

Agency	Comment	Response
Tri-County Health	Domestic Wastewater Management: TCHD maintains a list of licensed wastewater system cleaners, which can be used to verify the subcontractor providing wastewater service is licensed to perform the work.	Comment Acknowledged
Tri-County Health	Baseline Water Quality Testing: TCHD recommends that any owner of a water well located within one-half mile of the proposed oil and gas operation have the opportunity to obtain a baseline test prior to the initiation of development activities.	Great Western invited residents within a half mile of the facility to a neighborhood meeting. At this meeting, Great Western solicited attendees with water wells to participate in the COGCC-required baseline water sampling program. If any resident would like to discuss having their water well tested, please call Great Western Community Relations at 720-317-7989.
Tri-County Health	Water Supply for Use by Workers: TCHD will need to review information regarding the source of water for workers as well as any proposed potable water systems.	Bottled water is utilized
Tri-County Health	Non-potable water storage should be marked with a sign indicating the water is non-potable.	Comment Acknowledged
Tri-County Health	All storage tanks must have a secondary containment area, a routine monitoring system, and best management practices implemented in order to prevent the release of contaminants.	Secondary containment will be provided as required.
Tri-County Health	Contact TCHD immediately in the event of a leak or spill from domestic wastewater system.	NA - domestic wastewater system not present
Tri-County Health	TCHD recommends including a regulatory analysis determining the applicability of state and federal air quality permitting requirements.	Great Western conducts our operations in accordance with applicable state and federal air quality regulations
Tri-County Health	TCHD encourages the applicant to follow best management practices for erosion control specifically to minimize excessive dust from land disturbing activities.	Erosion control and excessive dust BMPs are included on the COGCC Form 2A.
Tri-County Health	TCHD recommends the applicant incorporate traffic control best management practices including, but not limited to limiting traffic during specific hours if the designated truck route overlaps with a local school bus route(s).	Traffic control BMPs will be utilized to the extent practicable.
CPW	Reclamation and landscaping should include diverse native vegetation representative of a native habitat.	The production phase pad area will be seeded using the Adams County seed mix, as stated in the seed mix schedule on sheet L102 of the landscaping plans. Additionally, the trees and shrubs specified on the landscaping plan are approved species to meet the Adams County landscaping requirements for this development.
CPW	If prairie dog colony is discovered the potential may exist for Burrowing owls to be present. Burrowing owls are protected by both state and federal laws. If earth-moving activities begin between March 15th and October 31st, a burrowing owl survey should be completed.	Great Western will follow appropriate regulations.
CDPHE	This project may require an Air Pollutant Emissions Notice (APEN). A link for additional information about APEN's was provided by CDPHE in the attached letter.	Comment Acknowledged
CDPHE	Odors: Implement BMP's to reduce Odors during each phase. Examples include but are not limited too; i. Chillers and chemicals to mask or neutralize hydrocarbon odors from drilling mud; ii. Squeegee to remove drilling fluids from drilling pipe as the pipe is removed from the wellbore; iii. Covered containers to store drilling mud; iv. Minimize use of diesel fuel	Odor BMP listed on COGCC Form 2A will be followed.
CDPHE	Management of exploration and production waste: The division recommends testing for and properly disposing of technologically enhanced naturally occurring radioactive materials (TENORM).	Great Western will manage exploration and production waste in accordance with applicable regulations.
CDPHE	The proposed well pad is located in the Denver Metro North Front Range ozone non-attainment area, so electrical equipment and devices should be utilized to the maximum extent practicable in order to reduce emissions. Flaring of natural gas should be limited to emergencies only to the maximum extent practical and should be controlled with an enclosed combustor with 98% efficiency.	Great Western will minimize flaring to the extent practicable.
CDPHE	Plugging and abandonment: Implement measures to control unnecessary and excessive venting during plugging and abandonment operations.	Great Western will implement measures to control unnecessary and excessive venting during plugging and abandonment operations.
Adams County	Please provide an overall site plan showing the location of the lease area on the larger parcel. Please include the setbacks of the well pad from all property lines and the nearest right-of-way, residential structures, and the Tower well pad. Staff is concerned about the proximity of future residential uses adjacent to the site, as well as the pad visibility from public right-of-way. The landscape must show adequate visual mitigation.	Enclosed is a plan depicting the entire parcel, including the location of the oil and gas well pad, included with this letter. The existing subdivision parcel lines are visible for reference. Distances to the nearest property lines, right-of-ways, and residential structures are also included on the plan. The nearest residential use is located approximately 1,078 feet from the Boston Farms Subdivision to the southeast. However, the Boston Farms Subdivision is located over a hill to the southeast and is not within direct visual sight lines of the site, due to the hill. The nearest residential use within direct sight lines is the Todd Creek Farms and Wheatland Estates Subdivisions to the North and is located across the E-470 Toll Road from the proposed site. The nearest residence is located over 1,500 feet from the nearest well. The landscaping will include the construction of a 4 foot high split rail fence along the north and east side of the site. In previous conversations with the County, a decorative 4-foot high split rail fence would be appropriate where there is no directly adjacent residential use (approx. 500 feet). Per Adams county requirements, the fence will be located on the interior of the landscaping. The proposed landscaping along the north and east side of the site will follow the Adams County
Adams County	The plan must include the proposed irrigation method (water truck, drip system, etc).	The landscape plan originally stated a landscape irrigation system would be installed as stated in note on sheet L102. This note has been expanded to include design-build notes for a "landscape drip irrigation system" to be installed by the landscape subcontractor.
Adams County	The landscape notes indicate all trees will be mulched with red cedar mulch, however, this is not reflected in the table for % non-living material. Please revise table.	The table has been updated to show 98% living and 2% non-living, assuming a 6 foot diameter mulch circle around the trees.

		A topsoil stockpile berm 10 foot high with a 3:1 slope and a 10 foot crest is shown to be constructed at the north end of the pad (site). The topsoil berm will remain until final reclamation of the oil & gas site. The drilling phase will also include a small diversion berm as a stormwater management BMP. This berm will be 1 foot high with 3:1 side slope and a 1 foot crest. The landscape plan has been updated to reflect the berm details.
Adams County	Please provide additional detail on proposed berm (height, slope ratio, etc).	
City of Thornton	The site is located in the City of Thornton's future growth area with future zoning identified as Residential Estate. As a result, additional mitigation (landscaping/screening) for non-compatible land uses should be implemented.	The landscaping plan has been provided with the AUSR application and follows Adams County landscaping requirements.
City of Thornton	Roadway improvements, setbacks from future Right - of - Ways, a turning lane from Quebec Street, along with other roadway improvements and considerations have been requested by the City of Thornton.	Great Western is working with Thornton on road improvements on Quebec Street, including not encroaching on what would be the future right of way.
City of Thornton	The city has requested the operator to engage with Thornton Fire Department regarding emergency response planning, including initial and ongoing response training with the operator on site.	North Metro Fire is the designated fire department for this site. Great Western has met with Chief Bybee at North Metro and the Chief requested that he coordinate with Thornton Fire Department. He is planning to set up a meeting between all of us and will pass on any ERP we provide.
City of Thornton	Notify the City of Thornton Emergency Communications Center prior to any flaring activities.	Comment Acknowledged