

Noise and Light Rules in Other Front Range Jurisdictions

Jurisdiction	Adopted Rule and Date	Proposed Rule and Date	Rule Specifics
ADAMS	Adopted Rules September 2019		<p>Noise: Baseline noise study over 3 days</p> <p>County may require continuous noise monitoring</p> <p>Post 24/7 Contact Info</p> <p>May require: insulated housing, Noise Management Plan</p> <p>Obtain electric power to use electric equipment</p> <p>Restrictions on unloading pipe & tubular goods, 6PM – 8AM</p> <p>Tier 4 or better diesel engines (far less noise, fewer emissions)</p> <p>Light: Downward lighting</p> <p>Fully shielded bulbs</p>
AURORA	Operating Agreements with Conoco + Extraction June & July 2019		<p>Noise: City may require noise mitigation depending on specifics of the location</p> <p>Operator shall address low-frequency noise/vibration through berming, sound walls and other BMPs</p> <p>Light: Lighting must be downcast and not shine beyond the boundaries of the well site.</p> <p>Lighting plan required for approval</p>

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BOULDER	Adopted Rules March 2017		<p><u>Noise:</u> Baseline Noise Study</p> <p>Noise Mitigation</p> <p>Additional Noise Measures may be required</p> <p>Notice of Commencement</p> <p><u>Light:</u> Downcast lighting</p> <p>Will not shine beyond site</p> <p>May address light through COAs</p>
BROOMFIELD	Operating Agreement with Extraction October 2017		<p><u>Noise:</u></p> <p>Noise Impact Mitigation Plan required</p> <p>Noise mitigation shall be constructed along the boundary of the operation if adjacent to residential development</p> <p>Operator shall take all reasonable efforts to use electric equipment</p> <p>Baseline Noising Study</p> <p>Facility Noise Modelling</p> <p>Conduct drilling with electric equipment</p> <p>No onsite power generation</p> <p>Require sound controlled equipment such as Liberty's "Quiet Fleet" for fracking; Reduce the noise of pumps & motors.</p>

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	<p data-bbox="407 857 785 889">Ordinance Passed January 2020</p> <p data-bbox="407 1143 743 1175">Ordinance Passed May 2018</p>		<p data-bbox="1157 253 1877 318">Maximum allowable sound level of 60 db(A) between 7PM – 7AM.</p> <p data-bbox="1157 362 1877 427">Require operators to address C scale noise/vibration through the use of containment berms & other BMPs.</p> <p data-bbox="1157 470 1493 503">Sound walls at least 32’ high</p> <p data-bbox="1157 540 1877 605">Noise measurements pre-construction, drilling, fracking and flowback.</p> <p data-bbox="1157 649 1514 714">Light: Light Mitigation Plan required</p> <p data-bbox="1157 751 1793 816">Lighting directed downward except during drilling and completion.</p> <p data-bbox="1157 860 1541 925">Noise and Light: Noise limit of 40 db 10 PM-7 AM</p> <p data-bbox="1157 969 1877 1034">Require Operator to construct a 32-foot wall to screen facility from view and provide noise and light mitigation</p> <p data-bbox="1157 1071 1688 1104">Lighting Plan required for permanent lighting</p> <p data-bbox="1157 1148 1898 1245">Noise and Light: Minimize community impacts including those related to traffic, noise, light pollution</p> <p data-bbox="1157 1289 1877 1419">The Facility shall, to the maximum extent possible, and to prevent adverse impacts to public health, safety and welfare, and the environment, minimize noise and noise impacts to surrounding land uses</p> <p data-bbox="1157 1463 1877 1495">Conduct noise modeling for each Facility for pre-construction</p>

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			and active drilling, hydraulic fracturing, flowback and operations.
FT. COLLINS	Operating Agreement with Prospect Energy October 2019	Currently working to update their Land Development Code	Noise: Noise Report and Mitigation Plan Required for all applications with a 3-day baseline noise analysis, modelled out to 350' for mitigation measures. 350' measured from the boundary of the noise source.
LARIMER		Proposed Rules for March 23, 2020 hearing	Noise: Noise Report and Noise Mitigation Plan Requires electric powered engines for drilling and production, unless electricity is not available. Limit of 55 db(A) day and 50 db(A) night. Increase of 10 db(A) allowed during the day for 15 minute intervals. If site is remote, semi-industrial noise levels are allowed. Decibel levels based on zoning designation of adjacent land Quiet mufflers for non-electric equipment; Acoustically insulated motors/generators/engines. If the site is in a remote location, the light industrial noise standard may be used Recompletions shall be subject to the light industrial noise levels
THORNTON	Adopted August 2017		Noise: Noise Management/Noise Mitigation Conform to COGCC rules, except when located in the city. 60 db(A) limit in the city. Measurement taken when no traffic.

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			<p>Electric motors and rigs where electricity available.</p> <p>Noise and Light: Requirement for noise and lighting study if a residential property is within 500'</p>
WELD	Adopted June 2019		<p>Noise: Noise limits based on adjacent land uses 7AM-7PM and 7PM-7AM</p> <p>Light: Downward & inward & shielded to avoid glare on public roads and building units within 1320'</p>