

STATE OF COLORADO

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
TELEPHONE: (303) 692-3500



AMENDMENT 1 -- RATIONALE

Colorado Discharge Permit System (CDPS)
General Permit
for Domestic Wastewater Treatment On-site Systems
with Design Capacity Equal to or Greater than 2,000 Gallons per Day
Permit COX-621000

I. Purpose of Amendment 1:

The Water Quality Control Division ("the Division") is providing modifications to *General Permit 621000 for Domestic Wastewater Treatment On-site Systems with Design Capacity Equal to or Greater than 2,000 Gallons per Day (GPD)* in order to clarify and refine the permit requirements and to address comments and concerns raised after the General Permit was issued on March 30, 2007.

II. Amendment 1 Changes:

- **Introduction:** The words "septic with" were added to the first sentence as follows: "In compliance with the provisions of the Colorado Water Quality Control Act (25 8 101 et seq., CRS, 1973 as amended), domestic wastewater treatment on-site systems, including septic and septic with advanced treatment systems, with average daily design capacity equal to or greater than 2,000 gallons per day are authorized to discharge from approved leachfield/absorption field locations throughout the State of Colorado to waters of the State." This text was added to clarify that the permit applies only to on-site (i.e., septic) systems.
- **Section V.A.5.** Text was added indicating that wastewater treatment works (WWTWs) subject to Colorado Watershed Protection Control Regulations (Regulation Nos. 71 through 75) may be required to install and monitor lysimeters. This change was made because the Watershed Protection Control Regulations include requirements for using lysimeters to demonstrate compliance with phosphorus loading limitations. This modification adds flexibility to the general permit monitoring requirements and expands the applicability of the general permit to on-site systems within watershed protected areas.
- **Section VI.A, Table 2.** This table was updated to eliminate a redundant row for TDS monitoring.
- **Section VI.C.1.** This section was added to summarize the general permit monitoring requirements and to indicate that on a case-by-case basis, the Division may increase or decrease the number of ground water monitoring wells required at the site in order to achieve: representative sampling of effluent from the treatment system, representative sampling of ambient ground water quality, and the determination of ground water flow direction. The Division may also require lysimeters in addition to, or in lieu of, ground water monitoring wells. This modification was made to give the Division more flexibility in determining the total number of ground water wells and/or lysimeters necessary to ensure the protection of human health and the environment. In some cases, such as for very small WWTWs with well-defined ground water flow direction, fewer than three monitoring wells may be adequate to achieve ground water monitoring objectives. In other cases, more than three wells may be necessary to achieve monitoring objects. Where ground water monitoring is not feasible, lysimeters may provide the best monitoring approach. Monitoring locations and any modifications from the monitoring requirements provided in the general permit will be defined in the Certification.

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- 1) **Section VI.C.2.** Text was modified to clarify the monitoring locations that must be proposed in the permit application.
- 2) **Section VI.C.5.** Text was added to provide general lysimeter installation and monitoring applicable to WWTWs that require lysimeters.

III. Public Notice Changes:

There were not public notice comments received or changes made.

Permit Writer:

Margo Griffin
January 10, 2008