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Comments on Proposed requirements.

- Items 1 and 2 and 3 below - One quarter mile is completely unacceptable. With existing subsurface conditions in Alaska people with wells and aquifers much farther away than a quarter mile could easily be affected. Attached study lists a kilometer. <http://www.propublica.org/article/scientific-study-links-flammable-drinking-water-to-fracking>. Due to unknown subsurface conditions, this should be at least a 2 mile radius.
- Recommend outlaw fracking completely within 5 miles of existing drinking water wells http://www.workers.org/2011/us/fracking_1124/
- For item 5 below baseline sampling should also include any planned or used fracking chemicals.
- For item 5 below follow-up sampling should continue on a yearly basis until the well is closed and decommissioned.
- If any contamination is found in wells, well owner should have to shut down and decommission well completely, and reimburse property owner for full value of their property prior to contamination.

Tony SlatonBarker
828 Hiland Road
Eagle River Alaska, 99577

20 AAC 25.280 shall include;

- (1) an affidavit showing that all owners, landowners, surface owners, and operators within one-quarter mile of the wellbore trajectory have been provided a complete copy of the application for hydraulic fracturing;
- (2) a plat showing the well location and identifying any water wells located within a onequarter mile radius of the well's surface location and further identifying any well penetrations (all well types) within one-quarter mile of the proposed wellbore trajectory and fracturing interval and the sources of the information used in identifying such wells;
- (3) identification of freshwater aquifers within the one-quarter mile radius;
- (5) water sampling of water wells is required. Water sampling consists of collection of baseline water data pre-fracture and follow-up water sampling collected at the same location no sooner than 90 days and no later than 120 days after the conclusion of any hydraulic fracturing operations. The sample parameters shall include pH; Alkalinity; Specific conductance; Major cations/anions (bromide, chloride, fluoride, potassium, sulfate, sodium); Total dissolved solids; BTEXIGROIDRO (Benzene, Toluene, Ethylene, Xylene/Gasoline Range Organics|Diesel Range Organics); TPH (Total Petroleum Hydrocarbons) or Oil and Grease (HEM); PAH's (Polynuclear Aromatic Hydrocarbons including benzo(a)pyrene); Dissolved Methane, Dissolved Ethane, Dissolved Propane; and Metals (arsenic, barium, boron, cadmium, calcium, chromium, iron, magnesium, manganese, selenium). Current applicable EPA-approved sample custody and collection protocols and analytical methods for drinking water must be used and analyses must be performed by laboratories that maintain nationally accredited programs. Copies of all test results, analytical results and sample locations shall be provided to the commission and to the Alaska Department of Environmental Conservation in an electronic data deliverable format within 90 days of collecting the samples;

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