

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

CTV V

1.0 Document Version History

| Version | Revision Date | File Name | Description of Change |
|---------|---------------|------------------------------------|-----------------------|
| 1 | 5/31/2023 | Apdx 11.3 Inj Well Reqs KI-I-M3_v1 | Original Submission |

2.0 Facility Information

Facility name: CTV V

Facility contact: William Chessum / Technical Director
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Location: CTV V, San Joaquin County, CA
38.08 / -121.42

3.0 Operating Conditions

The maximum injection pressure, which serves to prevent confining-formation fracturing, was determined using a conservative 0.76 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** presents a summary of well operating conditions for Injector KI-I-M3.

Table 1: KI-I-M3 Injection Well Operating Conditions

| Parameter/Condition | Limitation or Permitted Value |
|--|-------------------------------|
| Maximum Injection Pressure – Surface | 1,830 psi |
| Maximum Injection Pressure – Bottom-hole | 3,968 psi |
| Annulus Pressure | 2,975 psi |
| Annulus Pressure/Tubing Differential | 153 psi |
| Maximum CO ₂ Injection Rate | 20.8 mmscfd |

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 2.17 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 the Emergency and Remedial Response Plan of this permit.)

Table 2: Class VI Injection Well Reporting Requirements

| Activity | Reporting Requirements |
|--|--------------------------------------|
| CO2 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 the Testing and Monitoring Plan of this permit.

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 the Testing and Monitoring Plan of this permit.