1. Pathway and Scope

✓	Checklist item	Notes / status
☐	Confirm pathway: carbon storage hub, small-scale and remote sequestration, CO2 EOR, acid gas disposal with captured CO2, or other.	
☐	Confirm whether the submission is for evaluation tenure, a sequestration agreement/lease, or a small scale and remote application	
☐	Confirm ETS access, authorized party, and applicant contact information.	

2. Business Case and CO2 Volumes

✓	Checklist item	Notes / status
☐	Describe the need for the carbon sequestration operation.	
☐	Identify CO2 source(s), estimated tonnes per year, and estimated lifetime tonnes.	
☐	Provide project timeline, including regulatory approval, project start date, and injection timeline.	
☐	For small-scale and remote: explain why a current or forthcoming carbon sequestration hub is not viable.	
☐	Include economic analysis, sequestration options, regional capacity review, or other business-case support as applicable.	

3. Requested Lands and Sequestration Formation

✓	Checklist item	Notes / status
☐	Provide complete legal land descriptions for requested lands.	
☐	Provide complete formation description(s) and identify the subsurface reservoir/pore space.	
☐	Confirm requested lands are congruent with ultimate pore volume required for the project.	
☐	Confirm intended formation has no recoverable resources, or address recoverable resources in the unit application.	
☐	Confirm active disposal wells are absent or addressed within the unit application.	

4. Geological and Mapping Support

✓	Checklist item	Notes / status
☐	Cross-sections.	
☐	Logs with marked formation tops.	
☐	Core analysis and brine analysis, where available.	
☐	Directional surveys.	
☐	Seismic interpretation with suitable well tie, where available.	
☐	Net reservoir isopach map.	
☐	CO2 available pore volume isopach, including parameters used in pore volume calculations.	
☐	Storage capacity / pore volume calculations.	
☐	Reservoir, caprock, and under-burden description.	
☐	Annotated type well log, where applicable.	

5. Plume Migration and Area of Influence

✓	Checklist item	Notes / status
☐	Projected CO2 fluid plume area.	
☐	Dynamic reservoir simulation model of pressure influence of the plume AOI, where required/applicable.	
☐	Compare requested lands against projected plume, pressure AOI, and ultimate pore volume needs.	
☐	Identify resource interest or activity overlap within current/projected AOI.	
☐	Identify existing disposal wells within current/projected AOI on the pore volume isopach.	
☐	Identify legacy wells and other features of interest to containment.	
☐	Outline MMV concept for plume containment and conformance.	
☐	Assess potential impacts to mineral recovery, heat recovery, pore space users, and other subsurface activities.	

6. Engineering and Reservoir Support

✓	Checklist item	Notes / status
☐	Injection forecasts and phase volumes.	
☐	Injectivity tests and pressure transient analyses.	
☐	Fluid compatibility testing report.	
☐	Injection pressure, injectivity, capacity, and containment screening.	
☐	Induced seismicity risk screening.	
☐	Preliminary well design / injection concept.	
☐	Design basis memorandum or operating concept for hub proposals, where applicable.	

7. Overlapping Rights, Unit and Stakeholder Review

✓	Checklist item	Notes / status
☐	Identify overlapping rights, agreements, authorizations, and mineral owners.	
☐	Prepare Pore Space Unit Agreement and cover letter, where required.	
☐	Identify methodology for valuing overlapping interests and Crown royalty interests, where required.	
☐	Prepare stakeholder engagement plan for landowners, municipalities, Indigenous communities, emitters, and other affected interests.	
☐	Identify potential subsurface interactions/conflicts and mitigation options, including third-party compensation considerations.	

Source references

- Alberta CCUS Carbon Sequestration Tenure

Important: This checklist is for Alberta Energy and Minerals carbon sequestration tenure submissions. Tenure does not authorize injection. The AER Directive 065 process and all required AER approvals are still required before CO2 injection or sequestration operations proceed.

Plume migration focus: The CO2 fluid plume and pressure plume are central to CCUS tenure review because they drive the requested lands, pore volume, overlap with other subsurface rights, legacy well risk, MMV planning, resource conflicts, induced

seismicity review, and eventual D065/AER containment assessment.

- Call for Tenure Proposals for Carbon Sequestration Hubs
- Small-Scale and Remote Carbon Sequestration Tenure Application Guide