

**SUMMARY OF REQUIREMENTS  
CLASS VI OPERATING AND REPORTING CONDITIONS**

**CTV IV**

**1.0 Document Version History**

Version	Revision Date	File Name	Description of Change
1	4/11/2023	Apdx 9.8 Inj Well Reqs [REDACTED]	Original Submission

**2.0 Facility Information**

Facility name: CTV IV

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Location: [REDACTED]

**3.0 Operating Conditions**

The maximum injection pressure, which serves to prevent confining-formation fracturing, was determined: using a conservative 0.76 psi/ft fracture pressure gradient multiplied by 0.9, per 40 CFR 146.88(a). 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 presents a summary of well operating conditions for Injector [REDACTED]

**Table 1.** [REDACTED] Injection Well Operating Conditions

PARAMETER/CONDITION	LIMITATION or PERMITTED VALUE
Maximum Injection Pressure - Surface	1,426 psi
Maximum Injection Pressure - Bottomhole	3,019 psi
Annulus Pressure	2,035 psi
Annulus Pressure/Tubing Differential	184 psi
Maximum CO <sub>2</sub> Injection Rate	[REDACTED]

**4.0 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 [REDACTED] over a 6 day period to ensure protection of health, safety, and the environment. (Procedures that address immediately shutting in the well are in the Emergency and Remedial Response Plan of this permit.)

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

<b>ACTIVITY</b>	<b>REPORTING REQUIREMENTS</b>
CO2 stream characterization	Semi-annually
Injection pressure, injection rate, injection volume, pressure on the annulus, and annulus fluid level	Semi-annually
Corrosion monitoring	Semi-annually
External MITs	Within 30 days of completion of test
Pressure fall-off testing	In the next semi-annual report

Note: All testing and monitoring frequencies and methodologies are included in the Testing and Monitoring Plan of this permit.

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

<b>ACTIVITY</b>	<b>REPORTING REQUIREMENTS</b>
Groundwater quality monitoring	Semi-annually
Plume and pressure front tracking	In the next semi-annual 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 the Testing and Monitoring Plan of this permit.