

SECTION 11700 – LIFT STATIONS

GRAVITY SEWERS PREFERRED

- It is the goal of BCWS to provide for the conveyance of wastewater by natural gravity flow wherever and whenever possible. Lift stations will only be permitted when they are in conformance with the most recently revised version of the Butler County Land Use Plan. BCWS policies provide for the potential reimbursement of a portion of a Developer's costs of off-site trunk sewer extensions to facilitate this goal.
- A Developer proposing to provide sewer service to a new development by means of a lift station shall provide engineer's cost estimates of the following:
 - 1) All costs associated with construction of the lift station, force main, and other required sewer improvements, not including the cost of any easement(s), legal fees or any other cost associated with the acquisition of easements required for the project.
 - 2) All costs associated with construction of the most reasonable off-site gravity sewer that would provide natural gravity sewer service to the development, not including the cost of any easement(s), legal fees or any other cost associated with the acquisition of easements required for the project.
- No lift station will be allowed where the estimated cost to extend a gravity sewer to the site, minus any over sizing payable by the County, is less than the total cost estimate for construction of the lift station, force main, etc., plus all associated Supplemental Sewer Connection Fees. Potential reimbursements by the County for gravity sewer construction (per section 11400) shall also be considered in the cost comparison. Lift stations are not permissible to provide basement sanitary service when gravity service is feasible as described above.

ADDITIONAL COSTS OF LIFT STATIONS

- The installation of a lift station increases the cost of providing sewer service and transfers the burden of extending off-site trunk sewers and/or repairing, improving, and replacing the lift station to the County and its sewer customers.

DEFINITIONS OF PERMANENT AND TEMPORARY

- In general, all lift stations shall be considered permanent unless:
 - 1) A project exists on the BCWS 5-year Capital Improvements Plan that would eliminate the lift station.
 - 2) The Developer has specific, documented plans for eliminating the lift station within approximately five years.

- However, each lift station will be reviewed at the inception of design by BCWS to determine whether the lift station will be considered permanent or temporary. The criteria to be considered will include:
 - 1) Capacity of the lift station
 - 2) Complexity of operation
 - 3) Overflow impact upon customers
 - 4) Overflow impact upon the environment
 - 5) Location and ease of entry/exit for emergency equipment such as sludge trucks, etc.
 - 6) Proximity to the nearest gravity sewer and likelihood of a future sewer extension to eliminate the lift station
 - 7) Proximity to existing and proposed residential development
 - 8) All necessary easements obtained for the elimination sewer within the development boundary
 - 9) Other factors unique to a given lift station site

DESIGN AND CONSTRUCTION REQUIREMENTS

- All lift stations shall be designed and constructed in accordance with all BCWS current standards. These standards shall include, but not be limited to, the following:
 - 1) The lift station and force main shall be sized to handle the total upstream watershed, except for the pumps and motors, which shall be sized to handle twice the design peak flow of the proposed participating development (but not less than the total of the proposed participating development plus any existing development in the watershed) or the total upstream watershed, whichever is less. Lift station capacity shall include a peaking factor based on the number of ERUs to be served by the lift station, as follows:

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|---------------|---------------------------|
| 80-249 | ERU Peaking Factor = 4.00 |
| 250-499 | ERU Peaking Factor = 3.75 |
| 500-1,999 | ERU Peaking Factor = 3.50 |
| 2,000-7,499 | ERU Peaking Factor = 3.00 |
| 7,500 or more | ERU Peaking Factor = 2.7 |

Note: One (1) ERU is considered equivalent to one single-family residence or 400 gallons per day average usage

- 2) The lift station shall include a paved all-weather access roadway, fencing, an automatic transfer switch with a permanent standby generator or electric service connections to at least two independent utility substations, an adequate security system, a status-monitoring (SCADA) system connected to and consistent with BCWS' existing SCADA system, stainless steel control panel and other appropriate components, a bypass connection to the force main, and other features as required by the BCWS Wastewater Lift Station Requirements.
- 3) Certain requirements outlined in paragraphs 1 and 2 above may be modified or omitted for temporary lift stations at the discretion of the BCWS. These modifications and omissions will generally be limited to:

- a. Instead of being sized as described in paragraph 1, the lift station and force main may be sized for all existing and planned development (including development served by existing lift stations and all preliminary development plans) within the watershed, regardless of whether or not all such development is participating in the construction of the lift station.
 - b. Instead of an automatic transfer switch and permanent on-site generator, a manual transfer switch and auxiliary receptacle may be provided for connection of a portable generator.
 - c. Instead of a complete SCADA system, an approved phone dialer monitoring device may be provided.
- 4) No public lift station will be permitted for a proposed development of less than 40 ERUs or a watershed having an estimated ultimate development of less than 80 ERUs.
 - 5) A dry outfall sewer and associated easements to the downstream property line of the proposed development shall be installed by the Developer prior to acceptance of the lift station to facilitate future elimination of the lift station, unless said elimination is determined by BCWS to be impractical.

SUPPLEMENTAL SEWER CONNECTION FEES (PARTICIPATING DEVELOPMENT)

- In addition to Standard Sewer Connection Fees, the County will collect a Supplemental Sewer Connection Fee from each new lot that is dependent on a lift station within the County sewer system. Said supplemental fees shall be used to help offset the future costs of eliminating and/or repairing, improving, and replacing the lift station. Said supplemental fees shall be determined by the following formulas for all lots within the initial service area of the lift station (Proposed Participating Development), as established by the Developer responsible for installation of the lift station and approved by the County:

Supplemental Sewer Connection Fee = Seventy-five percent (75%) of the Standard Trunk Sewer Capacity Fee minus \$0.64 per Specific Lift Station Design ERU.

Effective January 1, 2009: Minimum fee = \$410.00, maximum fee \$1,920.00

Effective January 1, 2010: Minimum fee = \$430.00, maximum fee \$2,025.00

Effective January 1, 2011 Minimum fee = \$450.00, maximum fee \$2,145.00

- The number of Design ERUs is the number of ERUs for which the lift station (except pumps and motors) is designed and constructed, generally, the total number of ERU in the estimated ultimate development (total upstream watershed).
- Supplemental Sewer Connection Fees shall be paid prior to final approval and recording of the record plat for a development within the lift station service area. Said supplemental fees will no longer apply to new development tributary to a lift station that has been eliminated.

SEWER SERVICE TO NON-PARTICIPATING DEVELOPMENT

- Sewer service to upstream properties of the Proposed Participating Development for a lift station may be approved by the County provided there is adequate capacity in the existing sewer system, including said lift station, or the required additional capacity is provided by the Developer of the upstream properties. Such upstream properties shall be considered Non-Participating, unless the Developer of the upstream properties makes substantial improvements to the lift station with a per-lot cost proportionate to the initial per-lot cost of constructing the lift station as determined by BCWS.
- New development in the service area of a lift station constructed by the County shall be considered Non-Participating, unless the Developer of such development participates proportionately in the construction costs of the lift station and force main. Existing homes and other existing development with operable on-site sewage treatment systems in any lift station service area shall be considered Participating Development and shall pay the Supplemental Sewer Connection Fees for Participating Development in order to connect to the County sewer system. Petition projects constructed by the County on behalf of existing property owners with on-site treatment systems shall be considered participating and not subject to reimbursement.

SUPPLEMENTAL SEWER CONNECTION FEES (NON-PARTICIPATING DEVELOPMENT)

- In addition to Standard Sewer Connection Fees, the County will collect a Supplemental Sewer Connection Fee from each new lot that is dependent on a lift station within the County sewer system. Said supplemental fees shall be used to help offset the future costs of eliminating and/or repairing, improving, and replacing the lift station. Said supplemental fees shall be determined by the following formulas for all Non-Participating lots within the lift station service area:

Supplemental Sewer Connection Fee = One hundred and fifty percent (150%) of the Standard Trunk Sewer Capacity Fee minus \$1.28 per Specific Lift Station Design ERU.

Effective January 1, 2009: Minimum fee = \$820.00, maximum fee \$1,920.00

Effective January 1, 2010: Minimum fee = \$860.00, maximum fee \$2,025.00

Effective January 1, 2011 Minimum fee = \$900.00, maximum fee \$2,145.00

- The number of Design ERUs is the number of ERUs for which the lift station (except pumps and motors) is designed and constructed generally, the total number of ERUs in the estimated ultimate development (total upstream watershed).
- Supplemental Sewer Connection Fees shall be paid prior to final approval and recording of the record plat for a development within the lift station service area. Said supplemental fees will no longer apply to new development tributary to a lift station that has been eliminated.

PROPERTIES DEPENDENT ON MULTIPLE LIFT STATIONS

- The Supplemental Sewer Connection Fee for properties dependent on multiple lift stations shall be the greatest of the individual fees determined for each lift station. Said fee shall not be the sum of the individual fees for each lift station.

LIFT STATION OVER SIZING REIMBURSEMENT

- Up to one-half (1/2) of the Supplemental Sewer Connection Fees collected by the County for Non-Participating lots dependent on a particular lift station accepted after January 1, 1999, may be reimbursed to the Developer who constructed said lift station, provided said lift station was originally designed with capacity for said Non-Participating lots, and provided said fees are collected within 10 years of the acceptance of said lift station. However, no reimbursement of any fees collected prior to January 1, 2000, will be made. Reimbursement per lot will be limited to the difference between the Participating and Non-Participating Supplemental Sewer Connection Fee in effect for said lift station at the time of acceptance. Total reimbursement shall not exceed the Non-Participating share (by number of ERUs) of the actual documented construction costs for the lift station and force main.

REIMBURSEMENT FOR LIFT STATION ELIMINATION

- A portion of the Supplemental Sewer Connection Fees collected for a particular lift station may be reimbursed to a Developer who later installs a trunk sewer for the sole purpose of eliminating said lift station or who oversized a sewer to eliminate said lift station, provided such elimination is completed within 10 years of the acceptance of said lift station and the fees have not already been expended on repairs and improvements to said lift station. However, no reimbursement of any fees collected prior to January 1, 2000, will be made. Only the difference between the Non-Participating fees collected and the applicable Participating fees are reimbursable toward lift station elimination costs. No reimbursement of fees collected from properties dependent on multiple lift stations will be made unless all lift stations involved are eliminated or unless otherwise determined by the Director of BCWS. Total reimbursement shall not exceed the actual documented construction costs for the trunk sewer (or cost of over sizing per County policy) plus the costs for demolition of the lift station (if performed by the Developer).

Note: All reimbursement requests for lift stations over sizing including all supporting documentation must be submitted within 90 calendar days of acceptance for connection. The Director may extend the 90 days for an additional 30 calendar days for extenuating circumstances. Failure to submit all documentation will result in forfeit of reimbursement.

USAGE SURCHARGE

- Direct customers (not wholesale) served by a lift station will be charged an additional amount on their monthly sewer bill to cover routine operation and maintenance costs for said facility. The surcharge will be equal to ten percent (10%) of the standard residential sewer usage (volume) charge.

END OF SECTION