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1. No further APO's over Aquifer Recharge Zones.
2. Throughout the life of an APO, the APO owner must fund (pay for) an independent 3rd party to inspect at least once per month, without prior notice, to document the quarry is being operated (or not) per its development plan and approved permits. Each inspection report is to be submitted to the TCEQ and copied to the APO owner within 7-business days with the report posted to the TCEQ website for public access.
3. Require an updated and more comprehensive definition of "Water Table" that uses historical and current data for wells on the APO property and wells on adjacent properties. The intent is to take a conservative approach regarding the establishment of the APO quarry floor(s) such that there is sufficient separation to the shallowest underlying water table which may change over time due to rainfall. The proposed depths of APO quarry floor(s) must be validated by an approved independent 3rd party before development operations at the APO are approved.
4. Prior to granting approval to commence operations of an APO, the direction of flow of the underlying shallowest aquifer shall be established by an approved independent 3rd party.
5. Monitoring water wells on properties adjacent to all sides of the APO shall be identified prior APO permit approval. Access to the wells shall be agreed with the property owners and base-line water depths and water chemistry results which includes nitrates shall be established before the APO permit is approved. Well monitoring shall be conducted on a monthly basis during the life of the APO by an approved independent 3rd party. The monitoring data is to be posted to the TCEQ website and made available to the well owners, APO owner and the public
6. An APO is not allowed to re-route dry-creek beds on its property to facilitate aggregate production.
7. A survey of dry-creek beds on a proposed APO property is to be executed by an independent professional geologist to identify surface cracks and faults that may enable stormwater to flow into "to-be quarried" areas and potentially contaminate the underlying aquifer. If so identified, no quarrying shall be allowed adjacent to these areas.