

**APPENDIX 11.1: INJECTOR CTVW-I-DO1**  
**SUMMARY OF REQUIREMENTS**  
**CLASS VI OPERATING AND REPORTING CONDITIONS**  
**CTV VI**

**Document Version History**

Version	Revision Date	File Name	Description of Change
1	7/31/2024	Apdx 11.1 Inj Well Reqs CTVW-I-DO1_v1	Original Submission

**1. Facility Information**

Facility name: CTV VI

Facility contact: Faisal Latif, Storage Development Manager  
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Well location: 36.80749903, -120.5133076

**2. Operating Conditions**

The maximum injection pressure, which serves to prevent confining formation fracturing, was determined using a conservative 0.80 pounds per square inch/foot (psi/ft) fracture pressure gradient multiplied by 0.9, per 40 CFR 146.88(a). Carbon TerraVault Holdings, LLC (CTV) will conduct a step-rate test in the Injection Zone as a part of pre-operational testing to determine the fracture gradient and will update the maximum injection pressure, if necessary. **Table 1** summarizes well operating conditions for Injector CTVW-I-DO1.

**Table 1. CTVW-I-DO1 Injection Well Operating Conditions**

Parameter/Condition	Limitation or Permitted Value
Maximum Injection Pressure – Surface	1,714 psig
Maximum Injection Pressure – Bottom-hole	3,396 psig
Average Annulus Pressure – Bottom-hole	2,434 psig
Annulus Pressure/Tubing Differential	109 psig
Maximum CO2 Injection Rate	52 mmscfd

psig = Pounds per square inch gauge  
mmscfd = Million standard cubic feet per day

**3. Routine Shutdown Procedure**

For injection shutdowns occurring under routine conditions (e.g., for well workovers), the permittee will reduce CO<sub>2</sub> injection at a rate of 4.33 million standard cubic feet per day (mmscfd) over a six-day period to ensure protection of health, safety, and the environment. (Procedures

that address immediately shutting-in the well are in **Attachment F: Emergency and Remedial Response Plan.**)

**Table 2. Class VI Injection Well Reporting Requirements**

Activity	Reporting Requirements
CO <sub>2</sub> stream characterization	Semiannually
Injection pressure, injection rate, injection volume, pressure on the annulus, and annulus fluid level	Semiannually
Corrosion monitoring	Semiannually
External MITs	Within 30 days of completion of test
Pressure fall-off testing	In the next semiannual report

Note: All testing and monitoring frequencies and methodologies are included in **Attachment C: Testing and Monitoring Plan.**

**Table 3. Class VI Project Reporting Requirements**

Activity	Reporting Requirements
Groundwater quality monitoring	Semiannually
Plume and pressure-front tracking	In the next semiannual report
Monitoring well MITs	Within 30 days of completion of test
Financial responsibility updates pursuant to H.2 and H.3(a) of this permit	Within 60 days of update

Note: All testing and monitoring frequencies and methodologies are included in **Attachment C: Testing and Monitoring Plan.**