## **A Guidance Document for Locating Wastewater Treatment Facilities**

## Technical Publication WTS-21

## Nevada Division of Environmental Protection Bureau of Water Pollution Control Technical Services Branch



**Revised May 2017** 

## <u>Implementation of NAC 445.285 - Locating a Treatment Works</u>

Nevada Administrative Code (NAC) 445A.285 states that:

When locating the site for a wastewater treatment works, the designer shall attempt to select a site that is not:

- a) Within 984.3 feet (300 meters) of an occupied dwelling or other building; and/or
- b) Within the limits of a 100-year floodplain unless protected from the flood to the satisfaction of the Bureau of Water Pollution Control (BWPC); and
- c) No site may be approved by BWPC without having first been approved by local government.

The following BWPC policy will be used to implement NAC 445A.285:

- 1. In locating all structures which are designed to contain sewage, screening, grit, sludge or chemicals at a wastewater treatment facility, the designer shall conform to the following thresholds:
  - a) The structures must be located at least 1,000 feet away from a major highway, dwelling, or other building whose use is not compatible with wastewater treatment. If this is not practical, then;
  - b) The structures may be located within 1,000 feet but at least 200 feet away from a major highway, dwelling, or other building whose use is not compatible with wastewater treatment provided that:
    - i) There is 100% capture and treatment as approved by BWPC of odors from all raw sewage/influent facilities and all solids handling facilities (including drying beds) that are less than 1,000 feet from a major highway, dwelling or other building;
    - ii) If the treatment works is a wastewater lagoon then only a complete mix aerated lagoon (as per WTS-5) is acceptable.
  - c) The structures may be located within 200 feet but not less than 25 feet away from a major highway, dwelling, or other building whose use is not compatible with wastewater treatment provided that:
    - i) The odors from all structures which are designed to contain sewage, screening, grit, sludge or chemicals at the wastewater treatment facility is captured and fully treated as approved by BWPC.

- 2. All wastewater treatment designs submitted to BWPC must address corrosion and odors. The design also must address how the buffer zones indicated herein will be maintained. .
- 3. This policy applies to all new structures at wastewater treatment facilities constructed after the date of this memorandum. All existing treatment plants in non-compliance with this policy are encouraged to be renovated accordingly. If odors become a public issue with an existing treatment plant, the BWPC reserves the right to require compliance with the 1(b) or 1(c) above.