

PolySeed®

Technical Report

Seasonal Changes

It's Getting Cold Out There!

The Impact of Seasonal Changes on BODs Test Results

Back-to-school, Halloween, Thanksgiving, Christmas...it's the season for festivity! Unfortunately, it's also the season for wastewater system changes that can have a negative impact on BOD5 test results. Winter 's colder water temperatures can cause super-saturation in samples and decreased daylight can cause algae slough-off. If not addressed, both of these common winter occurrences can result in BOD readings that are falsely high.

Regardless of your geographical location, keep seasonal changes in mind. You may not be facing a freeze, but no area is exempt from dropping temperatures and daylight savings. Even mild winters cause wastewater system changes that will impact BOD results.

When winter approaches, many laboratories in colder climates call in to ask if their PolySeed will still be effective if the bottle has been exposed to freezing temperatures during the shipping process. The answer to this question is yes, PolySeed will still be effective, even if the bottle has gotten very cold or become frozen during shipping.

NOTE: It is not uncommon to receive frozen product, especially GGA solution. If your shipment of GGA arrives frozen, do not panic! Simply bring the product to room temperature and mix well before use. The period of time in which the GGA solution was frozen will neither harm the product nor decrease its effectiveness during testing.

Because the bacteria in PolySeed are in spore form until hydrated, their effectiveness will not be diminished by temporary exposure to harsh environmental factors.

Bacteria in spore form are tough, so as long as the bottle of PolySeed is brought to room temperature and stored properly once it has been received, it will not be affected by the winter chill.

Use the guidelines below to ensure that your laboratory is storing PolySeed in optimal conditions. These guidelines should be followed by every laboratory, in every season – regardless of location or climate.

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The proper way to store PolySeed:

Temperature Range:

PolySeed should be stored between 65-80°F (18-25°C). If PolySeed has been stored outside of this range, microbial activity may be diminished.

Humidity:

PolySeed should be stored in a dry area. If PolySeed is stored near a source of moisture, microbial activity may be diminished. If the product inside the PolySeed capsule is difficult to pour into the dilution water, your PolySeed may have absorbed moisture during storage.

Location:

PolySeed should be stored away from any source of heat and light. This includes ovens, autoclaves, furnaces, and direct sunlight. Prolonged exposure to heat and light may diminish microbial activity.

NOTE: When storing PolySeed, make sure the bottle is tightly closed. If the bottle has not been kept closed, environmental conditions may adversely affect microbial activity.