



Carlos Alvarez, Mayor

Water & Sewer
P. O. Box 330316 • 3071 SW 38th Avenue
Miami, Florida 33233-0316
T 305-665-7471

miamidade.gov

December 22, 2008

CERTIFIED: 7003 1680 0004 5547 7849

ADA Coordination
Agenda Coordination
Animal Services
Art in Public Places
Audit and Management Services
Aviation
Building
Building Code Compliance
Business Development
Capital Improvements
Citizens' Independent Transportation Trust
Commission on Ethics and Public Trust
Communications
Community Action Agency
Community & Economic Development
Community Relations
Consumer Services
Corrections & Rehabilitation
Cultural Affairs
Elections
Emergency Management
Employee Relations
Empowerment Trust
Enterprise Technology Services
Environmental Resources Management
Fair Employment Practices
Finance
Fire Rescue
General Services Administration
Government Information Center
Historic Preservation
Homeless Trust
Housing Agency
Housing Finance Authority
Human Services
Independent Review Panel
International Trade Consortium
Juvenile Services
Medical Examiner
Metro-Miami Action Plan
Metropolitan Planning Organization
Park and Recreation
Planning and Zoning
Police
Procurement Management
Property Appraisal
Public Library System
Public Works
Safe Neighborhood Parks
Seaport
Solid Waste Management
Strategic Business Management
Team Metro
Transit
Task Force on Urban Economic Revitalization
Vizcaya Museum And Gardens
Water & Sewer

Ms. Shanin Speas-Frost, P.E.
DEP Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

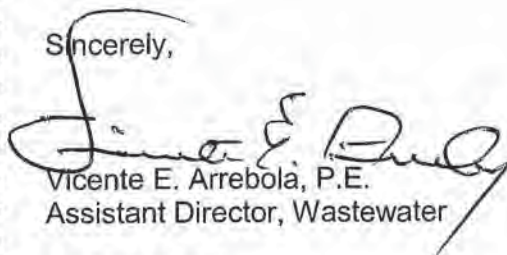
Re: Miami-Dade Water and Sewer Department
North District Wastewater Treatment Plant, Permit No. FLA 032183-002
Annual Reuse Report

Dear Ms. Speas-Frost:

Attached, please find the referenced Annual Reuse Report for the fiscal year ending September 30, 2008, submitted in accordance with Rule 62-610.870, F.A.C.

Please contact me at (786) 552-8116 or Mr. Richard O'Rourke P.E. at (786) 552-8123 if you require any additional information.

Sincerely,



Vicente E. Arrebolá, P.E.
Assistant Director, Wastewater

VEA/RMO/mc

c: Todd R. Brown, FDEP/WPB
Curt Thompson, SFWMD

Attachment: North District Wastewater Treatment Plant, 2007/2008
Annual Reuse Report

Delivering Excellence Every Day

L08238FDEP-ND-Reuse.docx



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

ANNUAL REUSE REPORT

Part I - Instructions

1. This form is to be submitted on or before January 1 following the completion of each fiscal year (October 1 through September 30). Submittal is required by Rule 62-610.870, F.A.C. This report will be used to develop and maintain a reuse inventory. It will not be used for determination of compliance with permit limitations, other than requirements to submit this report. If flow monitoring information is not available for individual reuse types or types of users, please provide your best estimates of flows allocated to individual reuse types or types of users.
2. Submit one copy (including all attachments) to each of the following three addresses:
 - a. DEP Water Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
 - b. The appropriate DEP district office (attention Domestic Wastewater Program).
 - c. The appropriate water management district.
3. Please type or print legibly. Submit all pages of this form.
4. Completion of this report is required for all domestic wastewater facilities having permitted capacities of 0.1 mgd or larger which contribute reclaimed water to one or more reuse systems permitted under Chapter 62-610, F.A.C. This form is to be completed annually for each separate reuse system. For purposes of this form, "reuse system" means a network of pipes, pumping facilities, storage facilities, and appurtenances designed to convey and distribute reclaimed water from one or more domestic wastewater treatment facilities to one or more users of reclaimed water.
5. Use the units specified in the form. For flows, show annual average flows (in mgd). This can be obtained by averaging daily flows over a 365-day period, dividing the total annual volume by 365, or by averaging the 12 monthly average flow values.
6. Be sure to submit the required attachments (see Part X on pages 8 and 9 of this form).
7. The cover sheet of your permit will identify portions of your project classified as "reuse" and portions classified as "effluent disposal." Rule 62-610.810, F.A.C., lists the criteria for classifying projects (or portions of projects) as "reuse" or "effluent disposal."

Part II - General Information

1. Reporting Period: October 1, 2007 through September 30, 2008

2. Date Submitted December 22, 2008

3. Person Completing This Form

Name Mario J. Campa

Title Engineer 1

Organization Miami-Dade Water and Sewer Department

Mailing Address PO Box 330316

City/State/Zip Code Miami, FL 33233-0316

Telephone (786) 552-8125

E-mail mjcamp@miamidade.gov

4. Reuse System Name North District Wastewater Treatment Plant / In-Plant Reuse System

5. Domestic Wastewater Treatment Facilities Providing Reclaimed Water to This Reuse System

a. Location of Facilities

City Miami County Miami-Dade

DEP District (check one):

- ☐ Northwest (Pensacola)
- ☐ Northeast (Jacksonville)
- ☐ Southwest (Tampa)
- ☐ Central (Orlando)
- ☒ Southeast (West Palm Beach)
- ☐ South (Ft. Myers)

Water Management District (check one):

- ☐ Northwest Florida (Havana)
- ☐ Suwannee River (Live Oak)
- ☐ Southwest Florida (Brooksville)
- ☐ St. Johns River (Palatka)
- ☒ South Florida (West Palm Beach)

b. Domestic Wastewater Treatment Facility Information

Enter the name of the facility, the DEP identification number, disinfection level,^a permitted capacity, and annual average flow for each treatment facility providing reclaimed water to this reuse system.

Facility Name	DEP Identification Number	Disinfection Level ^a	Permitted Capacity (mgd)	Average Flow (mgd)
North District WWTP	5013M02271	HB*	112.50	93.03
Total Treated Wastewater			112.50	93.03

^a Enter one of the following codes for disinfection level for each treatment facility:

HI = High-level disinfection, as described in Rule 62-600.440(5), F.A.C.

IM = Intermediate disinfection, as described in Rule 62-600.440(6), F.A.C.

BA = Basic disinfection, as described in Rule 62-600.440(4), F.A.C.

LL = Low-level disinfection, as described in Rule 62-600.440(7), F.A.C.

HB = High-level disinfection & basic disinfection for portions of the treated flow.

FT = Full treatment disinfection, as described in Rule 62-610.563(3)(b), F.A.C.

*High-level disinfection for NDWWTP 1.5 MGD Reuse System only.

Part III - Reclaimed Water and/or Effluent Available for Reuse or Disposal

Source of Water	Average Flow (mgd)
Treated Wastewater [Enter the total from bottom of table in Part II]	93.03
Supplemental Water Supplies (Enter the flow for each supplemental water source added by the utility)	
Surface Water	0
Stormwater	0
Ground Water	0
Drinking Water	0
Demineralization Concentrate (Blended with final reclaimed water only)	0
Water Recovered from ASR ^b	0
Total Water Available for Reuse or Disposal [Should equal the total in Part VI of this form]	93.03

^b Aquifer Storage and Recovery (ASR) - This activity is described in Rule 62-610.466, F.A.C. If you have an ASR system included in your permit for the reuse system, please make separate entries in both Part III (for the total average flow withdrawn from the ASR well) and in Part VI (for the total average flow injected into the ASR well).

Note: Average Flow is amount of effluent available for reuse. Permitted capacity is based on effluent discharged.

Part IV - Reuse

For each reuse activity, enter the permitted capacity, average flows, and acreage. Do not duplicate any of these entries in Part V of this form. Using available flow records, other available information, and your best judgment, please allocate the average flows for all treatment facilities among the reuse types listed in this part. Make discrete entries (do not show ranges). Show totals at the bottom of the table.

Reuse Type	Reuse Sub-Type	Part	Capacity (mgd)	Flow (mgd)	Area (acres)
Public Access Areas & Landscape Irrigation	Golf Course Irrigation	III			
	Residential Irrigation	III			
	Other Public Access Areas	III	1.5	0.092	40
Agricultural Irrigation & Sprayfields	Edible Crops (Be sure to attach the inventory of edible crop irrigation. See Part X of this form.)	III			
	Grass, Pasture, Other Crops	II			
Ground Water Recharge & Indirect Potable Reuse	Rapid Infiltration Basins (Including Some Perc Ponds) ^c	IV			
	Absorption Fields ^c	IV			
	Surface Water Augmentation (Discharge to Class I Waters)	V			
	Injection to Potable Aquifers	V			
Industrial	At Treatment Plant	VII	2.94	2.88	
	At Other Facilities	VII			
Toilet Flushing		III			
Fire Protection		III			
Wetlands					
Other (Specify)					
Total Reuse [Enter total flow on Line 1 in Part VI of this form.]			4.44	2.972	40

^c To be considered "reuse," either of the following conditions must exist:

* There are multiple basins or absorption fields that are routinely wetted, dried, and maintained in accord with Part IV of Chapter 62-610, F.A.C., or

* Continuously-loaded ponds must meet the higher treatment/disinfection requirements in Rule 62-610.525, F.A.C. If neither condition is met, the perc pond or absorption field is "effluent disposal" and should be recorded in Part V in this form (under "Other").

Part V - Effluent Disposal

For each effluent disposal activity, enter the permitted capacity and average flow. Do not duplicate any of these entries in Part IV of this form. Using available flow records, other available information, and your best judgment, please allocate the average flows for all treatment facilities among the effluent disposal types listed in this part. Make discrete entries (do not show ranges) for capacity and flow. Show totals at the bottom of the table.

Disposal Type	Disposal Sub-Type	Permitted Capacity (mgd)	Average Flow (mgd)
Surface Water Discharges	Ocean Outfall	112.5	88.44
	To Coastal or Estuarine Waters		0
	To Wetlands		0
	To Other Surface Waters		0
Deep Well Disposal		33.9	4.57
Other (specify)	Sludge Transfer to Central District Plant	N/A	3.77
Total Flow Disposed [Enter total flow on Line 2 in Part VI of this form.]		112.50	96.78

Part VI - Summary of Reuse and Disposal

Reuse or Disposal Activity	Average Flow (mgd)
1. Reuse (From bottom of Part IV of this form)	2.972
2. Effluent Disposal (From bottom of Part V)	96.78
3. Flow Stored in ASR (See note ^b on ASR in Part III.)	0
Total (Should equal the total in Part III of this form.) ^d	99.75

^d The totals in Parts III and VI will not be equal if one of the following conditions exists (check as appropriate):

- ☐ The reuse system includes an ASR system and the amounts injected and withdrawn during the year differ.
- ☒ The reuse system includes one or more reuse activities in which reclaimed water is returned to the treatment facility after its use, where it is then available for reuse or disposal.

Effluent flow is metered after it feeds the reuse system.

Part of the plant influent flow is diverted to the Central District plant as a sludge slurry.

Part VII – Reuse Activities, Numbers of Customers, and Backup Discharges

1. How many single-family residences have reclaimed water service? None
2. How many golf courses are irrigated using reclaimed water? None
3. How many parks or playgrounds are irrigated using reclaimed water? None
4. How many schools are irrigated using reclaimed water? 1, Florida International University North Campus
5. Is reclaimed water used to flush toilets? ☐ Yes ☒ No If yes, list locations where reclaimed water is used for toilet flushing.

6. Is reclaimed water used for fire protection? ☒ No ☐ Yes, in sprinkler systems
☐ Yes, in fire hydrants ☐ Yes, other (please describe) _____

7. How many cooling towers use reclaimed water from this reuse system? None
8. List or describe any unique or unusual uses of reclaimed water. _____
Flushing, washdown, pump seal lubricant and WWTP on-site irrigation.

9. Is there a surface water discharge that serves as a backup discharge for the reuse system?
☐ No ☐ Yes, a Limited Wet Weather Discharge permitted under Rule 62-610.860, F.A.C.
☐ Yes, permitted under the APRICOT Act [Section 403.086(7), F.S.]
☒ Yes, permitted under other rules governing surface water discharges
10. Do you require construction of reclaimed water piping in new residential or other developments? **Yes, construction of reclaimed water piping is required for new developments with a demand of one million gallons per day or greater.**
☒ Yes ☐ No
11. Do you require connection to the reclaimed water system when reclaimed water service becomes available?
☐ Yes ☒ No

Part VIII – Cross-Connection Control Activities

Rule 62-610.469, F.A.C., imposes cross-connection control requirements on reuse systems permitted under Part III of Chapter 62-610, F.A.C. This includes requirements for the implementation of cross-connection control programs by all public water supply systems serving areas that are within the general reclaimed water service area. Color-coding, labeling, and separation distance requirements are included. In addition, inspections within the reclaimed water service area are required. For purposes of this form, "cross-connection" means a pipe-to-pipe connection between drinking water pipes and reclaimed water pipes.

1. Are all public water supply systems serving areas that are within the general reuse service area actively implementing and enforcing their cross-connection control programs? ☒ Yes ☐ No

Have all of these cross-connection control programs been accepted by the DEP or the approved county health department? ☒ Yes ☐ No

2. How many illegal cross-connections have been identified during the reporting period? None

How many of these cross-connections have been eliminated? N/A

Please, attach a description of identified cross-connections and efforts taken to eliminate them.

3. How many new connections were made to the reclaimed water system during the reporting period? None

How many of the new reclaimed water connections were inspected at the time of initial connection? N/A

4. How often are the reclaimed water connections of existing residential reclaimed water customers inspected (i.e., daily, weekly, monthly, annually)? N/A

How often are the reclaimed water connections of existing non-residential reclaimed water customers inspected (i.e., daily, weekly, monthly, annually)? N/A

5. In addition to the number of new connections inspected in Item 3 above, how many existing connections were inspected during the reporting period? N/A

Part IX - Rates Charged for the Use of Reclaimed Water

Please, list the fees charged for the use of reclaimed water. Please do not enter wastewater or sewer charges. If reclaimed water is provided at no cost, enter zeroes in both blanks. If the fee structure includes both flat rate and gallonage charge components, make a positive entry in both spaces. Make all entries in the units shown.

1. How much do you charge a single-family residential customer (assume a 0.2-acre lot) for the use of reclaimed water?

Flat rate (\$/month/connection) N/A

Gallonage charge (cents/1000 gal.) N/A

2. How much do you charge non-residential customers, such as golf courses, (assume 0.1 mgd on a 50-acre site) for the use of reclaimed water?

Flat rate (\$/month/connection) N/A

Gallonge charge (cents/1000 gal.) N/A

Part X - Required Attachments

Check, as appropriate, and attach the required documentation.

- ☐ **Inventory of Edible Crop Irrigation** - If reclaimed water is used to irrigate edible crops at commercial agricultural sites, attach a copy of the current edible crop irrigation inventory as required by Rules 62-610.475 and 62-610.870, F.A.C. The inventory shall include the following information:

- a. Name of the agricultural operation.
- b. Name and telephone number of the owner or operator of the agricultural operation.
- c. Address of the agricultural operation.
- d. Edible crops irrigated using reclaimed water.
- e. Type of application (irrigation) method used.
- f. Approximate area (acres) under irrigation using reclaimed water on which edible crops are grown.

- ☒ **Inventory of Storage Facilities** - If this reuse system was permitted under Part III of Chapter 62-610, F.A.C., attach a copy of the current inventory of storage facilities, as required by Rules 62-610.464, 62-610.830, and 62-610.870, F.A.C. The inventory shall include the following information:

- a. Name or identifier for the storage system.
- b. Location.
- c. Function of the storage system (system storage or reject storage).
- d. Type of facility (covered tank, uncovered tank, lined pond, unlined pond).
- e. Indication of whether or not the storage facility is a water of the state or discharges to a water of the state.
- f. Distance to the nearest public water supply well.
- g. Distance to the nearest potable water supply well, which is not a public water supply well.
- h. Volume of each storage tank/pond and the total storage volume of all storage tanks and ponds (in units of million gallons).

- ☒ **Summary of Public Notification Program** - If this reuse system was permitted under Part III of Chapter 62-610, F.A.C., attach a summary of the public notification program activities during the reporting period, as required by Rule 62-610.468(6), F.A.C. The summary shall include the following:

- a. Details of written public notification activities (include copies of written notices).
- b. Summary of activities involving the news media.
- c. Use of advisory signs.
- d. Other public notification activities.

☐ **Summary of Metering and Rate Structure** - As noted in 403.064(16), Florida Statutes, utilities implementing reuse projects are encouraged to meter use of reclaimed water by all end users and to charge for the use of reclaimed water based on the actual volume used when such metering and charges can be shown to encourage water conservation. Metering and the use of volume-based rates are effective water management tools for the following reuse activities: residential irrigation, agricultural irrigation, industrial uses, landscape irrigation, irrigation of other public access areas, commercial and institutional uses such as toilet flushing, and transfers to other reclaimed water utilities. As required by 403.064(16), F.S., if this reuse system provides reclaimed water for any of the uses listed above, attach a summary of the utility's metering activities and the rate structure that the utility currently employs or plans to employ. The summary shall include the following:

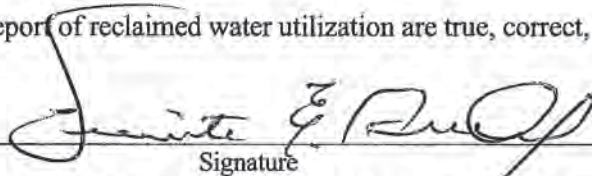
- a. Number of meters employed to monitor volume of reclaimed water used by customers.
- b. If information is available, please provide per capita reclaimed water use for areas that meter and for unmetered areas. If available, please provide historical per capita usage data for before and after the utility began metering reclaimed water.
- c. Provide information on the type of rate structure (i.e., inclining or declining block rates) for reclaimed water employed by the utility.
- d. Provide a description of the utility's use of master meters (i.e., for a subdivision) or the use of individual meters (i.e., for single-family residential customers).
- e. Provide a summary of the utility's plans for metering reclaimed water customers.

☐ None of these items are required for this reuse system.

Part XI - Permittee's Certification

I certify that the statements made in this report of reclaimed water utilization are true, correct, and complete to the best of my knowledge and belief.

Date: December 22, 2008


Signature

Phone: (786) 552-8116

Vicente E. Arrebola, P.E. Assistant Director, Wastewater
Name and Title (please print/type)

Company Name: Miami-Dade Water and Sewer Department

Address: PO Box 330316

City/State/Zip Code: Miami, FL 33233-0316

E-Mail: arrebv@miamidade.gov



Water & Sewer
P. O. Box 330316 • 3071 SW 38th Avenue
Miami, Florida 33233-0316
T 305-665-7471

miamidade.gov

Carlos Alvarez, Mayor

December 22, 2008

CERTIFIED: 7003 1680 0004 5547 7825

ADA Coordination
Agenda Coordination
Animal Services
Art in Public Places
Audit and Management Services
Aviation
Building
Building Code Compliance
Business Development
Capital Improvements
Citizens' Independent Transportation Trust
Commission on Ethics and Public Trust
Communications
Community Action Agency
Community & Economic Development
Community Relations
Consumer Services
Corrections & Rehabilitation
Cultural Affairs
Elections
Emergency Management
Employee Relations
Empowerment Trust
Enterprise Technology Services
Environmental Resources Management
Fair Employment Practices
Finance
Fire Rescue
General Services Administration
Government Information Center
Historic Preservation
Homeless Trust
Housing Agency
Housing Finance Authority
Human Services
Independent Review Panel
International Trade Consortium
Juvenile Services
Medical Examiner
Metro-Miami Action Plan
Metropolitan Planning Organization
Park and Recreation
Planning and Zoning
Police
Procurement Management
Property Appraisal
Public Library System
Public Works
Safe Neighborhood Parks
Seaport
Solid Waste Management
Strategic Business Management
Team Metro
Transit
Task Force on Urban Economic Revitalization
Vizcaya Museum And Gardens
Water & Sewer

Ms. Shanin Speas-Frost, P.E.
DEP Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Re: Miami-Dade Water and Sewer Department
Central District Wastewater Treatment Plant, Permit No. FLA 024805-002
Annual Reuse Report

Dear Ms. Speas-Frost:

Attached, please find the referenced Annual Reuse Report for the fiscal year ending September 30, 2008, submitted in accordance with Rule 62-610.870, F.A.C.

Please contact me at (786) 552-8116 or Mr. Richard O'Rourke P.E. at (786) 552-8123 if you require any additional information.

Sincerely,

Vicente E. Arrebola, P.E.
Assistant Director, Wastewater

VEA/RMO/mc

c: Todd R. Brown, FDEP/WPB
Curt Thompson, SFWMD

Attachment: Central District Wastewater Treatment Plant, 2007/2008
Annual Reuse Report

Delivering Excellence Every Day

L08239FDEP-CD-Reuse.docx



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

ANNUAL REUSE REPORT

Part I - Instructions

1. This form is to be submitted on or before January 1 following the completion of each fiscal year (October 1 through September 30). Submittal is required by Rule 62-610.870, F.A.C. This report will be used to develop and maintain a reuse inventory. It will not be used for determination of compliance with permit limitations, other than requirements to submit this report. If flow monitoring information is not available for individual reuse types or types of users, please provide your best estimates of flows allocated to individual reuse types or types of users.
2. Submit one copy (including all attachments) to each of the following three addresses:
 - a. DEP Water Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
 - b. The appropriate DEP district office (attention Domestic Wastewater Program).
 - c. The appropriate water management district.
3. Please type or print legibly. Submit all pages of this form.
4. Completion of this report is required for all domestic wastewater facilities having permitted capacities of 0.1 mgd or larger which contribute reclaimed water to one or more reuse systems permitted under Chapter 62-610, F.A.C. This form is to be completed annually for each separate reuse system. For purposes of this form, "reuse system" means a network of pipes, pumping facilities, storage facilities, and appurtenances designed to convey and distribute reclaimed water from one or more domestic wastewater treatment facilities to one or more users of reclaimed water.
5. Use the units specified in the form. For flows, show annual average flows (in mgd). This can be obtained by averaging daily flows over a 365-day period, dividing the total annual volume by 365, or by averaging the 12 monthly average flow values.
6. Be sure to submit the required attachments (see Part X on pages 8 and 9 of this form).
7. The cover sheet of your permit will identify portions of your project classified as "reuse" and portions classified as "effluent disposal." Rule 62-610.810, F.A.C., lists the criteria for classifying projects (or portions of projects) as "reuse" or "effluent disposal."

Part II - General Information

1. Reporting Period: October 1, 2007 through September 30, 2008

2. Date Submitted December 22, 2008

3. Person Completing This Form

Name Mario J. Campa

Title Engineer 1

Organization Miami-Dade Water and Sewer Department

Mailing Address PO Box 330316

City/State/Zip Code Miami, FL 33233-0316

Telephone (786) 552-8125

E-mail mjcamp@miamidade.gov

4. Reuse System Name Central District Wastewater Treatment Plant / In-Plant Reuse System

5. Domestic Wastewater Treatment Facilities Providing Reclaimed Water to This Reuse System

a. Location of Facilities

City Miami County Miami-Dade

DEP District (check one):

- ☐ Northwest (Pensacola)
- ☐ Northeast (Jacksonville)
- ☐ Southwest (Tampa)
- ☐ Central (Orlando)
- ☒ Southeast (West Palm Beach)
- ☐ South (Ft. Myers)

Water Management District (check one):

- ☐ Northwest Florida (Havana)
- ☐ Suwannee River (Live Oak)
- ☐ Southwest Florida (Brooksville)
- ☐ St. Johns River (Palatka)
- ☒ South Florida (West Palm Beach)

b. Domestic Wastewater Treatment Facility Information

Enter the name of the facility, the DEP identification number, disinfection level,^a permitted capacity, and annual average flow for each treatment facility providing reclaimed water to this reuse system.

Facility Name	DEP Identification Number	Disinfection Level ^a	Permitted Capacity (mgd)	Average Flow (mgd)
Central District WWTP	5013M00797	HB*	143	117.4
Total Treated Wastewater			143.00	117.40

^a Enter one of the following codes for disinfection level for each treatment facility:

HI = High-level disinfection, as described in Rule 62-600.440(5), F.A.C.

IM = Intermediate disinfection, as described in Rule 62-600.440(6), F.A.C.

BA = Basic disinfection, as described in Rule 62-600.440(4), F.A.C.

LL = Low-level disinfection, as described in Rule 62-600.440(7), F.A.C.

HB = High-level disinfection & basic disinfection for portions of the treated flow.

FT = Full treatment disinfection, as described in Rule 62-610.563(3)(b), F.A.C.

*High-level disinfection for CDWWTP/On-site Reuse System only.

Part III - Reclaimed Water and/or Effluent Available for Reuse or Disposal

Source of Water	Average Flow (mgd)
Treated Wastewater [Enter the total from bottom of table in Part II]	117.40
Supplemental Water Supplies (Enter the flow for each supplemental water source added by the utility)	
Surface Water	0
Stormwater	0
Ground Water	0
Drinking Water	0
Demineralization Concentrate (Blended with final reclaimed water only)	0
Water Recovered from ASR ^b	0
Total Water Available for Reuse or Disposal [Should equal the total in Part VI of this form]	117.40

^b Aquifer Storage and Recovery (ASR) - This activity is described in Rule 62-610.466, F.A.C. If you have an ASR system included in your permit for the reuse system, please make separate entries in both Part III (for the total average flow withdrawn from the ASR well) and in Part VI (for the total average flow injected into the ASR well).

Note: Average Flow is amount of effluent available for reuse. Permitted capacity is based on effluent discharged.

Part IV - Reuse

For each reuse activity, enter the permitted capacity, average flows, and acreage. Do not duplicate any of these entries in Part V of this form. Using available flow records, other available information, and your best judgment, please allocate the average flows for all treatment facilities among the reuse types listed in this part. Make discrete entries (do not show ranges). Show totals at the bottom of the table.

Reuse Type	Reuse Sub-Type	Part	Capacity (mgd)	Flow (mgd)	Area (acres)
Public Access Areas & Landscape Irrigation	Golf Course Irrigation	III			
	Residential Irrigation	III			
	Other Public Access Areas	III			
Agricultural Irrigation & Sprayfields	Edible Crops (Be sure to attach the inventory of edible crop irrigation. See Part X of this form.)	III			
	Grass, Pasture, Other Crops	II			
Ground Water Recharge & Indirect Potable Reuse	Rapid Infiltration Basins (Including Some Perc Ponds) ^c	IV			
	Absorption Fields ^c	IV			
	Surface Water Augmentation (Discharge to Class I Waters)	V			
	Injection to Potable Aquifers	V			
Industrial	At Treatment Plant	VII	7.84 Est.	5.80	
	At Other Facilities	VII			
Toilet Flushing		III			
Fire Protection		III			
Wetlands					
Other (Specify)	At treatment plant (On-site)		0.038	0.10	
Total Reuse [Enter total flow on Line 1 in Part VI of this form.]			7.878 est.	5.900	

^c To be considered "reuse," either of the following conditions must exist:

* There are multiple basins or absorption fields that are routinely wetted, dried, and maintained in accord with Part IV of Chapter 62-610, F.A.C., or

* Continuously-loaded ponds must meet the higher treatment/disinfection requirements in Rule 62-610.525, F.A.C. If neither condition is met, the perc pond or absorption field is "effluent disposal" and should be recorded in Part V in this form (under "Other").

Part V - Effluent Disposal

For each effluent disposal activity, enter the permitted capacity and average flow. Do not duplicate any of these entries in Part IV of this form. Using available flow records, other available information, and your best judgment, please allocate the average flows for all treatment facilities among the effluent disposal types listed in this part. Make discrete entries (do not show ranges) for capacity and flow. Show totals at the bottom of the table.

Disposal Type	Disposal Sub-Type	Permitted Capacity (mgd)	Average Flow (mgd)
Surface Water Discharges	Ocean Outfall	143	114.7
	To Coastal or Estuarine Waters		
	To Wetlands		
	To Other Surface Waters		
Deep Well Disposal		0	0
Other (specify)			
Total Flow Disposed [Enter total flow on Line 2 in Part VI of this form.]		143.00	114.70

Part VI - Summary of Reuse and Disposal

Reuse or Disposal Activity	Average Flow (mgd)
1. Reuse (From bottom of Part IV of this form)	5.9
2. Effluent Disposal (From bottom of Part V)	114.7
3. Flow Stored in ASR (See note ^b on ASR in Part III.)	0
Total (Should equal the total in Part III of this form.) ^d	120.60

^d The totals in Parts III and VI will not be equal if one of the following conditions exists (check as appropriate):

- ☐ The reuse system includes an ASR system and the amounts injected and withdrawn during the year differ.
- ☒ The reuse system includes one or more reuse activities in which reclaimed water is returned to the treatment facility after its use, where it is then available for reuse or disposal.

Effluent flow is metered after it feeds the reuse system.

Part VII – Reuse Activities, Numbers of Customers, and Backup Discharges

1. How many single-family residences have reclaimed water service? None
2. How many golf courses are irrigated using reclaimed water? None
3. How many parks or playgrounds are irrigated using reclaimed water? None
4. How many schools are irrigated using reclaimed water? None
5. Is reclaimed water used to flush toilets? ☐ Yes ☒ No If yes, list locations where reclaimed water is used for toilet flushing.
6. Is reclaimed water used for fire protection? ☒ No ☐ Yes, in sprinkler systems
☐ Yes, in fire hydrants ☐ Yes, other (please describe)
7. How many cooling towers use reclaimed water from this reuse system? None
8. List or describe any unique or unusual uses of reclaimed water.
Flushing, washdown, pump seal lubricant and WWTP on-site potable water replacement.
9. Is there a surface water discharge that serves as a backup discharge for the reuse system?
☐ No ☐ Yes, a Limited Wet Weather Discharge permitted under Rule 62-610.860, F.A.C.
☐ Yes, permitted under the APRICOT Act [Section 403.086(7), F.S.]
☒ Yes, permitted under other rules governing surface water discharges
10. Do you require construction of reclaimed water piping in new residential or other developments? **Yes, construction of reclaimed water piping is required for new developments with a demand of one million gallons per day or greater.**
☒ Yes ☐ No
11. Do you require connection to the reclaimed water system when reclaimed water service becomes available?
☐ Yes ☒ No

Part VIII – Cross-Connection Control Activities

Rule 62-610.469, F.A.C., imposes cross-connection control requirements on reuse systems permitted under Part III of Chapter 62-610, F.A.C. This includes requirements for the implementation of cross-connection control programs by all public water supply systems serving areas that are within the general reclaimed water service area. Color-coding, labeling, and separation distance requirements are included. In addition, inspections within the reclaimed water service area are required. For purposes of this form, "cross-connection" means a pipe-to-pipe connection between drinking water pipes and reclaimed water pipes.

1. Are all public water supply systems serving areas that are within the general reuse service area actively implementing and enforcing their cross-connection control programs? ☐ Yes ☐ No N/A

Have all of these cross-connection control programs been accepted by the DEP or the approved county health department? ☐ Yes ☐ No N/A

2. How many illegal cross-connections have been identified during the reporting period? N/A

How many of these cross-connections have been eliminated? N/A

Please, attach a description of identified cross-connections and efforts taken to eliminate them.

3. How many new connections were made to the reclaimed water system during the reporting period? N/A

How many of the new reclaimed water connections were inspected at the time of initial connection? N/A

4. How often are the reclaimed water connections of existing residential reclaimed water customers inspected (i.e., daily, weekly, monthly, annually)? N/A

How often are the reclaimed water connections of existing non-residential reclaimed water customers inspected (i.e., daily, weekly, monthly, annually)? N/A

5. In addition to the number of new connections inspected in Item 3 above, how many existing connections were inspected during the reporting period? N/A

Part IX - Rates Charged for the Use of Reclaimed Water

Please, list the fees charged for the use of reclaimed water. Please do not enter wastewater or sewer charges. If reclaimed water is provided at no cost, enter zeroes in both blanks. If the fee structure includes both flat rate and gallonage charge components, make a positive entry in both spaces. Make all entries in the units shown.

1. How much do you charge a single-family residential customer (assume a 0.2-acre lot) for the use of reclaimed water?

Flat rate (\$/month/connection) N/A

Gallonage charge (cents/1000 gal.) N/A

2. How much do you charge non-residential customers, such as golf courses, (assume 0.1 mgd on a 50-acre site) for the use of reclaimed water?

Flat rate (\$/month/connection) N/A

Gallonge charge (cents/1000 gal.) N/A

Part X - Required Attachments

Check, as appropriate, and attach the required documentation.

☐ **Inventory of Edible Crop Irrigation** - If reclaimed water is used to irrigate edible crops at commercial agricultural sites, attach a copy of the current edible crop irrigation inventory as required by Rules 62-610.475 and 62-610.870, F.A.C. The inventory shall include the following information:

- a. Name of the agricultural operation.
- b. Name and telephone number of the owner or operator of the agricultural operation.
- c. Address of the agricultural operation.
- d. Edible crops irrigated using reclaimed water.
- e. Type of application (irrigation) method used.
- f. Approximate area (acres) under irrigation using reclaimed water on which edible crops are grown.

☐ **Inventory of Storage Facilities** - If this reuse system was permitted under Part III of Chapter 62-610, F.A.C., attach a copy of the current inventory of storage facilities, as required by Rules 62-610.464, 62-610.830, and 62-610.870, F.A.C. The inventory shall include the following information:

- a. Name or identifier for the storage system.
- b. Location.
- c. Function of the storage system (system storage or reject storage).
- d. Type of facility (covered tank, uncovered tank, lined pond, unlined pond).
- e. Indication of whether or not the storage facility is a water of the state or discharges to a water of the state.
- f. Distance to the nearest public water supply well.
- g. Distance to the nearest potable water supply well, which is not a public water supply well.
- h. Volume of each storage tank/pond and the total storage volume of all storage tanks and ponds (in units of million gallons).

☐ **Summary of Public Notification Program** - If this reuse system was permitted under Part III of Chapter 62-610, F.A.C., attach a summary of the public notification program activities during the reporting period, as required by Rule 62-610.468(6), F.A.C. The summary shall include the following:

- a. Details of written public notification activities (include copies of written notices).
- b. Summary of activities involving the news media.
- c. Use of advisory signs.
- d. Other public notification activities.

☐ **Summary of Metering and Rate Structure** - As noted in 403.064(16), Florida Statutes, utilities implementing reuse projects are encouraged to meter use of reclaimed water by all end users and to charge for the use of reclaimed water based on the actual volume used when such metering and charges can be shown to encourage water conservation. Metering and the use of volume-based rates are effective water management tools for the following reuse activities: residential irrigation, agricultural irrigation, industrial uses, landscape irrigation, irrigation of other public access areas, commercial and institutional uses such as toilet flushing, and transfers to other reclaimed water utilities. As required by 403.064(16), F.S., if this reuse system provides reclaimed water for any of the uses listed above, attach a summary of the utility's metering activities and the rate structure that the utility currently employs or plans to employ. The summary shall include the following:

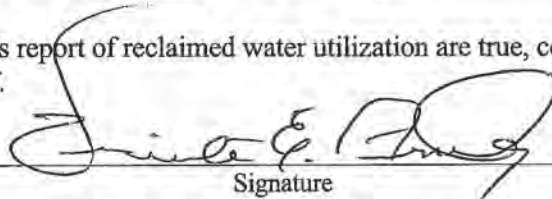
- a. Number of meters employed to monitor volume of reclaimed water used by customers.
- b. If information is available, please provide per capita reclaimed water use for areas that meter and for unmetered areas. If available, please provide historical per capita usage data for before and after the utility began metering reclaimed water.
- c. Provide information on the type of rate structure (i.e., inclining or declining block rates) for reclaimed water employed by the utility.
- d. Provide a description of the utility's use of master meters (i.e., for a subdivision) or the use of individual meters (i.e., for single-family residential customers).
- e. Provide a summary of the utility's plans for metering reclaimed water customers.

☒ None of these items are required for this reuse system.

Part XI - Permittee's Certification

I certify that the statements made in this report of reclaimed water utilization are true, correct, and complete to the best of my knowledge and belief.

Date: December 22, 2008



Signature

Phone: (786) 552-8116

Vicente E. Arrebola, P.E. Assistant Director, Wastewater

Name and Title (please print/type)

Company Name: Miami-Dade Water and Sewer Department

Address: PO Box 330316

City/State/Zip Code: Miami, FL 33233-0316

E-Mail: arrebv@miamidade.gov



Water & Sewer
P. O. Box 330316 • 3071 SW 38th Avenue
Miami, Florida 33233-0316
T 305-665-7471

miamidade.gov

Carlos Alvarez, Mayor

December 22, 2008

CERTIFIED: 7003 1680 004 5547 7832

ADA Coordination
Agenda Coordination
Animal Services
Art in Public Places
Audit and Management Services
Aviation
Building
Building Code Compliance
Business Development
Capital Improvements
Citizens' Independent Transportation Trust
Commission on Ethics and Public Trust
Communications
Community Action Agency
Community & Economic Development
Community Relations
Consumer Services
Corrections & Rehabilitation
Cultural Affairs
Elections
Emergency Management
Employee Relations
Empowerment Trust
Enterprise Technology Services
Environmental Resources Management
Fair Employment Practices
Finance
Fire Rescue
General Services Administration
Government Information Center
Historic Preservation
Homeless Trust
Housing Agency
Housing Finance Authority
Human Services
Independent Review Panel
International Trade Consortium
Juvenile Services
Medical Examiner
Metro-Miami Action Plan
Metropolitan Planning Organization
Park and Recreation
Planning and Zoning
Police
Procurement Management
Property Appraisal
Public Library System
Public Works
Safe Neighborhood Parks
Seaport
Solid Waste Management
Strategic Business Management
Team Metro
Transit
Task Force on Urban Economic Revitalization
Vizcaya Museum And Gardens
Water & Sewer

Ms. Shanin Speas-Frost, P.E.
DEP Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

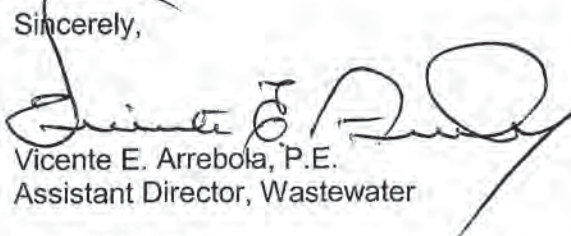
Re: Miami-Dade Water and Sewer Department
South District Wastewater Treatment Plant, Permit No. FLA 042137
Annual Reuse Report

Dear Ms. Speas-Frost:

Attached, please find the referenced Annual Reuse Report for the fiscal year ending September 30, 2008, submitted in accordance with Rule 62-610.870, F.A.C.

Please contact me at (786) 552-8116 or Mr. Richard O'Rourke P.E. at (786) 552-8123 if you require any additional information.

Sincerely,



Vicente E. Arrebola, P.E.
Assistant Director, Wastewater

VEA/RMO/mc

c: Todd R. Brown, FDEP/WPB
Curt Thompson, SFWMD

Attachment: South District Wastewater Treatment Plant, 2007/2008
Annual Reuse Report

Delivering Excellence Every Day

L08240FDEP-SD-Reuse.docx



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

ANNUAL REUSE REPORT

Part I - Instructions

1. This form is to be submitted on or before January 1 following the completion of each fiscal year (October 1 through September 30). Submittal is required by Rule 62-610.870, F.A.C. This report will be used to develop and maintain a reuse inventory. It will not be used for determination of compliance with permit limitations, other than requirements to submit this report. If flow monitoring information is not available for individual reuse types or types of users, please provide your best estimates of flows allocated to individual reuse types or types of users.
2. Submit one copy (including all attachments) to each of the following three addresses:
 - a. DEP Water Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
 - b. The appropriate DEP district office (attention Domestic Wastewater Program).
 - c. The appropriate water management district.
3. Please type or print legibly. Submit all pages of this form.
4. Completion of this report is required for all domestic wastewater facilities having permitted capacities of 0.1 mgd or larger which contribute reclaimed water to one or more reuse systems permitted under Chapter 62-610, F.A.C. This form is to be completed annually for each separate reuse system. For purposes of this form, "reuse system" means a network of pipes, pumping facilities, storage facilities, and appurtenances designed to convey and distribute reclaimed water from one or more domestic wastewater treatment facilities to one or more users of reclaimed water.
5. Use the units specified in the form. For flows, show annual average flows (in mgd). This can be obtained by averaging daily flows over a 365-day period, dividing the total annual volume by 365, or by averaging the 12 monthly average flow values.
6. Be sure to submit the required attachments (see Part X on pages 8 and 9 of this form).
7. The cover sheet of your permit will identify portions of your project classified as "reuse" and portions classified as "effluent disposal." Rule 62-610.810, F.A.C., lists the criteria for classifying projects (or portions of projects) as "reuse" or "effluent disposal."

Part II - General Information

1. Reporting Period: October 1, 2007 through September 30, 2008

2. Date Submitted December 22, 2008

3. Person Completing This Form

Name Mario J. Campa

Title Engineer 1

Organization Miami-Dade Water and Sewer Department

Mailing Address PO Box 330316

City/State/Zip Code Miami, FL 33233-0316

Telephone (786) 552-8125

E-mail mjcamp@miamidade.gov

4. Reuse System Name South District Wastewater Treatment Plant / On-Site Irrigation

5. Domestic Wastewater Treatment Facilities Providing Reclaimed Water to This Reuse System

a. Location of Facilities

City Miami County Miami-Dade

DEP District (check one):

- ☐ Northwest (Pensacola)
- ☐ Northeast (Jacksonville)
- ☐ Southwest (Tampa)
- ☐ Central (Orlando)
- ☒ Southeast (West Palm Beach)
- ☐ South (Ft. Myers)

Water Management District (check one):

- ☐ Northwest Florida (Havana)
- ☐ Suwannee River (Live Oak)
- ☐ Southwest Florida (Brooksville)
- ☐ St. Johns River (Palatka)
- ☒ South Florida (West Palm Beach)

b. Domestic Wastewater Treatment Facility Information

Enter the name of the facility, the DEP identification number, disinfection level,^a permitted capacity, and annual average flow for each treatment facility providing reclaimed water to this reuse system.

Facility Name	DEP Identification Number	Disinfection Level ^a	Permitted Capacity (mgd)	Average Flow (mgd)
South District WWTP	5013M04555	HB*	112.50	90.72
Total Treated Wastewater			112.50	90.72

^a Enter one of the following codes for disinfection level for each treatment facility:

HI = High-level disinfection, as described in Rule 62-600.440(5), F.A.C.

IM = Intermediate disinfection, as described in Rule 62-600.440(6), F.A.C.

BA = Basic disinfection, as described in Rule 62-600.440(4), F.A.C.

LL = Low-level disinfection, as described in Rule 62-600.440(7), F.A.C.

HB = High-level disinfection & basic disinfection for portions of the treated flow.

FT = Full treatment disinfection, as described in Rule 62-610.563(3)(b), F.A.C.

*High-level disinfection for SDWWTP/On-site Reuse System only.

Part III - Reclaimed Water and/or Effluent Available for Reuse or Disposal

Source of Water	Average Flow (mgd)
Treated Wastewater [Enter the total from bottom of table in Part II]	90.72
Supplemental Water Supplies (Enter the flow for each supplemental water source added by the utility)	
Surface Water	0
Stormwater	0
Ground Water	0
Drinking Water	0
Demineralization Concentrate (Blended with final reclaimed water only)	0
Water Recovered from ASR ^b	0
Total Water Available for Reuse or Disposal [Should equal the total in Part VI of this form]	90.72

^b Aquifer Storage and Recovery (ASR) - This activity is described in Rule 62-610.466, F.A.C. If you have an ASR system included in your permit for the reuse system, please make separate entries in both Part III (for the total average flow withdrawn from the ASR well) and in Part VI (for the total average flow injected into the ASR well).

Note: Average Flow is amount of effluent available for reuse. Permitted capacity is based on effluent discharged.

Part IV - Reuse

For each reuse activity, enter the permitted capacity, average flows, and acreage. Do not duplicate any of these entries in Part V of this form. Using available flow records, other available information, and your best judgment, please allocate the average flows for all treatment facilities among the reuse types listed in this part. Make discrete entries (do not show ranges). Show totals at the bottom of the table.

Reuse Type	Reuse Sub-Type	Part	Capacity (mgd)	Flow (mgd)	Area (acres)
Public Access Areas & Landscape Irrigation	Golf Course Irrigation	III			
	Residential Irrigation	III			
	Other Public Access Areas	III	0.443 Est.	0.236	
Agricultural Irrigation & Sprayfields	Edible Crops (Be sure to attach the inventory of edible crop irrigation. See Part X of this form.)	III			
	Grass, Pasture, Other Crops	II			
Ground Water Recharge & Indirect Potable Reuse	Rapid Infiltration Basins (Including Some Perc Ponds) ^c	IV			
	Absorption Fields ^c	IV			
	Surface Water Augmentation (Discharge to Class I Waters)	V			
	Injection to Potable Aquifers	V			
Industrial	At Treatment Plant	VII	3.73 Est.	4.87 est.	
	At Other Facilities	VII			
Toilet Flushing		III			
Fire Protection		III			
Wetlands					
Other (Specify)					
Total Reuse [Enter total flow on Line 1 in Part VI of this form.]			4.173 est.	5.106	

^c To be considered "reuse," either of the following conditions must exist:

- * There are multiple basins or absorption fields that are routinely wetted, dried, and maintained in accord with Part IV of Chapter 62-610, F.A.C., or
- * Continuously-loaded ponds must meet the higher treatment/disinfection requirements in Rule 62-610.525, F.A.C. If neither condition is met, the perc pond or absorption field is "effluent disposal" and should be recorded in Part V in this form (under "Other").

Part V - Effluent Disposal

For each effluent disposal activity, enter the permitted capacity and average flow. Do not duplicate any of these entries in Part IV of this form. Using available flow records, other available information, and your best judgment, please allocate the average flows for all treatment facilities among the effluent disposal types listed in this part. Make discrete entries (do not show ranges) for capacity and flow. Show totals at the bottom of the table.

Disposal Type	Disposal Sub-Type	Permitted Capacity (mgd)	Average Flow (mgd)
Surface Water Discharges	Ocean Outfall		
	To Coastal or Estuarine Waters		
	To Wetlands		
	To Other Surface Waters		
Deep Well Disposal		112.50	93.60
Other (specify)			
Total Flow Disposed [Enter total flow on Line 2 in Part VI of this form.]		112.50	93.60

Part VI - Summary of Reuse and Disposal

Reuse or Disposal Activity	Average Flow (mgd)
1. Reuse (From bottom of Part IV of this form)	5.106
2. Effluent Disposal (From bottom of Part V)	93.6
3. Flow Stored in ASR (See note ^b on ASR in Part III.)	0
Total (Should equal the total in Part III of this form.) ^d	98.71

^d The totals in Parts III and VI will not be equal if one of the following conditions exists (check as appropriate):

- ☐ The reuse system includes an ASR system and the amounts injected and withdrawn during the year differ.
- ☒ The reuse system includes one or more reuse activities in which reclaimed water is returned to the treatment facility after its use, where it is then available for reuse or disposal.
- Effluent flow is metered after it feeds the reuse system.

Part VII – Reuse Activities, Numbers of Customers, and Backup Discharges

1. How many single-family residences have reclaimed water service? None
2. How many golf courses are irrigated using reclaimed water? None
3. How many parks or playgrounds are irrigated using reclaimed water? None
4. How many schools are irrigated using reclaimed water? None
5. Is reclaimed water used to flush toilets? ☐ Yes ☒ No If yes, list locations where reclaimed water is used for toilet flushing. _____

6. Is reclaimed water used for fire protection? ☒ No ☐ Yes, in sprinkler systems
☐ Yes, in fire hydrants ☐ Yes, other (please describe) _____

7. How many cooling towers use reclaimed water from this reuse system? None
8. List or describe any unique or unusual uses of reclaimed water. _____
Flushing, washdown, pump seal lubricant and WWTP on-site irrigation.

9. Is there a surface water discharge that serves as a backup discharge for the reuse system?
☒ No ☐ Yes, a Limited Wet Weather Discharge permitted under Rule 62-610.860, F.A.C.
☐ Yes, permitted under the APRICOT Act [Section 403.086(7), F.S.]
☐ Yes, permitted under other rules governing surface water discharges
10. Do you require construction of reclaimed water piping in new residential or other developments? **Yes, construction of reclaimed water piping is required for new developments with a demand of**
☒ Yes ☐ No **one million gallons per day or greater.**
11. Do you require connection to the reclaimed water system when reclaimed water service becomes available?
☐ Yes ☒ No

Part VIII – Cross-Connection Control Activities

Rule 62-610.469, F.A.C., imposes cross-connection control requirements on reuse systems permitted under Part III of Chapter 62-610, F.A.C. This includes requirements for the implementation of cross-connection control programs by all public water supply systems serving areas that are within the general reclaimed water service area. Color-coding, labeling, and separation distance requirements are included. In addition, inspections within the reclaimed water service area are required. For purposes of this form, "cross-connection" means a pipe-to-pipe connection between drinking water pipes and reclaimed water pipes.

1. Are all public water supply systems serving areas that are within the general reuse service area actively implementing and enforcing their cross-connection control programs? ☒ Yes ☐ No

Have all of these cross-connection control programs been accepted by the DEP or the approved county health department? ☒ Yes ☐ No

2. How many illegal cross-connections have been identified during the reporting period? None

How many of these cross-connections have been eliminated? N/A

Please, attach a description of identified cross-connections and efforts taken to eliminate them.

3. How many new connections were made to the reclaimed water system during the reporting period? None

How many of the new reclaimed water connections were inspected at the time of initial connection? N/A

4. How often are the reclaimed water connections of existing residential reclaimed water customers inspected (i.e., daily, weekly, monthly, annually)? N/A

How often are the reclaimed water connections of existing non-residential reclaimed water customers inspected (i.e., daily, weekly, monthly, annually)? N/A

5. In addition to the number of new connections inspected in Item 3 above, how many existing connections were inspected during the reporting period? N/A

Part IX - Rates Charged for the Use of Reclaimed Water

Please, list the fees charged for the use of reclaimed water. Please do not enter wastewater or sewer charges. If reclaimed water is provided at no cost, enter zeroes in both blanks. If the fee structure includes both flat rate and gallonage charge components, make a positive entry in both spaces. Make all entries in the units shown.

1. How much do you charge a single-family residential customer (assume a 0.2-acre lot) for the use of reclaimed water?

Flat rate (\$/month/connection) N/A

Gallonage charge (cents/1000 gal.) N/A

2. How much do you charge non-residential customers, such as golf courses, (assume 0.1 mgd on a 50-acre site) for the use of reclaimed water?

Flat rate (\$/month/connection) N/A

Gallonge charge (cents/1000 gal.) N/A

Part X - Required Attachments

Check, as appropriate, and attach the required documentation.

- ☐ **Inventory of Edible Crop Irrigation** - If reclaimed water is used to irrigate edible crops at commercial agricultural sites, attach a copy of the current edible crop irrigation inventory as required by Rules 62-610.475 and 62-610.870, F.A.C. The inventory shall include the following information:

- a. Name of the agricultural operation.
- b. Name and telephone number of the owner or operator of the agricultural operation.
- c. Address of the agricultural operation.
- d. Edible crops irrigated using reclaimed water.
- e. Type of application (irrigation) method used.
- f. Approximate area (acres) under irrigation using reclaimed water on which edible crops are grown.

- ☐ **Inventory of Storage Facilities** - If this reuse system was permitted under Part III of Chapter 62-610, F.A.C., attach a copy of the current inventory of storage facilities, as required by Rules 62-610.464, 62-610.830, and 62-610.870, F.A.C. The inventory shall include the following information:

- a. Name or identifier for the storage system.
- b. Location.
- c. Function of the storage system (system storage or reject storage).
- d. Type of facility (covered tank, uncovered tank, lined pond, unlined pond).
- e. Indication of whether or not the storage facility is a water of the state or discharges to a water of the state.
- f. Distance to the nearest public water supply well.
- g. Distance to the nearest potable water supply well, which is not a public water supply well.
- h. Volume of each storage tank/pond and the total storage volume of all storage tanks and ponds (in units of million gallons).

- ☐ **Summary of Public Notification Program** - If this reuse system was permitted under Part III of Chapter 62-610, F.A.C., attach a summary of the public notification program activities during the reporting period, as required by Rule 62-610.468(6), F.A.C. The summary shall include the following:

- a. Details of written public notification activities (include copies of written notices).
- b. Summary of activities involving the news media.
- c. Use of advisory signs.
- d. Other public notification activities.

- ☐ **Summary of Metering and Rate Structure** - As noted in 403.064(16), Florida Statutes, utilities implementing reuse projects are encouraged to meter use of reclaimed water by all end users and to charge for the use of reclaimed water based on the actual volume used when such metering and charges can be shown to encourage water conservation. Metering and the use of volume-based rates are effective water management tools for the following reuse activities: residential irrigation, agricultural irrigation, industrial uses, landscape irrigation, irrigation of other public access areas, commercial and institutional uses such as toilet flushing, and transfers to other reclaimed water utilities. As required by 403.064(16), F.S., if this reuse system provides reclaimed water for any of the uses listed above, attach a summary of the utility's metering activities and the rate structure that the utility currently employs or plans to employ. The summary shall include the following:

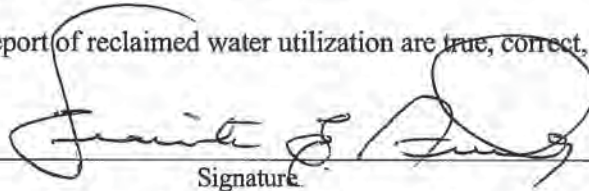
- a. Number of meters employed to monitor volume of reclaimed water used by customers.
- b. If information is available, please provide per capita reclaimed water use for areas that meter and for unmetered areas. If available, please provide historical per capita usage data for before and after the utility began metering reclaimed water.
- c. Provide information on the type of rate structure (i.e., inclining or declining block rates) for reclaimed water employed by the utility.
- d. Provide a description of the utility's use of master meters (i.e., for a subdivision) or the use of individual meters (i.e., for single-family residential customers).
- e. Provide a summary of the utility's plans for metering reclaimed water customers.

☒ None of these items are required for this reuse system.

Part XI - Permittee's Certification

I certify that the statements made in this report of reclaimed water utilization are true, correct, and complete to the best of my knowledge and belief.

Date: _____


Signature

Phone: (786) 552-8116

Vicente E. Arrebola, P.E. Assistant Director, Wastewater
Name and Title (please print/type)

Company Name: Miami-Dade Water and Sewer Department

Address: PO Box 330316

City/State/Zip Code: Miami, FL 33233-0316

E-Mail: arrebu@miamidade.gov