

**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 9.1 Inj Well Reqs [REDACTED]	Original Submission

2.0 Facility Information

Facility name: CTV IV

Facility contact: William Chessum / Technical Director
(562) 999-8380 / William.chessum@crc.com

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	1,135 psi
Maximum Injection Pressure - Bottomhole	2,335 psi
Annulus Pressure	1,678 psi
Annulus Pressure/Tubing Differential	147 psi
Maximum CO ₂ Injection Rate	[REDACTED]

4.0 Routine Shutdown Procedure

For injection shutdowns occurring under routine conditions (e.g., for well workovers), the permittee will reduce CO₂ 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

ACTIVITY	REPORTING REQUIREMENTS
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

ACTIVITY	REPORTING REQUIREMENTS
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.