agent**

Name and Title — Gary J. ReVoir II, P.E.
Number and Street — 201 E. Pine St., Suite 1000
City/State/Zip Code — Orlando, FL 32801
Telephone — (407) 839-3955

6. **Project Name and Description**

Alafaya Utilities, Inc. WWTP Expansion of the Filters and Chlorine Contact Chamber from 0.5 MGD to 1.5 MGD. Public Access level reclaimed water transmission and distribution system. Reclaimed water is for commercial and residential public access irrigation.

7. **Collection System Length** ____________ miles

8. **Industrial Wastewater Contributions**

a. Average Daily Flow — N/A mgd

b. Does this facility have an approved pretreatment program? ___ Yes _X_ No

Coordinator Name — N/A
Number and Street — ____________
City/State/Zip Code — ____________
Telephone — (   )

9. **Municipalities or Areas Served**

Name of Municipality or Area	Population Served
Alafaya Woods, City of Oviedo	4,994
Twin Rivers, City of Oviedo	4,548
Miscellaneous Subdivisions, City of Oviedo	1,164
Total Population Served	10,706

10. **Reclaimed Water Reuse and Effluent Disposal**

Method of Reuse or Disposal	Number of Reuse or Disposal Points	Total Design Capacity (mgd)	Basis of Design Flow
Surface Waters - Excluding Ocean Outfalls and Wetlands (Rule 62-600.510, F.A.C.)			
Ocean Outfalls (Rule 62-600.520, F.A.C.)			
Wetlands (Rule 62-600.620, F.A.C.)			
Reuse of Reclaimed Water and Land Application (Rule 62-600.530, F.A.C.)	2[1][2]	2.500	Annual Avg. Daily Flow
Ground Water Disposal by Underground Injection (Rule 62-600.540, F.A.C.)			
Other (Describe.)			
Total Item 7			

11. **Number of Seasonal or Periodic Discharges** N/A

12. **Flows to Another Wastewater Facility**

a. Does part of the facility's flow go into a collection/transmission system or reclaimed water distribution system under another responsible organization? ___Yes _X_No

1. R001 - Existing permitted 1.000 MGD-AADF Rapid Rate Restricted Access Land Application System.
2. R002 - Existing permitted 0.100 MGD-AADF Slow Rate Public Access Land Application System to Ekana golf course, and proposed 1.500 MGD-AADF slow rate public access residential reuse system.

b. If yes, which one? _____ Collection/Transmission System
_____ Reclaimed Water Distribution System

c. Responsible Organization Receiving the Flow

Name: N/A
Number and Street:
City/State/Zip Code:

d. Name of Facility Which Receives the Flow: N/A

e. Facility Identification Number of Facility Which Receives the Flow: N/A

f. Average Daily Flow Discharged to the Receiving Facility: N/A mgd

13. Residuals Use or Disposal

a. Amount of Residuals Generated by the Facility: 174.3 dry tons/year

b. Does this facility receive residuals from another facility for further treatment and disposal? ___Yes _X_No

c. Method of Residuals Use or Disposal

Method	Number of Sites or Number of Receiving Facilities	Dry Tons Used or Disposed Per Year
Land Application (Chapter 62-640, F.A.C.)	2	174.3
Distribution and Marketing (Chapter 62-640, F.A.C.)		
Landfill Disposal (Chapter 62-701, F.A.C.)		
Incineration (Chapter 62-200 Series, F.A.C.)		
Transport to Another Treatment Facility		
Other (Describe.)		
	Total	174.3

d. If residuals are transported to another facility for landfill disposal, incineration, or treatment, provide the facility name, Facility identification number and address.

Name: N/A
Facility Identification Number:

Number and Street:
City/State/Zip Code:
County:
Telephone:

Treatment Codes for Receiving Facility:

14. Permits and Applications

a. Expiration Date of Current NPDES Permit: N/A / /

b. Expiration Date of Current DEP Permit: 03 / 11 / 01

c. Existing, Pending, or Denied Permits and Permit Applications

Issuing Agency	Permit Type	Permit Number	Date Filed	Date Issued	Date Denied	Date of Expiration
FDEP	OPER	FLA011074	/ /	3/19/96	/ /	3/11/01
FDEP	CON	DC59153085	1/19/89	/ /	/ /	4/15/91

d. Orders and Notices N/A

Type or Order or Notice	Issuing Agency	Date of Order or Notice
Notice or Violation		
Consent Order		
Administrative Order		
Other (Describe.)		

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Serial Number(s) R001

SECTION 2. TREATMENT FACILITY DESCRIPTION

1. **Description**

Wastewater treatment is accomplished by a number of unit processes including Pretreatment (bar screen)/Flow Equalization, Step Aeration, Clarification and Basic Disinfection. Treated effluent is land applied at a restricted public access rapid rate percolation pond system. Wastewater residuals are stabilized by aerobic digestion and ultimately land applied.

2. **Treatment Codes**

S ,	/ I ,	ASS ,	N ,	____
PG ,	/ ID ,	DA ,	XA ,	____
____ ,	____ ,	____ ,	____ ,	____
____ ,	____ ,	____ ,	____ ,	____
____ ,	____ ,	____ ,	____ ,	____

3. **Design Capacity of the Treatment Facility**

Current Design Capacity	2.4 mgd	(See Note 1)
Proposed Incremental Design Capacity	+ 0 mgd	
Proposed Total Design Capacity	= 2.4 mgd	

4. **Basis of Design Flow**

X Annual Average Daily Flow
____ Maximum Monthly Average Daily Flow
____ Three-Month Average Daily Flow
____ Other

If other, specify.

5. Design Treatment Levels

Parameter	Effluent Concentration	Units	Basis	Percent Removal
pH	6.0 - 8.5	Standard Units		
$CBOD_5$	20	mg/L	Annual Avg.	90%
TSS	20	mg/L	Annual Avg.	90%
Fecal Coliform (Ponds)	≤200	Fecal Value/100 ml		
NO_3	≤ 12.0	mg/L		
CL_2	≥ 0.5	mg/L	15 min contact @ PHF	

Note 1: This level of treatment produces effluent for disposal at the restricted access percolation pond system that is permitted at 1.00 MGD-AADF.

Serial Number(s) R001

6. **Disinfection Level Provided**

_____ Low-level
__X__ Basic (Ponds)
_____ Intermediate
_____ High-level
_____ High-level Alternative

If the facility disinfects by chlorination and the discharge is to surface waters, is dechlorination provided?

____ Yes ____ No

7. **Residuals Treatment**

a. Class of Residuals

_____ Class AA (Rule 62-640.850, F.A.C.)
_____ Class A (Rule 62-640.600, F.A.C.)
__X__ Class B (Rule 62-640.600, F.A.C.)
_____ Other

If other, describe.

_____
_____
_____

b. Parameter Concentrations

Total Nitrogen	1.26 % dry weight
Total Phosphorus	1.30 % dry weight
Total Potassium	0.69 % dry weight
Cadmium	' 9 mg/kg dry weight
Copper	1200 mg/kg dry weight
Lead	14 mg/kg dry weight
Nickel	11 mg/kg dry weight
Zinc	2900 mg/kg dry weight
pH	6.75 standard units
Total Solids	1.65 %
Other Parameters (Describe.)	

_____
_____
_____

Date of Sample

__11__ / __09__ / __95__

8. **Reliability Class**

_____ Class I
_____ Class II
__X__ Class III
_____ Other Equivalent Reliability

Serial Number(s) R002

SECTION 2. TREATMENT FACILITY DESCRIPTION

1. **Description**

Wastewater treatment is accomplished by a number of unit processes including Pretreatment (bar screen)/Flow Equalization, Step Aeration, Clarification, clarified effluent is filtered through rapid rate sand filters and receives high level disinfection. Treated effluent is utilized for public access irrigation at the Ekana Golf Club.

2. **Treatment Codes**

S,	/I,	ASS,	N,	PG/
FS,	PG,	IP,	DA,	XA

3. **Design Capacity of the Treatment Facility**

Current Design Capacity	0.5 mgd	(See Note 1)
Proposed Incremental Design Capacity	+ 1.0 mgd	
Proposed Total Design Capacity	= 1.5 mgd	

4. **Basis of Design Flow**

X Annual Average Daily Flow
_____ Maximum Monthly Average Daily Flow
_____ Three-Month Average Daily Flow
_____ Other

If other, specify.

5. Design Treatment Levels

Parameter	Effluent Concentration	Units	Basis	Percent Removal
pH	6.0 - 8.5	Standard Units		
$CBOD_5$	20	mg/L	Annual Avg.	90%
TSS (Reuse)	5.0	mg/L	Maximum	97.5%
Fecal Coliform (Reuse)	Below Detectable Limits	Fecal Value/100 ml	Over 30 day period, 75% below detectable limits 25 maximum, any one sample	
CL_2	≥ 1.0	mg/L	15 min contact @ PHF	

Note 1: Current Design Capacity of tertiary filters and high level disinfection facilities is 0.500 MGD. Current permitted capacity of the public access irrigation system is 0.100 MGD-AADF. This permit is for expansion of existing tertiary filter and high level disinfection facilities from 0.5 MGD to 1.5 MGD design capacity.

Serial Number(s) R002

6. **Disinfection Level Provided**

___ Low-level
___ Basic
___ Intermediate
X High-level
___ High-level Alternative

If the facility disinfects by chlorination and the discharge is to surface waters, is dechlorination provided?

___ Yes ___ No

7. **Residuals Treatment**

a. Class of Residuals

___ Class AA (Rule 62-640.850, F.A.C.)
___ Class A (Rule 62-640.600, F.A.C.)
X Class B (Rule 62-640.600, F.A.C.)
___ Other

If other, describe. ___

b. Parameter Concentrations

Total Nitrogen	1.26 % dry weight
Total Phosphorus	1.30 % dry weight
Total Potassium	0.69 % dry weight
Cadmium	1.9 mg/kg dry weight
Copper	1200 mg/kg dry weight
Lead	14 mg/kg dry weight
Nickel	11 mg/kg dry weight
Zinc	2900 mg/kg dry weight
pH	6.75 standard units
Total Solids	1.65 %
Other Parameters (Describe.)	___

Date of Sample 11 / 09 / 95

8. **Reliability Class**

___ Class I
___ Class II
X Class III
___ Other Equivalent Reliability

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Serial Number(s)_____

SECTION 3. A. DISCHARGES TO SURFACE WATERS (including wetlands) N/A

1. **Discharge Serial Number and Name**

Discharge Serial Number _____
Discharge Name _____
Previous Discharge Serial Number _____

2. **Discharge Location**

County _____
City or Town (if applicable) _____
Street or Description _____

Latitude ____° ____' ____"N
Longitude ____° ____' ____"W
Dates Coordinates Determined ____/____/____
Method Used to Obtain Coordinates _____

3. **Discharge Operating Dates**

Discharge Start Date ____/____/____
Discharge End Date ____/____/____

Reason for Discontinuing the Discharge _____

4. **Design Capacity of the Outfall**

Current Design Capacity _____ mgd
Proposed Incremental Design Capacity + _____ mgd
Proposed Total Design Capacity = _____ mgd

5. **Basis of Design Flow**

_____ Annual Average Daily Flow
_____ Maximum Monthly Average Daily Flow
_____ Three-Month Average Daily Flow
_____ Other

If other, specify. _____

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"N/A"

6. Basis for Effluent Limitations

Serial Number(s)_____

_____TBEL
_____Level I WQBEL
_____Level II WQBEL
_____Other

If other, specify.

Date Effluent Limitations Established

_____/ _____/ _____

7. Discharge Point Description

_____Ocean
_____Stream
_____Estuary
_____Lake
_____Wetland
_____Other

If other, specify.

8. Receiving Waterbody Name

9. Type of Receiving Waterbody

_____Fresh
_____Brackish or Marine

10. Classification of Receiving Waterbody

_____Class I
_____Class II
_____Class III
_____Class IV
_____Class V

Is the receiving waterbody contiguous to, or identified as, an Outstanding Florida Water (OFW) or an Outstanding National Resource Water?

___Yes ___No

If yes, name and locate on a USGS map.

11. Outfall Information

Description of Outfall and Diffuser

Construction Materials

Length From Shore

Diameter

Discharge Depth Below Water Surface

Receiving Water Bottom Depth Below Water Surface

_____ feet
_____ inches
_____ feet
_____ feet

"N/A"

12. Surface Water Improvement and Management (SWIM)

Serial Number(s)_____

a. Will the discharge affect any SWIM plan waterbodies?

___Yes ___No

b. If yes, name the waterbody.

_____

c. Has the SWIM plan been approved by a water management district and the Department?

___Yes ___No

d. If yes, attach documentation that the proposed discharge is consistent with the SWIM plan.

13. Additional Information Required for Seasonal or Periodic Discharges

Frequency
Duration
Volume
Occurrence

_____ Times Per Year
_____ Days
_____ Thousand Gallons Per Incident

	Jan		May		Sep
	Feb		Jun		Oct
	Mar		Jul		Nov
	Apr		Aug		Dec

14. Additional Information Required for Limited Wet Weather Discharges Permitted in Accordance with Rule 62-610.860, F.A.C.

a. Downstream Waterbody

Name of nearest downstream lake, estuary, reservoir, OFW, or Class I water. Show location on a USGS map.
Downstream Waterbody Description

_____

_____ Ocean
_____ Stream
_____ Estuary
_____ Lake
_____ Wetland
_____ Other

If other, specify.

_____

"N/A"

Serial Number(s)_____

Classification of Downstream Waterbody

_____ Class I
_____ Class II
_____ Class III
_____ Class IV
_____ Class V

Distance Downstream _____ miles

Average Flow Velocity During Anticipated Periods of Discharge _____ feet per second

Travel Time During Anticipated Periods of Discharge _____ hours

b. Rainfall Information

Rainfall Gauging Station Location _____

Period of Record Analyzed:
Beginning Year _____
Ending Year _____
Number of Years _____
Average Annual Rainfall _____ inches per year

c. Simulation of Operation of the Reuse, Storage, and Limited Wet Weather Discharge for an Average Rainfall Year

Year Simulated _____

Annual Rainfall During Average Year _____ inches

Number of Days Limited Wet Weather Discharge is Used During Average Rainfall Year (N) _____ days

Percent of the Days of the Year that the Limited Wet Weather Discharge will Occur During Average Rainfall Year (P) _____ %

Note:
P = [(N) / (365)] x 100%.
P cannot exceed 25% or be less than 1%.

d. Reclaimed Water Quality (maximum monthly average)

$CBOD_5$ _____ mg/L
TKN (as Nitrogen) _____ mg/L

"N/A"

Serial Number(s)____________

e. Minimum Acceptable Stream Dilution Factor (SDF) __________

Note:
$SDF = P(0.085 \times CBOD_5 + 0.272 \times TKN - 0.484)$
The values for $CBOD_5$ and TKN should be in terms of maximum monthly average limitations as provided in 14.d. above. The value of P should be as calculated in 14.c. above.

f. Adjusted Stream Dilution Factor __________

Note:
If the travel time shown in 14.a., above, is less than 24 hours, provide the adjusted minimum acceptable stream dilution factor.
Adjusted SDF = SDF x (24 hours)/(travel time in hours)

15. Additional Information Required for Wetland Discharges

a. Is the wetland a jurisdictional wetland (i.e. within the landward extent of waters as defined in Rule 62-301.400. F.A.C., or isolated and not owned entirely by one person, or owned entirely by the State)?

___Yes ___No

b. Will the wetland be used as a treatment wetland or receiving wetland?

_____Treatment
_____Receiving

If the wetland is to be used as a treatment wetland, attach documentation showing ownership or the applicant's legal interest in the treatment wetland.

c. If the wetland is to be used for treatment, identify the type.

_____Man-made
_____Hydrologically Altered
_____Unaltered

d. Is the wetland herbaceous or woody?

_____Herbaceous
_____Woody

e. Identify the classification of surface waters within the wetland.

_____Class I
_____Class II
_____Class III
_____Class IV
_____Class V

f. Are the waters within the wetland part of an OFW?

___Yes ___No

"N/A"

Serial Number(s)_____

16. Operational Data

a. Description of Influent and Effluent

	Influent	Effluent					
Parameter	Annual Average	Annual Average	Lowest Monthly Average	Highest Monthly Average	Frequency of Analysis	Number of Analyses	Sample Type
Flow mgd							
pH Units							
Fecal Coliform Bacteria Number/100 mL							
CBOD 5-day mg/L							
Chlorine Total Residual mg/L							
Total Suspended Solids mg/L							
Ammonia (as N) mg/L							
Kjeldahl Nitrogen mg/L							
Nitrate (as N) mg/L							
Total Phosphorus (as P) mg/L							
Dissolved Oxygen mg/L							

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"N/A"

Serial Number(s)_____

a. Description of Influent and Effluent (continued)

	Influent	Effluent					
Parameter	Annual Average	Annual Average	Lowest Monthly Average	Highest Monthly Average	Frequency of Analysis	Number of Analyses	Sample Type

b. Additional Wastewater Characteristics

Parameter	Present	Parameter	Present	Parameter	Present
Bromide		Cobalt		Thallium	
Chloride		Chromium		Titanium	
Cyanide		Copper		Tin	
Fluoride		Iron		Zinc	
Sulfide		Lead		Algicides*	
Aluminum		Manganese		Chlorinated Organic Compounds*	
Antimony		Mercury		Oil and Grease	
Arsenic		Molybdenum		Pesticides*	
Beryllium		Nickel		Phenols	
Barium		Selenium		Surfactants	
Boron		Silver		Radioactivity*	
Cadmium					

* Provide specific compound or element as "Additional Information", if known.

Serial Number(s) R001

SECTION 3. B. REUSE AND LAND APPLICATION SYSTEMS

1. Reuse or Land Application System Serial Number and Name

Reuse or Land Application System Serial Number	R001
Reuse or Land Application System Name	Perc Ponds
Previous Reuse or Land Application System Serial Number	

2. Reuse or Land Application System Location

County	Seminole
City or Town (if applicable)	Oviedo
Street or Description	Off of Mitchell Hammock Road near Lake Rogers
Latitude	28 o 39 , 15 "N
Longitude	81 o 11 , 15 "W
Dates Coordinates Determined	03 / 13 / 96
Method Used to Obtain Coordinates	USGS 7.5 Minute Series Topo Map

3. Reuse or Land Application System Operating Dates "N/A"

System Operation Start Date	/ /
System Operation End Date	/ /
Reason for Discontinuing System Operation	

4. Design Capacity of the Reuse or Land Application System

Current Design Capacity	1.0 mgd
Proposed Incremental Design Capacity	+ 0 mgd
Proposed Total Design Capacity	= 1.0 mgd

5. Basis of Design Flow

- X Annual Average Daily Flow
- ___ Maximum Monthly Average Daily Flow
- ___ Three-Month Average Daily Flow
- ___ Other

If other, specify.

6. Underdrains and Perimeter Ditches

a. Is the reuse or land application system underdrained? X(1) Yes ___ No

(1) Exterior underdrain system installed for percolation ponds #8 and #11 to prevent the movement of groundwater table to levels higher then that of the surrounding land surface. The approximately 200 LF of 6-inch diameter underdrain was installed along the outside west perimeter of pond #8, and approximately 550 LF along the outside south perimeter of pond #11.

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Serial Number(s) R002

SECTION 3. B. REUSE AND LAND APPLICATION SYSTEMS

1. **Reuse or Land Application System Serial Number and Name**

Reuse or Land Application System Serial Number	R002
Reuse or Land Application System Name	Ekana Golf Course Irrigation System
Previous Reuse or Land Application System Serial Number	

2. **Reuse or Land Application Syztem Location**

County	Seminole
City or Town (if applicable)	Oviedo
Street or Description	18 hole golf course off Lockwood Road in Twin Rivers Subdivision
Latitude	28 o 39 ' 15 "N
Longitude	81 o 10 ' 24 "W
Dates Coordinates Determined	03 / 13 / 96
Method Used to Obtain Coordinates	USGS 7.5 Minute Series Topo Map

3. **Reuse or Land Application System Operating Dates** "N/A"

System Operation Start Date	___ / ___ / ___
System Operation End Date	___ / ___ / ___
Reason for Discontinuing System Operation	

4. **Design Capacity of the Reuse or Land Application System**

Current Design Capacity	0.100 mgd
Proposed Incremental Design Capacity	+ 1.400 mgd
Proposed Total Design Capacity	= 1.500 mgd

5. **Basis of Design Flow**

X Annual Average Daily Flow
___ Maximum Monthly Average Daily Flow
___ Three-Month Average Daily Flow
___ Other

If other, specify. ___

6. **Underdrains and Perimeter Ditches**

a. Is the reuse or land application system underdrained? ___ Yes X No

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b. Are perimeter ditches used?

____Yes __X__No

If yes, will they be excavated to a depth which will intersect the seasonal high ground water table or the ground water mound during any portion of the year?

____Yes ____No

7. Type of Reuse or Land Application System

_____Slow-rate land application system/restricted public access (Chapter 62-610, F.A.C., Part II)
_____Slow-rate land application system/public access areas, residential irrigation, and edible crop irrigation (Chapter 62-610, F.A.C., Part III)
__X__Rapid-rate land application system (Chapter 62-610, F.A.C., Part IV)
_____Absorption field system (Chapter 62-610, F.A.C., Part V)
_____Overland flow system (Chapter 62-610, F.A.C., Part VI)
_____Other land application system with additional levels of preapplication treatment (Rule 62-610.660, F.A.C.)
_____Other land application system with lower levels of preapplication treatment (Rule 62-610.670, F.A.C.)

8. Application Areas and Rates

Site/Use Type/Major User	Area (acres)	Rate (inches/week)	Capacity (mgd)
Mitchell Hammock Road (1.8 mi. from WWTP)/Perc. Ponds	19		1.0
Total			1.0

9. Additional Information Required for Reuse Systems Permitted Under Part III of Chapter 62-610, F.A.C. N/A

a. Areas Irrigated

_____Residential lawns
_____Golf courses
_____Cemeteries
_____Parks, playgrounds
_____Landscape areas
_____Highway medians, rights-of-way
_____Edible crops
_____Others

If other, specify.

_____

b. Are perimeter ditches used? ___Yes _X_No

If yes, will they be excavated to a depth which will intersect the seasonal high ground water table or the ground water mound during any portion of the year? ___Yes ___No

7. Type of Reuse or Land Application System

_____Slow-rate land application system/restricted public access (Chapter 62-610, F.A.C., Part II)
_X_Slow-rate land application system/public access areas, residential irrigation, and edible crop irrigation (Chapter 62-610, F.A.C., Part III)
_____Rapid-rate land application system (Chapter 62-610, F.A.C., Part IV)
_____Absorption field system (Chapter 62-610, F.A.C., Part V)
_____Overland flow system (Chapter 62-610, F.A.C., Part VI)
_____Other land application system with additional levels of preapplication treatment (Rule 62-610.660, F.A.C.)
_____Other land application system with lower levels of preapplication treatment (Rule 62-610.670, F.A.C.)

8. Application Areas and Rates

Site/Use Type/Major User	Area (acres)	Rate (inches/week)	Capacity (mgd)
Ekana Golf Course/Public Access Land Application			0.100
Total			0.100

9. Additional Information Required for Reuse Systems Permitted Under Part III of Chapter 62-610, F.A.C.

a. Areas Irrigated

_X_ Residential lawns
_X_ Golf courses
_X_ Cemeteries
_X_ Parks, playgrounds
_X_ Landscape areas
_X_ Highway medians, rights-of-way
_____ Edible crops
_____ Others

If other, specify. _____

Serial Number(s) R001

b. Other Uses of Reclaimed Water

_____ Toilet flushing
_____ Fire protection
_____ Construction dust control
_____ Aesthetic purposes (decorative ponds, fountains, etc.)
_____ Others

If other, specify. _____

c. How many hours per day, seven days per week, is or will an operator be on-site at the wastewater treatment facility?

16 hours per day - Class C or higher
8 hrs/day - 5 days/wk - Class B or higher

If the treatment facility is or will be staffed by an operator less than 24 hrs/day, describe the additional levels of reliability included within the treatment or reuse systems. (See Rule 62-610.462, F.A.C.)

Reclaimed Water will only be discharged offsite when operators are present

d. For permit renewals, list the dates on which the operating protocols (as described in Rule 62-610.463, F.A.C.) were submitted to the Department and the date of the Department's approvals during the last five years.

Date Submitted	Date Approved
/ /	/ /
/ /	/ /
/ /	/ /
/ /	/ /

e. For each site where edible crops are or will be irrigated with reclaimed water, describe the crops grown; the type of application system used; provisions for crop washing and for processing, if any; and provisions for control of public access, if any. (See Rule 62-610.475, F.A.C.)

N/A

DEP Form 62-620.910(3)
Effective November 29, 1994
J:\W\dt\M3\Form2.jjw\HAI#96-013.00

b. Other Uses of Reclaimed Water

_____ Toilet flushing
_____ Fire protection
_____ Construction dust control
_____ Aesthetic purposes (decorative ponds, fountains, etc.)
_____ Others

If other, specify.

_____

c. How many hours per day, seven days per week, is or will an operator be on-site at the wastewater treatment facility?

16 hours per day - Class C or higher
8 hrs/day - 5 days/wk - Class B or higher

If the treatment facility is or will be staffed by an operator less than 24 hrs/day, describe the additional levels of reliability included within the treatment or reuse systems. (See Rule 62-610.462, F.A.C.)

Reclaimed Water will only be discharged offsite when operators are present

d. For permit renewals, list the dates on which the operating protocols (as described in Rule 62-610.463, F.A.C.) were submitted to the Department and the date of the Department's approvals during the last five years.

Date Submitted	Date Approved
/ /	/ /
/ /	/ /
/ /	/ /
/ /	/ /

e. For each site where edible crops are or will be irrigated with reclaimed water, describe the crops grown; the type of application system used; provisions for crop washing and for processing, if any; and provisions for control of public access, if any. (See Rule 62-610.475, F.A.C.)

N/A

"N/A"

Serial Number(s)_____

SECTION 3. C. GROUND WATER DISPOSAL BY UNDERGROUND INJECTION

1. **Underground Injection Well Facility Serial Number and Name**

   Underground Injection Well Facility Serial Number _____
   Underground Injection Well Facility Name _____
   Previous Underground Injection Well Facility Serial Number _____

2. **Underground Injection Well Facility Location**

   County _____
   City or Town (if applicable) _____
   Street or Description _____

   Latitude _____ ° _____ ' _____ "N
   Longitude _____ ° _____ ' _____ "W
   Dates Coordinates Determined ____/____/____
   Method Used to Obtain Coordinates _____

3. **Underground Injection Well Facility DEP Identification Number or Permit Application Number** _____

4. **Discharge Operating Dates**

   Discharge Start Date ____/____/____
   Discharge End Date ____/____/____

   Reason for Discontinuing the Discharge _____

5. **Design Capacity of the Underground Injection Well Facility**

   Current Design Capacity _____ mgd
   Proposed Incremental Design Capacity + _____ mgd
   Proposed Total Design Capacity = _____ mgd

6. **Basis of Design Flow**

   _____ Annual Average Daily Flow
   _____ Maximum Monthly Average Daily Flow
   _____ Three-Month Average Daily Flow
   _____ Other

   If other, specify. _____

Serial Number(s) R002

SECTION 4. SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION

1. **Improvements Required**

   a. Discharge Serial Numbers, Reclaimed Water Reuse or Land Application System Serial Numbers, and Underground Injection Well Facility Serial Numbers Affected: R002

   b. Authority Imposing Requirement

   ___ Local
   _X_ State
   ___ Federal
   ___ Developed by Applicant
   ___ Other

   If other, specify. ______

   c. Improvement Description:

   3-character General Action Description: INC

   3-character Specific Action Descriptions: TER / DIS / ___ / ___

2. **Implementation Schedule and Actual Completion Dates**

Implementation Steps	Schedule	Actual Completion
a. Preliminary Plans Complete	3 / 1 / 96	/ /
b. Final Plans and Specifications Complete	10 / 1 / 96	/ /
c. Financing Complete	12 / 1 / 96	/ /
d. Site Acquired	/ /	/ /
e. Begin Construction	2 / 1 / 97	/ /
f. End Construction	2 / 1 / 98	/ /
g. Begin Reuse or Disposal	2 / 1 / 98	/ /
h. Operational Level Attained	8 / 1 / 98	/ /

"N/A"

Serial Number(s)_____

SECTION 5. INDUSTRIAL WASTEWATER CONTRIBUTIONS

1. **Significant Industrial User**

   Name _____
   Number and Street _____
   City/State/Zip Code _____
   County _____

2. **Primary Standard Industrial Classification Code** _____

3. **Principal Product or Raw Material**

	Description	Quantity per Day	Units (See Table 3)
Product			
Raw Material			

4. **Flow**

   Volume _____ Gallons Per Day

   Frequency ___Intermittent ___Continuous

5. **Pretreatment Provided** ___Yes ___No

6. **Characteristics of Wastewater**

Parameter Name	Value	Units

SECTION 6. ADDITIONAL INFORMATION REQUIRED FOR PERMIT RENEWALS

1. Have there been any modifications to the treatment facilities or reuse or disposal system, since the issuance of the current permit? If yes, describe on a separate sheet and attach.

   X Yes ____No (See Attachment 1)

2. For limited wet weather discharges, have any modifications been made to the operation, frequency of discharge, or stream hydrology since the original limited wet weather discharge permit or the most recent permit. If yes, describe on a separate sheet and attach.

   ____Yes ____No ____NA

3. Have there been any violations during the last six months? If yes, describe on a separate sheet and attach.

   ____Yes ____No ____NA

4. Have there been any treatment facility interferences due to the discharge of industrial wastewater to the treatment facility during the last six months? If yes, describe on a separate sheet and attach.

   ____Yes ____No

5. Is there any enforcement action pending against these treatment, reuse, or disposal facilities? If yes, describe on a separate sheet and attach.

   ____Yes ____No

6. Have all previous permit conditions, including pretreatment requirements, monitoring requirements, and operator attendance been complied with? If no, describe on a separate sheet and attach.

   ____Yes ____No

7. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., list the number of days during each of the last five years that the limited wet weather discharge was used. Also, list the total annual rainfall for each year.

Year	Number of Days Used	P (%)	Annual Rainfall (inches)
1. N/A			
2.			
3.			
4.			
5.			
Total/Averag			

8. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., provide the number of days during each of the last five years that the actual dilution ratio, as defined in Rule 62-610.860, F.A.C., was less than the minimum SDF and the number of months in which the monthly average $CBOD_5$ or TKN in the limited wet weather discharge exceeded the permit limitations.

Year	Number of Days the Dilution Ratio Was Less Than SDF	Number of Months the Limits Were Exceeded	
		$CBOD_5$	TKN
1.	N/A		
2.			
3.			
4.			
5.			

"N/A"

SECTION 7. ADDITIONAL INFORMATION REQUIRED FOR RESIDUALS/SEPTAGE MANAGEMENT FACILITIES

1. **Location of Residuals Treatment Processes**

   (Describe in relation to the wastewater treatment processes.)

   _____
   _____
   _____
   _____
   _____
   _____
   _____
   _____
   _____

2. **Type and Amount of Waste Treated at this Facility**

Type	Amount (dry tons/day)	Amount (gallons/day)
Residuals	or	
Septage		
Food Establishment Sludge		
Portable Toilet Waste		
Holding Tank Waste		
Boat or Marina Waste		
Other (Describe.)	or	
Total	or	

Is the total amount estimated or actual?

_____ Estimated
_____ Actual

3. **Information on Treatment Facilities Transporting Residuals**

   a. DEP Permit Number _____

   b. Facility Name _____
      Number and Street _____
      City/State/Zip Code _____
      County _____
      Telephone (____) _____

   c. Facility Type

      _____ Type I
      _____ Type II
      _____ Type III

"N/A"

d. Amount of Residuals Received From This Facility

_____dry tons/day or _____gpd

Is this amount estimate or actual?

_____Estimated
_____Actual

e. Describe the treatment provided by this facility before transport.

_____
_____
_____
_____
_____
_____

f. Parameter Concentrations

Total Nitrogen	_____ % dry weight
Total Phosphorus	_____ % dry weight
Total Potassium	_____ % dry weight
Cadmium	_____ mg/kg dry weight
Copper	_____ mg/kg dry weight
Lead	_____ mg/kg dry weight
Nickel	_____ mg/kg dry weight
Zinc	_____ mg/kg dry weight
pH	_____ standard units
Total Solids	_____ %
Other Parameters (Describe.)	_____
	_____
	_____

Date of Sample

_____/ _____/ _____

4. Describe the manifest system used for tracking residuals during transport from the facilities.

_____
_____
_____
_____
_____
_____
_____
_____
_____

SECTION 8. DOCUMENTATION SUBMITTED

1. General Application Requirements

	Attached	
	Yes	No
a. Process Flow Diagram	X	
b. Site Plan	X	
c. Location Map	X	
d. Agricultural Use Plan or Dedicated Site Plan		X
e. Capacity Analysis Report		X
f. Results of Whole Effluent Biological Toxicity Testing		X
g. Reuse Feasibility Study		X
h. Binding Agreements and Documentation of Controls on Individual Users of Reclaimed Water		X

2. Additional Application Requirements for New Facilities and Modifications to Existing Facilities

	Yes	No
a. Preliminary Design Report	X	
b. Documentation of Compliance with Antidegradation Requirements		X
c. Public Service Commission Certification Number and Copy of Certificate or Order Number and Copy of Order		X
d. Letter from the Management and Storage of Surface Waters Permitting Agency		X
e. Request for Approval of Monitoring Plans for Discharge of Domestic Wastewater to Wetlands		X
f. Concurrent Application for Ground Water Disposal by Underground Injection		X
g. Application for Monitoring Plan Approval		X

3. Additional Application Requirements for Permit Renewals

	Yes	No
a. Operation and Maintenance Performance Report		X
b. Reclaimed Water of Effluent Analysis Report		X
c. Technical Evaluation of Need to Revise Local Pretreatment Limits		X
d. Results of Mechanical Integrity Testing		X

SECTION 9. CERTIFICATIONS

1. **Certifications for Construction of New Facilities or Modifications to Existing Facilities**

a. Applicant or Authorized Representative

I certify that the statements made in this application for a permit and all attachments are true, correct, and complete to the best of my knowledge and belief. I agree to retain the design engineer, or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a notification of completion of construction, and to review record drawings for adequacy as referenced in Rule 62-620.630, F.A.C. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-620.630, F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare or revise, if necessary) the manual. For projects regulated by Chapter 62-610, F.A.C., I agree to provide the additional operation requirements of that Chapter.

______________________________ (Signature of Applicant or Authorized Representative[1])

______________ (Date)

Name (please type) Donald Rasmussen
Title Vice President
Phone (407) 869-1919
Company Name Alafaya Utilities, Inc.
Company Address 200 Weathersfield Ave.
City/State/Zip Code Altamonte Springs, FL 32714

b. Professional Engineer Registered in Florida

I certify that the engineering features of this domestic wastewater project have been (designed) (examined) by me and found to conform to engineering principles applicable to such projects. In my professional judgement, this facility, when properly constructed, operated, and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department.

Name (please type) Gary J. ReVoir II, P.E.
Florida Registration Number 46684
Company Name Hartman & Associates, Inc.
Company Address 201 E. Pine St., Suite 1000
City/State/Zip Code Orlando, FL 32801
Phone Number (407) 839-3955

______________________________ (Seal, Signature, Date, and Registration Number)

c. Professional Engineer Registered in Florida

I certify that this firm or individual has been retained by the applicant to prepare a notification of completion of construction, to prepare operation and maintenance manuals, and to review record drawings for adequacy as referenced in Rules 62-620.630, 62-600.717, and 62-600.720, F.A.C.

Name (please type)______________
Florida Registration Number______________
Company Name______________
Company Address______________
City/State/Zip Code______________
Phone Number ( )______________

______________________________ (Seal, Signature, Date, and Registration Number)

2. Certifications for Permit Renewals

a. Applicant or Authorized Representative

I certify that the statements made in this application for a permit and all attachments are true, correct and complete to the best of my knowledge and belief. I agree to operate and maintain these wastewater facilities in such a manner as to comply with the provisions of Chapter 403, F.S., Chapter 62-600, F.A.C., and all other applicable rules of the Department. Further, an appropriate operation and maintenance manual which has been examined by a professional engineer as certified below is available and located at _____. and can be submitted upon request as part of the permit procedure. A copy of the record drawings or other plans (as applicable) showing modifications to existing facilities, as referenced in Rule 62-600.717, F.A.C., is available at the same location. I also understand that a permit if granted by the Department, is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C., and I will notify the Department in accordance with this rule upon sale or legal transfer of the permitted facilities. In the event of abandonment or inactivation of the facilities, I will notify the Department and ensure that public health and safety are protected as required by Rule 62-620.610, F.A.C.

_____ _____

(Signature of Applicant or Authorized Representative[1]) (Date)

Name (please type)_____ Company Name _____
Title_____ Company Address _____
Phone _____ City/State/Zip Code _____

b. Professional Engineer

I certify that the engineering features of these domestic wastewater facilities have been examined by me and found to conform to engineering principles applicable to such projects. I certify that the operation and maintenance manual for these wastewater facilities has been prepared or examined by me or by individual(s) under my direct supervision and that there is reasonable assurance, in my professional judgement, that the facilities, when properly operated and maintained in accordance with this manual, will comply with all applicable statutes of the State of Florida and rules of the Department.

Name (please type)_____
Florida Registration Number_____
Company Name_____
Company Address_____
City/State/Zip Code_____
Phone Number_(___)_____

_____
(Seal, Signature, Date, and Registration Number)

[1] If signed by the authorized representative, attach a letter of authorization.

ATTACHMENT 1

SECTION 6(1)

MODIFICATIONS TO PERCOLATION POND SYSTEM

(Construction Permit)

Department of Environmental Protection

Lawton Chiles
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Virginia B. Wetherell
Secretary

CERTIFIED MAIL
Z 188 599 214

NOTICE OF PERMIT

RECEIVED
MAY 30 1995

ALAFAYA UTILITIES INC
200 WEATHERSFIELD AVENUE
ALTAMONTE SPRINGS FL 32714

ATTENTION DONALD RASMUSSEN
VICE PRESIDENT

Seminole County - DW
Alafaya WWTF-Reuse Improvements

Enclosed is Permit Number DC59-263610 to construct improvements to the existing multi-cell percolation pond system and add a 10 acre restricted access sprayfield, issued pursuant to Section(s) 403.087, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Vivian F. Garfein
Director of District Management

Date: May 25, 1995

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to $120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk 5/25/95
Date

VFG/dj/bn

Attachment: Groundwater Monitoring Plan

Copies furnished to:

Gary J. Revoir, P.E.
Compliance Section

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 5/26/95 to the listed persons, by Beatriz Navarro.

Rev. 4/91

Department of Environmental Protection

Lawton Chiles
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Virginia B. Wetherell
Secretary

Permittee:
Alafaya Utilties, Inc.
200 Weathersfield Avenue
Altamonte Springs, FL 32714

Attention: Donald Rasmussen
Vice President

I. D. Number: 3059P00434
Permit Number: DC59-263610
Expiration Date: September 30, 1995
County: Seminole
Latitude/Longitude:
28°38'51"N /81°11'15"W
Section/Township/Range
22 / 21S / 31E
Project: Alfaya WWTF - Reuse Improvements

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-600 and 62-610. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Construct: Modifications to the existing twelve (12) cell percolation pond system, to include: maintain Pond #1 for overflow from Pond #5; convert Ponds #2 thru #5 into a single cell Pond #5; Pond #6 to standby; Ponds #7 & #8 as is; convert part of Ponds #9 & #10 plus adjacent vacant land into a 425,000± square foot sprayfield with a reuse capacity of 0.1 MGD (2.64 in/week); reconstruct the remaining parts of Ponds #9 & #10; reconstruct the west berms of Ponds #11 & # 12; install underdrains in the west perimeter of Pond #8 and the south perimeter of Pond #11; and add a lift station with dual submersible pumps, associated valving, flow meters and diversion piping to Ponds #9 & #10 or Pond #12 and to the proposed sprayfield. This modified restricted access reuse system will have a total disposal capacity of 1.1 MGD annual average daily flow (AADF).

Location: South of and adjacent to East Mitchell Hammock Road, Oveido, Seminole County, Florida.

Treatment Required: For this land application system secondary treatment, basic disinfection and nitrate nitrogen (NO_3) concentration in the reclaimed water not to exceed 12.0 mg/L, or as required to comply with Rule 62-610.510, F.A.C.

Operators Required: This is a Class B, Category I wastewater treatment facility. In accordance with Chapter 62-699, F.A.C. an operator of minimum certification Class C shall be on-site for sixteen (16) hours per day for seven (7) days per week. The lead/chief operator must be Class B or higher. Diversion of acceptable quality reclaimed water to the public access reuse sytem shall occur only during periods of operator attendance at the treatment plant site.

Other Permits: Operating permit, DO59-175856, expired March 1, 1995 (new DO pending). Upon notification that this system has been completed and approval by the Department this permit shall become part of the new operating permit.

General Conditions are attached to be distributed to the permittee only.

IX. General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1), 11-29-94]

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2), 11-29-94]

3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3), 11-29-94]

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4), 11-29-94]

5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5), 11-29-94]

6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6), 11-29-94]

7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7), 11-29-94]

8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8), 11-29-94]

9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to

   a. Enter upon the permittees premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;

   b. Have access to and copy any records that shall be kept under the conditions of this permit;

   c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and

   d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

   [62-620.610(9), 11-29-94]

10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is prescribed by Section 403.111, Florida Statutes, or Rule 62-620..302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10), 11-29-94]

11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. [62-620.610(11), 11-29-94]

12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12), 11-29-94]

13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13), 11-29-94]

14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. [62-620.610(14), 11-29-94]

15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15), 11-29-94]

16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16), 11-29-94]

17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:

    a. A description of the anticipated noncompliance;

    b. The period of the anticipated noncompliance, including dates and times; and

    c. Steps being taken to prevent future occurrence of the noncompliance.

    [62-620.610(17), 11-29-94]

18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.

    a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).

    b. If the permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

    c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.

    d. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.

    e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

    [62-620.610(18), 11-29-94]

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date.

    [62-620.610(19), 11-29-94]

20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

    a. The following shall be included as information which must be reported within 24 hours under this condition:

        1. Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
        2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
        3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
        4. Any unauthorized discharge to surface or ground waters.

b. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.

[62-620.610(20), 11-29-94]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. A. 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX. A. 20 of this permit. [62-620.610(21), 11-29-94]

22. Bypass Provisions.

a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:

1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and

2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

3. The permittee submitted notices as required under Permit Condition IX. A. 22. b. of this permit.

b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX. A. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.

c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX. A. 22. a. through 3. of this permit.

d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX. A. 22. a. through c. of this permit.

[62-620.610(22), 11-29-94]

23. Upset Provisions

a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:

1. An upset occurred and that the permittee can identify the cause(s) of the upset;

2. The permitted facility was at the time being properly operated;

3. The permittee submitted notice of the upset as required in Permit Condition IX. A. 20. of this permit; and

4. The permittee complied with any remedial measures required under Permit Condition IX. A. 5. of this permit.

b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23), 11-29-94]

Permittee:
Alafaya Utilties, Inc.

I. D. Number: 3059P00434
Permit Number: DC59-236610
Date Of Issue:
Expiration Date: September 30, 1995

Attention: Donald Rasmussen

SPECIFIC CONDITIONS:

1. The reclaimed water delivered to the land application system shall be adequately chlorinated at all times so as to maintain 0.5 mg/L total chlorine residual after a minimum contact period of 15 minutes (based upon peak hourly flow).

2. Groundwater monitoring shall be performed in accordance with the attached Groundwater Monitoring Plan Implementation Schedule.

3. Flows from the new lift station shall be recorded and noted on the monthly operating reports for this facility. Flows to the ponds (9/10 or 12) or to the sprayfield shall be reported separately.

4. The reclaimed water facilities discharging to ground waters shall be operated and maintained at all times so as to prevent overflow or seepage of water to adjacent ground surfaces or runoff to surface waters.

5. The boundary of the zone of discharge shall be 100 feet from the site (wetted disposal area) boundary or to the installation's property boundary whichever is less. The zone of discharge shall be the volume underlying the surface within this boundary to the base of the unconfined aquifer.

6. The permittee shall retain a professional engineer registered in the State of Florida, to observe construction of the project and to assure conformity to the application, plans and specifications as approved. Upon completion of construction, the engineer shall provide the Department with a Notification that a Domestic Wastewater Facility Will Be Placed Into Operation, DEP Form 17-600.910(3) and Record Drawings.

7. Operation of the treatment plant shall be under the control of Certified Operators, in accordance with Rule 62-699.310, F.A.C., who shall perform the duties required by Chapter 61E12-41, F.A.C.

8. A weather resistant structure shall be provided on-site to house the maintenance and operation log for the plant, as required by Chapter 61E12-41, F.A.C.

9. This permit does not cover any of the structural engineering aspects of this project.

10. The permittee will promptly notify the Department upon sale or legal transfer of the permitted facility. In accordance with General Condition #11 of this permit, this permit is transferable only upon Department approval. The new owner must apply, by letter, for a transfer of permit within 30 days.

Permittee:
Alafaya Utilties, Inc.

I. D. Number: 3059P00434
Permit Number: DC59-236610
Date Of Issue:
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Attention: Donald Rasmussen

SPECIFIC CONDITIONS:

11. Where potable water and sanitary sewer mains cross with less than eighteen (18) inches vertical clearance, the sewage main shall be twenty (20) feet of either ductile iron pipe, concrete encased PVC pipe or encased in a watertight carrier pipe, centered on the point of crossing. A minimum horizontal separation of ten (10) feet (edge to edge) between potable water mains and sewage mains shall be maintained when practical. When the appropriate horizontal separation cannot be maintained the sewage main shall be either ductile iron pipe, concrete encased vitrified clay pipe, concrete encased PVC pipe or encased in a watertight pipe carrier.

12. Berms shall be constructed of material with low permeability and compacted sufficiently to prevent lateral seepage through them.

13. Normal percolation pond operating conditions should have 1-7 days hydraulic loading followed by 5-14 days resting periods with the maximum allowable wastewater level in any of the percolation ponds not closer than three (3) feet from the top of the berm. Once that level is reached, the pond shall be removed from use until the next loading cycle. A staff gauge with graduation in feet and tenths shall be provided in each pond. Any emergency discharge of water from the percolation pond will be considered a violation of this permit unless as a result of the storm event which produces rainfall in excess of 7.0 inches for any day or the cumulation of rainfall greater than 10 inches for any three consecutive days. To document the rainfall, it is required that rain gauge readings be taken at the same time each day. It should be noted that discharge is allowed only in amount equal to the volume of excess rainfall (i.e., rainfall in excess of 7.0 inches for any day or the accumulation of rainfall greater than 10 inches for any three (3) consecutive days) times the surface area of pond(s). Within 24 hours of both commencement and ending of discharge, the permittee must notify the event to the department in writing. Within 10 days a report must be provided containing information on the time of discharge, volume discharged, a log of daily rain gauge reading, and wastewater characteristics for pH, $CBOD_5$, TSS, TN and TP.

14. Pond maintenance shall include periodically scraping the bottom to remove solids, emergent vegetation, silt deposits and discing the pond bottom. Vegetation along the berms shall be kept mowed for aesthetic purposes and to allow visual inspection of the berm slopes for erosion, seepage and deterioration.

15. Sprayfield maintenance shall include periodic removal of woody vegetation. Vegetation shall be kept mowed to maximize nutrient uptake, for aesthetic purposes and to allow visual inspection of the sprayfield for ponding, run-off, erosion and deterioration. Any overspray, ponding or run-off shall be considered a violation of this permit.

Permittee:
Alafaya Utilties, Inc.

I. D. Number: 3059P00434
Permit Number: DC59-236610
Date Of Issue:
Expiration Date: September 30, 1995

Attention: Donald Rasmussen

SPECIFIC CONDITIONS:

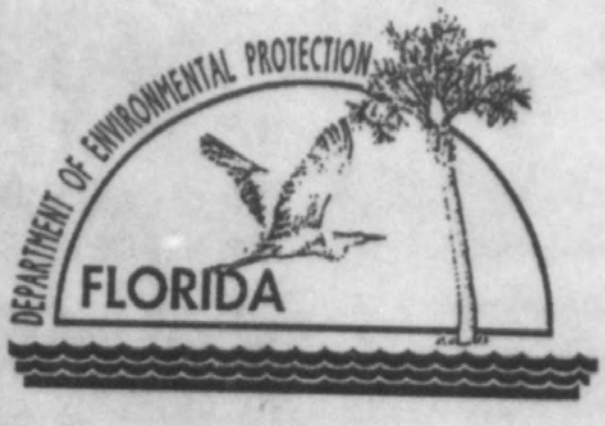
16. Operational difficulties, including any collection/transmission system overflows, which may cause or result in non-compliance with the requirements of the permit, shall be reported within twenty-four (24) hours to the Department.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Vivian F. Garfein

Vivian F. Garfein
Director of District Management

ISSUED May 25, 1995



WASTEWATER PERMIT APPLICATION FORM 1 GENERAL INFORMATION

This form must be completed by all persons applying for a permit to operate a domestic or industrial wastewater facility. See Form 1 to determine which other application forms you will need.

DESCRIPTION OF PERMIT APPLICATION FORMS

Form 1 - General information. This booklet includes general information on applying for a permit to operate a domestic or industrial wastewater facility. Form 1 is required for all permit applications.

Form 2 - Specific information. This group of forms includes the specific information required for the type of wastewater facility for which a permit is needed. Select the appropriate form(s) to be submitted with Form 1.

Form 2A - Domestic Wastewater Facilities.
Form 2B - Concentrated Animal Feeding Operations and Aquatic Animal Production Facilities.
Form 2CS -Industrial Wastewater Facilities (discharging process wastewater to surface waters).
Form 2CG -Industrial Wastewater Facilities (discharging process wastewater to ground water).
Form 2ES -Industrial Wastewater Facilities (discharging non-process wastewater to surface waters).
Form 2EG -Industrial Facilities (discharging non-process wastewater to ground water).
Form 2F - Stormwater Discharges to Surface Waters from Industrial or Domestic Facilities
Form 2CR -Non-Discharging/Closed Loop Recycle System.

SECTION A - GENERAL INSTRUCTIONS

Who Must Apply:

Persons who are or are going to discharge wastewater to waters of Florida or the United States must file for and be granted a permit under Sections 403.087, 403.088, or 403.0885, Florida Statutes (F.S.). There are severe penalties for discharging without a permit.

There are some exceptions to this requirement. Discharges of domestic sewage from vessels and discharges from properly operating marine engines are not required to have a permit under the laws listed above. However, discharges of rubbish, trash, garbage or other such materials discharged overboard do require permits. Vessels operated in a capacity other than as a means of transportation are required to have a permit if they are discharging to waters. These types include vessels used as an energy or mining facility, a storage facility, a seafood processing facility, or a anchored facility for the purpose of mineral or oil exploration or development.

The introduction of sewage, industrial wastes, or other pollutants into a domestic wastewater treatment facility does not need a permit under Sections 403.087, 403.088 or 403.0885, F.S. Persons discharging to permitted wastewater treatment facilities must comply all applicable pretreatment standards. If a person has a plan or an agreement to switch from direct discharge into waters of the state to discharge to a domestic treatment facility, it does not relieve the person from obtaining a permit for the discharge until such time as the connection is made and the discharge is stopped.

Most discharges from agricultural and silvicultural activities to waters of the state do not require a permit under Sections 403.087, 403.088, or 403.0885, F.S. However, permits under those sections are required for discharges from concentrated animal feeding operations, concentrated aquatic animal production facilities, activities associated with approved aquaculture projects, and silvicultural point sources.

Where to Apply:

Permit applications must be filed with the Department of Environmental Protection (DEP) district office shown in Figure 1 for the county in which the wastewater facility is located, except for permit applications for steam electrical generating power plants which are filed with the DEP office in Tallahassee. DEP offices are located at:

Figure 1. State Map Showing DEP District Offices

NORTHWEST DISTRICT
160 Government Center
Pensacola, Florida 32501-5794
Phone No. (904)436-8300

Northwest District Branch Office
2353 Jenks Avenue
Panama City, Florida 32405
Phone No. (904)872-4375

Northwest District Branch Office
2815 Remington Green Circle
Tallahassee, Florida 32308
Phone No. (904)488-3704

SOUTHWEST DISTRICT
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
Phone No. (813)542-6100

SOUTH DISTRICT OFFICE
2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33901
Phone No. (813)332-6975

South District Branch Office
11400 Overseas Highway, Suite 123
Marathon, Florida 33050
Phone No. (305)289-2310

NORTHEAST DISTRICT
7825 Baymeadows Way
Jacksonville, Florida 32256-7577
Phone No. (904)448-4300

Northeast District Branch Office
5700 Southwest 34 Street, Suite 1204
Gainesville, Florida 32608
Phone No. (904)336-2095

CENTRAL DISTRICT
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767
Phone No. (407)894-7555

SOUTHEAST DISTRICT
1900 South Congress Avenue, Suite A
West Palm Beach, Florida 33406
Phone No. (407)433-2650

Southeast District Branch Office
1801 Southeast Hillmoor Drive, Suite C-204
Port St. Lucie, Florida 34952
Phone No. (407)878-3890

When to Apply:

Applications must be filed with the appropriate DEP office 180 days before your current permit expires or 180 days before startup of a new or modified facility. If the submitted application is for a new facility or for a modification of an existing facility, the information required for describing the construction must be filed at least 90 days before construction begins. The DEP encourages applicants to file the materials describing the construction of a new facility or the modification of an existing facility as early as possible to avoid problems with delays in startup or facility redesign to achieve effluent limitations.

Federal regulations provide that a new source in the NPDES program may not be constructed or started to be constructed before the issuance of an operation permit. Because of this regulation, a permit application for a new source may need to be submitted well in advance of the required 180 days.

Fees:

Application fees are listed in Section 62-4.050, Florida Administrative Code (F.A.C.). An application will not be processed until the application fee has been paid. If the DEP determines that a permit should be issued for less than five years duration, the application fee will be pro rated.

If a permit is issued for a surface water discharge, the permittee will be assessed a regulatory and surveillance program fee annually. Those fees are listed in Section 62-4.052, F.A.C. Failure to pay the annual fee may result in revocation of the permit.

Availability of Information to the Public:

Information contained in these applications forms will, upon request, be made available to the public for inspection and copying. However, you may request confidential treatment for certain information which you may submit to supplement the information requested on these forms. Section 620.302, F.A.C., and 40 CFR 2 provide set forth the procedures for making the claim. No information on Forms 1 and 2A through 2EG may be claimed as confidential.

Completion of Forms:

Unless otherwise specified in instructions to the forms, each item in each form must be answered. To indicate that each item has been considered, enter "NA", for not applicable, if a particular item does not fit the circumstances or characteristics of your facility or activity.

If you have previously submitted information to the DEP which answers a question, you may either repeat the information in the space provided or attach a copy of the previous submission. DO NOT WRITE "ON FILE". Some items in the form require narrative explanation. If more space is necessary to answer a question, attach a separate sheet entitled "Additional Information."

SECTION B - FORM 1 LINE-BY-LINE INSTRUCTIONS

This form must be completed by all applicants.

Completing This Form:

Please type or print in the underlined areas only. Some items have a limited number of spaces or characters so that your response may be entered into a computer program. Please do not exceed this maximum number with your response. Abbreviate if necessary to stay within the number of characters allowed for each item. Use one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response.

Item I

Space is provided at the upper right hand corner of Form 1 for insertion of your Facility Identification Number. If you have an existing facility, enter your identification number. If you don't know your identification number, please contact the appropriate DEP office which will provide you with your number. If your facility is new (not yet constructed), leave this item blank.

Item II

Answer each question to determine which supplementary forms you need to fill out. Be sure to check the glossary in Section C of these instructions for the legal definitions of any words you are not certain of their meaning.

If you answer "no" to every question, then you may not need a permit. However, you should call the appropriate district office to determine if you have made a correct determination. If you answer "yes" to any question, then you must complete and file the supplementary form by the deadline listed in Section A along with this form.

Item III

Enter the facility's official or legal name. Do not use a colloquial name.

Item IV

Give the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility, with the facts reported in this application, and who can be contacted by reviewing offices if necessary.

Item V

Give the complete mailing address of the office where correspondence should be sent. This often is not the address used to designate the location of the facility or activity.

Item VI

Give the address or location of the facility identified in Item III of this form. If the facility lacks a street name or route number, give the most accurate alternative geographic information (for example, section number or quarter section number from county records or at intersection of Rts 426 and 22).

Item VII

List four, in descending order of significance, 4-digit standard industrial classification (SIC) codes which best describe your facility in terms of the principal products or services you produce or provide. Also, specify each classification in words. These classifications may differ from the SIC codes describing the operation generating the discharge from the facility.

SIC code numbers are descriptions which may be found in the "Standard Industrial Classification Manual" prepared by the Executive Office of the President, Office of Management and Budget, which is available from the Government Printing Office, Washington, D.C. Your local library may have a copy of this publication which you may use. Use the current edition of the manual. If you have any questions concerning the appropriate SIC code for your facility, please contact the appropriate DEP district office.

Item VIII-A

Give the name, as it is legally referred to, of the person, firm, public organization, or any other entity which operates the facility described in this application. This may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation rather than the plant or site manager. Do not use a colloquial name.

Item VIII-B

Indicate whether the entity which operates the facility also owns it by marking the appropriate box.

Item VIII-C

Enter the appropriate letter to indicate the legal status of the operator of the facility. Indicate "public" for a facility solely owned by a local government, such as a city, town, county, etc.

Items VIII-D through H

Enter the telephone number and address of the operator identified in Item VIII-A.

Item IX

Indicate whether the facility is located on Indian Lands.

Item X

Give the number of each presently effective wastewater permit issued to the facility listed in this application. List relevant federal, state, and local permits. DO NOT LIST ALL YOUR PERMITS. LIST ONLY CURRENT ENVIRONMENTAL PERMITS RELATING TO THIS PROJECT.

Item XI

Provide a topographic map or maps of the area extending at least to one mile beyond the property boundaries of the facility which clearly show the following:

The legal boundaries of the facility;

The location and serial number of each of your existing and proposed intake and discharge structures;

All hazardous waste management facilities;

Each well where you inject fluids underground; and

All springs and surface water bodies in the area, plus all drinking water wells within 1/4 mile of the facility which are identified in the public record or otherwise known to you.

If an intake or discharge structure, hazardous waste disposal site, or injection well associated with the facility is located more than one mile from the plant, include it on the map, if possible. If not, attach additional sheets describing the location of the structure, disposal site, or well, and identify the U.S. Geological Survey (or other) map corresponding to the location.

On each map, include the map scale, a meridian arrow showing north, and latitude and longitude at the nearest whole second. On all maps of rivers, show the direction of the current, and in tidal waters, show the directions of the ebb and flow tides. Use a 7-1/2 minute series map published by the U.S. Geological Survey. If a 7-1/2 minute series map has not been published for your facility site, then you may use a 15 minute series map from the U.S. Geological Survey. If neither a 7-1/2 nor 15 minute series map has been published for your facility site, use a plat map or other appropriate map, including all the requested information; in this case, briefly describe land uses in the map area (for example, residential, commercial).

You may trace your map from a geological survey chart, or other map meeting the above specifications. If you do, your map should bear a note showing the number or title of the map or chart from which it was traced. Include the names of nearby towns, water bodies, and other prominent points.

You may obtain a topographic map from:

Eastern Mapping Center
National Cartographic Information Center
U.S. Geological Survey
536 National Center
Reston, VA 22092

Item XII

Briefly describe the nature of your business (for example, products produced or services provided).

Item XIII

Section 403.161, F.S., provides severe penalties for submitting false information on this application form or any reports or records required by a permit, if issued. There are both civil and criminal penalties, in addition to the revocation of the permit.

Rule 62-620.305, F.A.C., requires that the application and any reports required by the permit, if issued, to be signed as follows:

A. For a corporation, by a responsible corporate officer as described in Rule 62-620.305, F.A.C.;
B. For partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
C. For a municipality, state, federal or other public facility, by a principal executive officer or elected official.

SECTION C - GLOSSARY

NOTE: This Glossary includes terms used in the instructions and in Forms 1, 2A through 2EG. If you have any questions concerning the meaning of any of these terms, please contact your DEP district office.

Aliquot means a sample of specified volume used to make up a total composite sample.

Animal Feeding Operation means a lot or facility (other than an aquatic animal production facility) where the following conditions are met:

A. Animals (other than aquatic animals) have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12 month period; and

B. Crops, vegetation, forage growth, or post-harvest residues are not sustained in the normal growing season over any portion of the lot or facility.

Two or more animal feeding operations under common ownership are a single animal feeding operation if they adjoin each other or if they use a common area or system for the disposal of wastes.

Animal Unit means a unit of measurement for any animal feeding operation calculated by adding the following number: The number of slaughter and feeder cattle multiplied by 1.0; plus the number of mature dairy cattle multiplied by 1.4; plus the number of swine weighing over 25 kilograms (approximately 55 pounds)multiplied by 0.4; plus the number of sheep multiplied by 0.1; plus the number of horses multiplied by 2.0.

Application means the approved DEP standard forms for applying for a permit, including any approved additions, revisions, or modifications to the forms. Approved forms are numbered, Form 62-620.910, and have an effective date of October 1, 1994, or later.

Aquifer means a geological formation, group of formations, or part of a formation that is capable of yielding a significant amount of water to a well or spring.

Best Management Practices (BMP) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs include treatment requirements, operation procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Biological Monitoring Test means any test which include the use of aquatic algal, invertebrate, or vertebrate species to measure acute or chronic toxicity, and any biological or chemical measure of bioaccumulation.

Bypass means the intentional diversion of wastes from any portion of a treatment facility.

Concentrated Animal Feeding Operation means an animal feeding operation which meets the criteria set forth in Chapter 62-670, F.A.C.

Concentrated Aquatic Animal Production Facility means a hatchery, fish farm, or other facility which contains, grows or hold aquatic animals as set forth in Chapter 62-660, F.A.C.

Contact Cooling Water means water used to reduce temperature which comes into contact with a raw material, intermediate product, waste product other than heat, or finished product.

CWA means the Clean Water Act as amended, 33 U.S.C. 1251 et seq.

Dike means any embankment or ridge of either natural or manmade materials used to prevent the movement of liquids, sludges, solids, or other materials.

Discharge (of a Pollutant) means any addition of any pollutant or combination of pollutants to waters of the State from any point source; or any addition of any pollutant or combination of pollutants to the marine waters of the State from any point source other than a vessel or other floating craft which is being used as a means of transportation.

This definition includes discharges into waters of the State from surface runoff which is collected or channelled by man; discharges through pipes, sewers, or other conveyances owned by the State, a municipality, or other person which do not lead to POTWs; and discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. This term does not include an addition of pollutants by any indirect discharge.

Effluent Limitation mean any restriction imposed by the DEP on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters of the State.

Effluent Limitation Guideline means a regulation published under Section 304(b) of the Clean Water Act to adopt or revise effluent limitations.

EPA means the United States Environmental Protection Agency.

Existing Source or Existing Discharger means any source which is not a new source or a new discharger.

Facility or wastewater facility means any facility which can reasonably be expected to be a source of pollution and includes any or all of the following: a collection and transmission system, a wastewater treatment works, a reuse or disposal system, and a residuals management facility.

Ground Water means water below the land surface in a zone of saturation.

Indirect Discharger means an industrial discharger introducing pollutants to a publicly owned treatment works.

Injection Well mean a well into which fluids are injected.

MGD means millions of gallons per day.

Municipality means a city, village, town, borough, county, district, association, or other public body created by or under State law and have jurisdiction over disposal of sewage, industrial wastes, or other wastes.

National Pollutant Discharge Elimination System (NPDES) means the national program for issuing, modifying, revoking and reissuing, termination, monitoring and enforcing permits and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the CWA. The term includes a State program which has been authorized by EPA under 40 CFR Part 123.

New Discharger mean any building, structure, facility, or installation: (A) from which there is or may be a new or additional discharge of pollutants at a site at which on October 18, 1972, it had never discharged pollutants; (B) which has never received a finally effective NPDES permit for discharges at that site; and (C) which is not a "new source." This definition includes an indirect discharger which commences discharging into water

of the State. It also includes any existing mobile point source, such as an offshore oil drilling rig, seafood processing vessel, or aggregate plant that begins discharging at a location for which it does not have an existing permit.

New Source means any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced: (A) after promulgation of standards of performance under Section 306 of the CWA which are applicable to such source; or (B) after proposal of standards of performance in accordance with Section 306 of CWA which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal.

Non-Contact Cooling Water means water used to reduce temperature which does not come into direct contact with any raw material, intermediate produce, waste product (other than heat), or finished product.

Off-Site means any site which is not "on-site."

On-Site means on the same or geographically contiguous property which may be divided by public or private right(s)-of-way, provided the entrance and exit between the properties is at a cross-roads intersection, and access is by crossing as opposed to going along, the right(s)-of-way. Non-contiguous properties owned by the same person, but connected by a right-of-way which the person controls and to which the public does not have access, is also considered on-site property.

Operator means the person responsible for the overall operation of a facility.

Outfall means a point source.

Owner means the person who owns a facility or part of a facility.

Permit means an authorization, license, or equivalent control document issued by the State to implement the requirements of 40 CFR 122, 123, and 124 and Chapter 403, F.S.

Point Source means any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

Pollutant means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical waste, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended), heat, wrecked or discarded equipment, rocks, sand, cellar dirt and industrial, municipal, and agriculture waste discharged into water. It does NOT mean: (A) sewage from vessels; or (B) water, gas, or other material which is injected into a well to facilitate production of oil or gas, or water derived in association with oil and gas production and disposed of in a well, if the well used either to facilitate production or for disposal purposes is approved by authority of the State in which the well is located, and if the State determines that the injection or disposal will not result in the degradation of ground or surface water resources.

Privately Owned Treatment Works means any device or system which is used to treat domestic wastewater from any facility which is not a POTW.

Process Wastewater means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct,

or waste product.

Publicly Owned Treatment Works (POTW) means any device or system used in the treatment (including recycling and reclamation) of domestic sewage or industrial wastes of a liquid nature which is owned by a State or municipality. This definition includes any sewers, pipes, or other conveyances only if they convey wastewater to a POTW providing treatment.

Residuals means the solid, semisolid, or liquid residue generated during the treatment of domestic wastewater. Not included are solids removed from pump stations and lift stations, and screenings and grit removed from the headworks of domestic wastewater treatment facilities. Also not included are other solids removed prior to treatment of the residuals to meet the stabilization standards of Chapter 62-640, F.A.C., or ash generated during the incineration of residuals.

Sewage From Vessels means human body wastes and the wastes from toilets and other receptacles intended to receive or retain body wastes that are discharged from vessels and regulated under Section 312 of the CWA.

Sewage Sludge means residuals.

Silvicultural Point Source means any discernable, confined and discrete conveyance related to rock crushing, gravel washing, log sorting, or log storage facilities which are operated in connection with silvicultural activities and from which pollutants are discharged into water of the State.

Storm Water Runoff means water discharged as a result of rain, snow, or other precipitation.

Surface Impoundment or Impoundment means a facility or part of a facility which is a natural topographic depression, manmade excavation, or diked area formed primarily of earthen materials (although it may be lined with manmade materials), which is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds, and lagoons.

Toxic Pollutant means any pollutant listed as toxic under Section 307(a)(1) of the CWA.

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

Waters of the State means the waters defined in Section 403.031, F.S., and including waters of the United States to the seaward boundaries of the State.

WASTEWATER PERMIT APPLICATION FORM 1 GENERAL INFORMATION

I IDENTIFICATION NUMBER:

Facility ID 3059 P00434

II CHARACTERISTICS:

INSTRUCTIONS: Complete the questions below to determine whether you need to submit any permit application forms to the Department of Environmental Protection. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the blank in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if you activity is excluded from permit requirements. See Section B of the instructions. See also, Section C of the instructions for definitions of the terms used here.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a domestic wastewater facility which results in a discharge to surface or ground waters?	Yes		X
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters?		No	
C. Does or will this facility (other than those describe in A. or B.) discharge process wastewater, or non-process wastewater regulated by effluent guidelines or new source performance standards, to surface waters?		No	
D. Does or will this facility (other than those described in A. or B.) discharge process wastewater to ground waters?		No	
E. Does or will this facility discharge non-process wastewater, not regulated by effluent guidelines or new source performance standards, to surface waters?		No	
F. Does or will this facility discharge non-process wastewater to ground waters?		No	
G. Does or will this facility discharge stormwater to surface waters?		No	
H. Is this facility a non-discharging/closed loop recycle system?		No	

III NAME OF FACILITY: (40 characters and spaces)

Alafaya Utilities, Inc. WWTP

Facility ID 3059 P00434

IV FACILITY CONTACT: (A. 30 characters and spaces)

A. Name and Title (Last, first, & title)	B. Phone (area code & no.)
Rasmussen, Donald, Vice President	(407) 869-1919

V FACILITY MAILING ADDRESS: (A. 30 characters and spaces; B. 25 characters and spaces)

A. Street or P.O. Box: 200 Weathersfield Avenue		
B. City or Town: Altamonte Springs	State: FL	Zip Code: 32714

VI FACILITY LOCATION: (A. 30 characters and spaces; B. 24 characters and spaces; C. 3 spaces (if known); D. 25 characters and spaces; E. 2 spaces; F. 9 spaces)

A. Street, Route or Other Specific Identifier: 1067 McKinnon Avenue		
B. County Name: Seminole	C. County Code (if known): 59	
D. City or Town: Oviedo	E. State: FL	F. Zip Code: 32765

VII SIC CODES: (4-digit, in order of priority)

1. Code #:	(Specify)	2. Code #:	(Specify)
3. Code #:	(Specify)	4. Code #:	(Specify)

VIII OPERATOR INFORMATION: (A. 40 characters and spaces; B. 1 character; C. 1 character (if other, specify); D. 12 characters; E. 30 characters and spaces; F. 25 characters and spaces; G. 2 characters; H. 9 characters)

A. Name: Alafaya Utilities, Inc.		B. Is the name in VIII A. the owner? Yes: No:	
C. Status of Operator: F = Federal; S = State; P = Private; O = Other; M = Public (other than F or S)	(code) P	(specify)	D. Phone No.: (407) 869-4346
E. Street or P. O. Box: 200 Weathersfield Avenue			
F. City or Town: Altamonte Springs	G. State: FL	H. Zip Code: 32714	

IX INDIAN LAND: Is the facility located on Indian lands? Yes: ___ No: X