GUIDELINES for the

Pump Station Capacity Estimator

1. Why do you need to know if there is Adequate Sanitary Sewer Transmission Capacity?

All projects that are connected (or will be connected) to public sanitary sewers are reviewed by the Division of Environmental Resources Management (DERM), Department of Regulatory and Economic Resources (RER), to determine if the public sanitary sewer system serving the existing or proposed project has adequate transmission capacity. Pursuant to the current Federal Consent Decree between Miami-Dade County and United States of America, FDEP and the State of Florida, effective since December 6th, 2013 (Case: No. 1:12-cv-24400-FAM), projects that are served (or will be served) by public sanitary sewer systems that do not have adequate transmission capacity shall not be approved.

2. What is the purpose of the *Pump Station Capacity Estimator*?

The *Pump Station Capacity Estimator* (PSCE) was designed to give the user the ability to check the capacity of the sanitary sewer system serving a particular project (or projects) early in the planning phases or during the design phases (e.g., schematic design). It allows the user to estimate if any particular proposed development project, or increase in flow, could get a Conditional or Unconditional Allocation, based on the current moratorium status, or monthly performance, of the receiving sanitary sewage pump station (PS), or any downstream PS, operating in the County.

The PSCE application will also estimate if, based on the latest Elapsed Time (ET) information provided by the municipal utilities, a Sanitary Sewer Allocation is Not Allowed at the present for the proposed project.

3. Sanitary Sewer Pump Stations Overview

There are more than 2,000 sanitary sewage pump stations currently operating within the Miami-Dade County. Approximately 1,000 of these are operated by WASD, 300 by municipal utilities, and about 950 by private owners/operators. Each station is given a moratorium status depending on the latest information provided by the municipal utility, or pump station owner/operator.

The basic criterion for determining if an Allocation Letter can be issued is based on the PS's **Projected NAPOT**. if the Projected NAPOT for the station less than 10 hours per day on an annual average, Allocation may be issued as long as the Projected NAPOT does not exceed the 10 hours.

All previously issued Allocation Letters are included in the Projected NAPOT for each PS accordingly.

4. What do the Moratorium Codes mean?

If the code is **OK** or **AC** the stations may receive Unconditional Allocations until the proposed projected NAPOT reaches 10.00 hrs.

If the code is CM or CH, the station may receive Allocations for the new construction, but the projects will be Conditional to the completion of the work to bring the PS into compliance with the 10 hours, and will not receive a Certificate Of Occupancy (CO) until the utility/PS operator/owner has certified that they have completed the improvements to the station.

In some cases, if the code is CM or CH, Unconditional Allocations may be issued, but only if the project and the PSs meet the Fill-In or HAMA criterion.

If the code is **AM-IM-IN-FN-FH-TH-TM**, Allocations for new construction or increases in flow will not be issued.

Overall Disclaimer

The main purpose for making the *Pump Station Capacity Estimator (PSCE)* being made available to the public is to provide information about the sewer capacity availability for any new development project, or increase in flow, that will discharge into any of the County's sanitary sewer collection systems.

Please be aware that the information provided in the *Pump Station Capacity Estimator (PSCE) Result* is only correct as of the day the search was executed. Since the status of stations may change at any day, the search criteria may give different results at any other day, as some of the Pump Stations may reflect a change in their moratorium status.

Consequently, the information provided by this application does not constitute an Official Departmental determination or approval for your project, as it is only based on the current moratorium status of the station in the Department's database. A final and/or official determination will be given only at the day that the project is officially reviewed by the RER-Plan Review Section.

For any additional information about the **Pump Station Capacity Estimator (PSCE)** application, please contact the **RER–DERM Wastewater Permitting Section** at (305) 372-6600 or via e-mail at PSO@miamidade.gov

Pump Station Capacity Estimator Application

Glossary of Terms and/or Fields Used (in the order they appear in the application)

Search Criteria

Search Criteria	
Sanitary Sewer Utility *	-- Select an item --
Pump Station Number *	-- Select an item --
Proposed Projected Flow (GPD) *	1 GPD *(Only numbers are allowed)*
Project will require, or is part of, a Sewer Extension *	No
Submit	Clear

Sanitary Sewer Utility: Indicates the public sanitary sewer utility providing service to the property where the project will take place. Select accordingly.

Pump Station Number: Indicates the name and/or ID of the sanitary sewer pump station that will receive the flows from the proposed project.

Proposed Projected Flow (GPD): Is the total estimated sanitary sewer flow, or additional increase, for the proposed project.

Project will require, or is part of, a Sewer Extension*:* Select "Yes" or "No" if the proposed project is part of, or will require a Sewer Extension Permit.

Sewer Extension: A State Construction Permit issued by the Wastewater Permitting Section (WPS) of the Regulatory and Economic Resources Department, division of Environmental Resources Management (RER-DERM), to build a Domestic Wastewater Collection and Transmission System.

GPD: Gallons Per Day.

Search Criteria Detailed Result

Search Criteria Detailed Result	
Sanitary Sewer Utility	30 - UNINCORPORATED DADE COUNTY
Pump Station Number	0328
Proposed Projected Flow (GPD)	10 GPD
Project will require, or is part of, a Sewer Extension	No

Pump Station Downstream	Pump Station Owner	Pump Station Number	Moratorium Code	Proposed Hrs (Δt)	Projected NAPOT	Proposed NAPOT
Receiving PS	30	0328	OK	0.00	0.01	0.01
↓	30	0345	OK	0.00	2.47	2.47
↓↓	30	1310	OK	0.00	8.37	8.37
↓↓↓	30	ND	--	--	--	--
↓↓	30	0300	OK	0.00	2.81	2.81
↓↓↓	30	ND	--	--	--	--

Pump Station Downstream: The first PS receiving the sanitary sewer flows from the proposed project.

Pump Station Owner: The code for the sanitary sewer utility having jurisdiction upon the sanitary sewer PS. Select from the list.

Pump Station Number: The PS name or ID assigned by the utility to the first sanitary sewer PS receiving the flows or those in the downstream path.

Moratorium Code: The current Moratorium Status of the first sanitary sewer PS receiving the flows, or those in the downstream path.

Proposed Hrs (Δt): The delta increase in hours of operation that the proposed project will cause to the first sanitary sewer PS receiving the flows, or those in the downstream path.

Projected NAPOT: The current Projected NAPOT for the first sanitary sewer PS receiving the flows or those in the downstream path. It is the sum of the current NAPOT plus the flows reserved previously.

NAPOT: **N**ominal **A**verage **P**ump **O**perating **T**ime; Daily average operating hours, per month, per year, calculated for each PS.

Proposed NAPOT: The sum of the current Projected NAPOT plus the Proposed Hrs (Δt) for the project.

NEW PS MORATORIUM STATUS CODES

Effective Date: 12/09/2013

HAMA	= **H**igh **A**nnual **M**onthly **A**verage
RAP	= Remedial Action Plan
C/O	= **C**ertificate of **O**ccupancy
"H"	A status ending in **H** indicates that the HAMA is greater than 15.0 hrs.
The letter "**C** " at the beginning of the Code means a "**CONDITIONAL**" Status	
AC / FN	**Approved Corrected / Finished No-Allocations:** Once the utility certifies that RAP is complete, the PS status will be manually changed to AC, **if** the most recently reported monthly average run time (MART) is less than or equal to 10.0 hrs, **OR** changed to **FN** if the most recent reading was greater than 10.0 hrs, **OR** if there has not been a recent MART submitted for the station, provided that the HAMA for the station is less than 15.0 hrs. The station status date is set to the current date, at the time when the moratorium is changed from Conditional status to a Certified completed status. The station is checked monthly for 12 months after the ETs are provided and the station moratorium status reset accordingly. Staff will check the Projected NAPOT after 12 months of the certification of the RAP to determine if the RAP was successful or not. If the projected NAPOT is less than or equal to 10.0 hrs, the station is manually moved Unconditional allocations may be issued without restriction when the station is under AC status. No allocations may be issued when the station under FN status.
AH / FH	**Approved HAMA / Finished HAMA:** After the utility certifies the RAP to be complete, for PSs where the HAMA for the station is greater than 15.0 hrs, the PS status will be manually changed to AH if the most recently reported MART is less than or equal to 10.0 hours, OR to FH if the most recent MART was greater than 10.0 hrs, or if there has not been a recent reading provided for the station. The station status date is set to the current date, at the time when the moratorium is changed from Conditional status to a Certified completed status. The station is checked monthly after the ETs are provided and the PS moratorium status reset accordingly. Unconditional allocations may be issued without restriction when the station under AH status, except for those allocations subject to HAMA restrictions No allocations may be issued when the station under FH status. Staff will check the Projected NAPOT after 12 months of the certification of the RAP to determine if the RAP was successful or not. If the projected NAPOT is less than or equal to 10.0 hrs, the station is manually moved to OK or OH status, **otherwise** the station is put into AM.

AM	**Absolute Moratorium:** The station has shown to have inadequate capacity (Projected NAPOT above 10.0 hrs) after 12 months from the certification of the RAP. No allocations are allowed until station has been shown to have adequate capacity These moratorium status are changed (set/removed) manually.
CH	**Conditional HAMA**: The station is manually moved to CH status when a station is under IM and the RAP is provided and approved, and the HAMA for the station is more than 15.0 hrs. There is no limit to the amount of conditional allocations that may be issued for construction while under CH. No certificate of occupancy may be issued for the work permitted under CH until the RAP is certified complete by the utility. Once the RAP work is certified, all conditional allocations issued while the station under CH status, except those limited by HAMA restrictions, are cleared to receive a C/O. If the Projected NAPOT for the PS is less than 12.0 hours, some unconditional allocations may be issued within the limits described for Fill-in allocations. The PS will stay in this status until changed manually
CM	**Conditional Moratorium:** The PS will be manually placed under CM status when a station is under IM and the RAP is provided and approved and a RAP has been submitted, and the HAMA for the PS is equal to or less than 15.0 hrs. New allocations will be granted with the condition that the corresponding municipality shall not issue certificates of occupancy or completion until the proposed plan of corrective action is completed and implemented as planned. Once the work is certified, all conditional allocations issued while the station under CM status are cleared to receive a certificate of occupancy upon completion and certification of the facility If the Projected NAPOT for the station is less than 12.00 hours, some unconditional allocations may be issued within the limits described for Fill-in allocations. If the HAMA for the PS goes over 15.0 hrs, the computer will change the moratorium status to CH. Other than that, the station will stay undere CM status until changed manually. There is no limit to the amount of conditional allocations that may be issued while the PS is under CM.

CN	**Conditional New:** This status indicates that the PS is new and/or under construction. The PS record is created in the database to allow for Conditional allocations to be issued within the proposed PS basin. No C/Os may be issued/released for the projects permitted until the PS is certified complete by the utility. After the new PS construction is certified complete, all Conditional allocations issued under CN status are cleared to receive the C/O. The PS moratorium status is changed manually from CN to OK after the new PS construction is certified complete. No unconditional allocations are issued for stations under CN status.
IM	**Initial Moratorium:** A station is placed manually under IM when the Projected NAPOT is larger than 10.0 hrs and the station's previous moratorium was OK. The utility, or station owner, shall submit a RAP within 30 days to bring the station back in compliance with the federal criteria, including correction of an overflow condition. A station may also be placed into this status if there are excessive overflows associated with the station. Certifications will not be issued.
IN	**Incomplete:** PSs may be placed into IN status by the computer if there are no ET readings provided for one year, or may also be placed manually as conditions indicate. Stations are placed into IN status due to a lack of information necessary to determine if the station has adequate capacity. This might be a failure to provide ET readings, explain an overflow, or other causes. When the information is provided, the station is removed from IN status. Stations are only removed from IN status manually. No new allocations will be issued until the owner/operator corrects this condition.
OK	**OK Moratorium:** The PS under compliance with Chapter 24 and EPA Regulations (Projected NAPOT less than 10.0 hrs). PSs are switched from AC to OK **if** twelve (12) months after the proposed RAP was completed the PS's Projected NAPOT is less than 10.0 hrs. Certification may be issued without conditions. The HAMA for the station is equal to or less than 15.0 hrs.

OH	**OK HAMA:** The Projected NAPOT for the station is less than 10.0 hrs and the HAMA for the station is greater than 15.00 hours Unconditional allocations are allowed up to 10.0 hr for the Projected NAPOT, except for allocations subject to HAMA restrictions. **Notes:** 1) The computer system will track what is the highest monthly average run time (MART) for each station during the previous calendar year. 2) The cutoff point to differentiate between the status classes is whether or not the highest reading in this register is above 15.0 hrs 3) A station may alternate status as the values of the past year change. 4) The computer will automatically set the OH status when the HAMA goes over 15.00 hours. 5) Staff will check the set dates on the OH stations each month to see if a year has past since the status was set. If it has, staff will check to see if there have been any readings over 15.0 hrs since then. 5a) If so, staff will set the moratorium status date to the date of the latest reading over 15.0 hrs. 5b) If not, staff will check if a Peak Flow Capacity Study (PFCS) for the HAMA has been requested. 5c) If a PFCS requested, staff will change the moratorium status date to the current date. 5d) If no readings over 15 hrs and no PFCS requested in last 12 months then, staff will set the status date to the current date and change the status to OK.
RM	**Restricted Moratorium:** PS under RM status are restricted for new allocations only for a specific area(s) of the PS basin. Generally this is due to multiple overflows in a particular section of the collection system. Within the restricted area of the basin, the RM status is the same as IM status until a RAP is provided, then the status is the same as CM/CH status, depending on the HAMA reading. The rest of the PS basin is considered to under moratorium status OK/OH status, depending on the HAMA reading. These moratorium status is changed (set/removed) manually. All PSs under RM will be checked each month to determine if the Projected NAPOT goes over 10.0 hrs. If the PS Projected NAPOT goes over 10.0 hrs while the station is under RM status, the status will be manually changed to IM.

TH	**Temporary HAMA**: This moratorium status is set by the computer when the Projected NAPOT for the pump station exceeds 10.0 hrs, and The HAMA for the station is equal or greater than 15.0 hrs. If the Projected NAPOT for the station goes below 10.0 hrs, the computer will change the status back to OH. If by the end of the month, when the NAPOT report is created and the PS status is still under TH, the moratorium status will be manually changed to IM, and the status date changed to the current date. No allocations may be issued while the station under TH status.
TM	**Temporary Moratorium**. The computer database recalculates the Projected NAPOT on a daily basis and places PSs under TM if the Projected NAPOT is over the 10.0 hours. If by the end of the month the station's Projected NAPOT is still over the 10.0 hrs, the moratorium status is manually changed to IM or IN or AM, whichever applies. If the projected NAPOT for the station goes below 10.0 hrs, the computer will change the status back to OK. No Certification letters are issued while the station is under TM status. The HAMA for the station is equal to or less than 15.0 hrs.