Chapter 34A - Wells Proposed Ordinance

June 5, 2018 Santa Barbara County Board of Supervisors

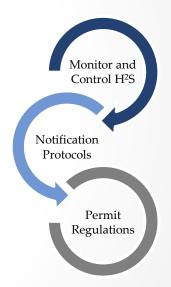






Summary

- Consider adopting an ordinance amending Chapter 34A-Wells to:
 - Establish requirements for monitoring and controlling the release of hydrogen sulfide gas as it relates to water well drilling any time well depth exceeds 1,200 feet;
 - Introduce protocols for notifications upon a hydrogen sulfide gas release;
 - Require that the driller notify the administrative authority prior to making any changes to the granted permit in terms of depth or diameter.





Background

The Recent Drought Caused:

- A decrease in water production in many wells
- Complete water production failure in some wells



 The result is that wells are being drilled deeper to ensure stable and longterm water supplies



Background

- The Risk of H²S is More Likely with Deeper Well Drilling
 - Hydrogen sulfide gas (H²S) is a colorless, highly toxic and explosive gas that can be released during water well drilling activities.
 - H²S has a distinctive "rotten egg" odor which can saturate olfactory senses.
 - H²S is considered immediately dangerous to life and health (IDLH) at 100 parts per million (ppm) in air.
 - In 2016, Goleta experienced an H²S release from well drilling activity in the area.
 - The "rotten-egg" smell of the gas travelled into nearby residential neighborhoods resulting in complaints of burning eyes and difficulty in breathing. Many people chose to evacuate their homes.



Non of Contraction

Provisions to Address H²S

Require Hydrogen Sulfide Gas Meters

• H²S Meter to be kept on-site and in operation during well drilling activities any time a well exceeds 1,200 feet in depth.

Notify Agencies and Implement Mitigation

- If/When Hydrogen Sulfide Gas is detected*, the well driller shall notify the following County agencies and initiate prompt and effective mitigations measures
 - Environmental Health Services
 - Air Pollution Control District
 - Office of Emergency Services



Adherence to Permit Specifications

 Notify the administrative authority prior to making any changes or deviations from an approved permit in terms of well depth or well diameter.

** at specified concentrations, for specified time periods, as laid out in the proposed ordinance*



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- Require that any changes to the granted permit be approved by the administrative authority.

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Thank You

