

APPENDIX E

TESTING AND MONITORING PLAN 40 CFR 146.90; 146.82(a)(15)

Jasper County Storage Facility

1. FACILITY INFORMATION

Facility Name: Jasper County Storage Facility

Facility Contact: 501 Westlake Park Blvd., Houston, Texas 77079

Well Location: Jasper County, Texas

[REDACTED]

2. INTRODUCTION

This Testing and Monitoring Plan (Plan) describes how BP Carbon Solutions LLC (BP) will monitor the Jasper County Storage Facility (Site) pursuant to 40 Code of Federal Regulations (CFR) 146.90. In addition to providing a basis to demonstrate that the wells are operating as planned, this Plan is designed to demonstrate that the carbon dioxide (CO₂) plume and pressure front remain in the confining zone, are behaving as predicted, and that there is no endangerment to underground sources of drinking water (USDW). Over the lifetime of the injection wells, the monitoring data will also be used to validate and adjust the geological and dynamic models used to predict the distribution of the CO₂ within the storage zone, to support Area of Review (AoR) reevaluations, and to inform whether modifications to this Plan are needed. Although unlikely, results of the testing and monitoring activities described below could also lead to action according to the Emergency and Remedial Response Plan (ERRP) (**Appendix H**).

3. OVERALL STRATEGY AND APPROACH FOR TESTING AND MONITORING

In accordance with 40 CFR 146.90, BP has prepared a testing and monitoring plan that will verify that the geologic sequestration project is operating as permitted and is not endangering USDWs. Components of the Plan are set forth in more detail below.

3.1 CO₂ Stream Monitoring [40 CFR 146.90(a)]

The injected CO₂ stream will be analyzed with sufficient frequency to yield data representative of its chemical and physical characteristics and to ensure that the CO₂ stream meets the specifications outlined in this application. [REDACTED]

Sampling will occur quarterly, at a minimum, for the initial phases of project operation. Sampling frequency is described in more detail in **Section 4.1**.

3.2 Operational Monitoring [40 CFR 146.88(e)(1), 146.89(b), and 146.90(b)]

Continuous recording devices¹ will be used to monitor: (i) injection pressure, rate, and volume; (ii) the pressure on the annulus between the tubing and the long string casing; (iii) the annulus fluid volume added; and (iv) the temperature of the CO₂ stream. Instruments will be calibrated annually to recognized industry standards. Critical system parameters will have continuous electronic monitoring with signals transmitted back to a master control system. A contingency plan involving in-person field monitoring of manual gauges will be activated if system communication is lost for greater than 30 minutes.

Corrosion in the pipeline, long string casing, injection tubing and wellhead will be monitored using the corrosion coupon method on a quarterly basis for the duration of the injection period.

3.3 Groundwater Geochemical Monitoring Above the Confining Zone [40 CFR 146.90(d)]

The overall strategy for testing and monitoring groundwater above the confining zone is to set up a network of monitoring wells in strategic locations that will detect any potential fluid migration early so that it can be addressed. [REDACTED]

[REDACTED] Monitoring wells will be placed hydraulically downgradient of potential injection well leak points and upgradient of existing water wells to most efficiently warn of potential leakage.

3.4 Carbon Dioxide Plume and Pressure-Front Tracking [40 CFR 146.90(g)]

BP will employ direct and indirect methods to track the extent of the CO₂ plume and the presence or absence of elevated pressure during the operation period to meet the requirements of 40 CFR 146.90(g). BP intends to supplement this plan with additional data from the appraisal well, dynamic simulation model, geologic site characteristics, and other relevant information sources.

1 Digital recording will occur on a frequency of \leq 5 minutes, based on sampling frequencies of \leq 10 seconds.

3.5 Responsibility Matrix for Testing and Monitoring

The Site, managed by BP, will be supported by multiple contractors sharing project responsibilities, as categorized in this Plan, and shown on **Table 1**. This table will be updated with the names of relevant third parties once contractors are selected by BP.

Table 1. Responsibility Matrix for Sampling / Testing / Monitoring

Sampling / Testing / Monitoring Activity	Responsible Party
CO ₂ Stream Analysis	BP and Third Party (To be determined)
Operational Parameters (i.e., injection pressure, rate, volume, temperature)	BP
Shallow Groundwater Sampling (confining zone)	Third Party (To be determined)
Intermediate Groundwater Sampling	Third Party (To be determined)
Mechanical Integrity Testing (MIT)	BP
Well Logging	Third Party (To be determined)
Geophysical Monitoring	Third Party (To be determined)

3.6 Quality Assurance Procedures [40 CFR 146.90(k)]

A Quality Assurance and Surveillance Plan (QASP) for all testing and monitoring activities, required pursuant to 146.90(k), is provided as **Attachment 1** to this Plan.

3.7 Reporting Procedures [40 CFR 146.91]

BP will report the results of testing and monitoring activities to the Underground Injection Control (UIC) Program Director in compliance with 40 CFR 146.91.

3.8 Data Retention [40 CFR 146.91(f)(2)(3)]

BP will retain the results of all testing and monitoring activities in accordance with the requirements of 40 CFR 146.91(f)(2) and 40 CFR 146.91(f)(3). Data collected throughout the life of the Site will be retained for at least ten years after Site closure.

4. CO₂ STREAM ANALYSIS [40 CFR 146.90(a)]

BP will analyze the CO₂ stream during the injection period to yield data representative of its chemical and physical characteristics and to meet the requirements of 40 CFR 146.90(a).

[REDACTED] Sampling frequency is subject to further assessment and approval from the UIC Program Director but will occur quarterly at a minimum for the initial phases of Site operation.

BP will analyze the CO₂ for specific constituents utilizing detailed analytical methods as described on **Table 2** in this Plan.

4.1 Sampling Location and Frequency [40 CFR 146.82(a)(7)(iv)]

[REDACTED] Samples collected for the Site will be analyzed by an accredited laboratory. Results of analysis of the CO₂ stream will be monitored to assess risks to flow assurance and mechanical integrity of both the CO₂ pipeline and the injection wells, as well as impact on fluid behavior in the subsurface. [REDACTED]

[REDACTED] Sampling will occur quarterly, at a minimum. Final determination of sampling frequency is subject to further assessment and approval from the UIC Program Director.

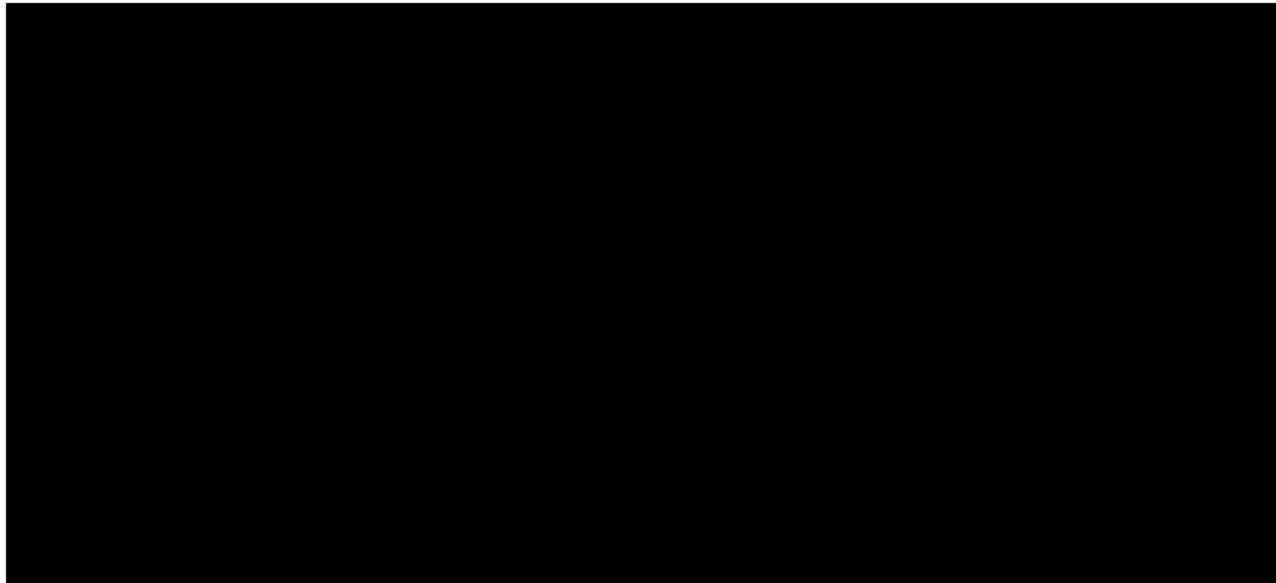
Prior to the injection phase of the Site, BP will collect representative samples of the CO₂ stream upstream of the injection points. This data will be provided to the governing agency to meet the requirements of 40 CFR 146.82(a)(7)(iv).

The CO₂ streams are discussed further in the **Application Narrative**.

4.2 Analytical Parameters

BP will analyze the CO₂ stream for at least the constituents identified on **Table 2** using the methods listed. The specific analytical methods employed, and frequency of sampling, may vary based on criticality to operations and the analyzers implemented for continuous monitoring. The UIC Program Director will be notified 30 days in advance of any changes to the **Table 2** analytical parameters.

[REDACTED]



4.3 Sampling Methods

CO₂ stream sampling will be conducted [REDACTED]

[REDACTED] Sampling will be collected and analyzed based on the requirements for each of the provided methods listed on **Table 2**.

[REDACTED] [REDACTED] Samples will have descriptive labels with identification numbers and sampling dates, as described in the QASP (**Attachment 1**).

4.4 Laboratory to Be Used/Chain of Custody and Analysis Procedures

An accredited third-party laboratory will be used to analyze samples and will adhere to standardized procedures for gas chromatography, mass spectrometry, detector tubes, and photo ionization. Once a third-party laboratory is chosen, this section will be updated with the laboratory's name. Detection limits are included on **Table A.7** of the QASP (**Attachment 1**), while chain of custody procedures are described in **Section B.3.e**.

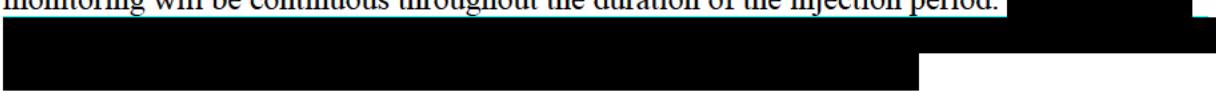
5. CONTINUOUS RECORDING OF OPERATIONAL PARAMETERS [40 CFR 146.88(e)(1), 146.89(b), and 146.90(b)]

In accordance with 40 CFR 146.88(e)(1), 40 CFR 146.89(b), and 40 CFR 146.90(b), BP will install and use continuous recording devices to monitor the operational parameters that are summarized on **Table 3**. Continuous monitoring of these parameters will begin with a baseline annulus pressure test on each injection and monitoring well to establish a baseline for mechanical integrity prior to CO₂ injection. Continuous recording devices monitor injection pressure, rate, and volume, along with the pressure and temperature on the annulus between the long-string

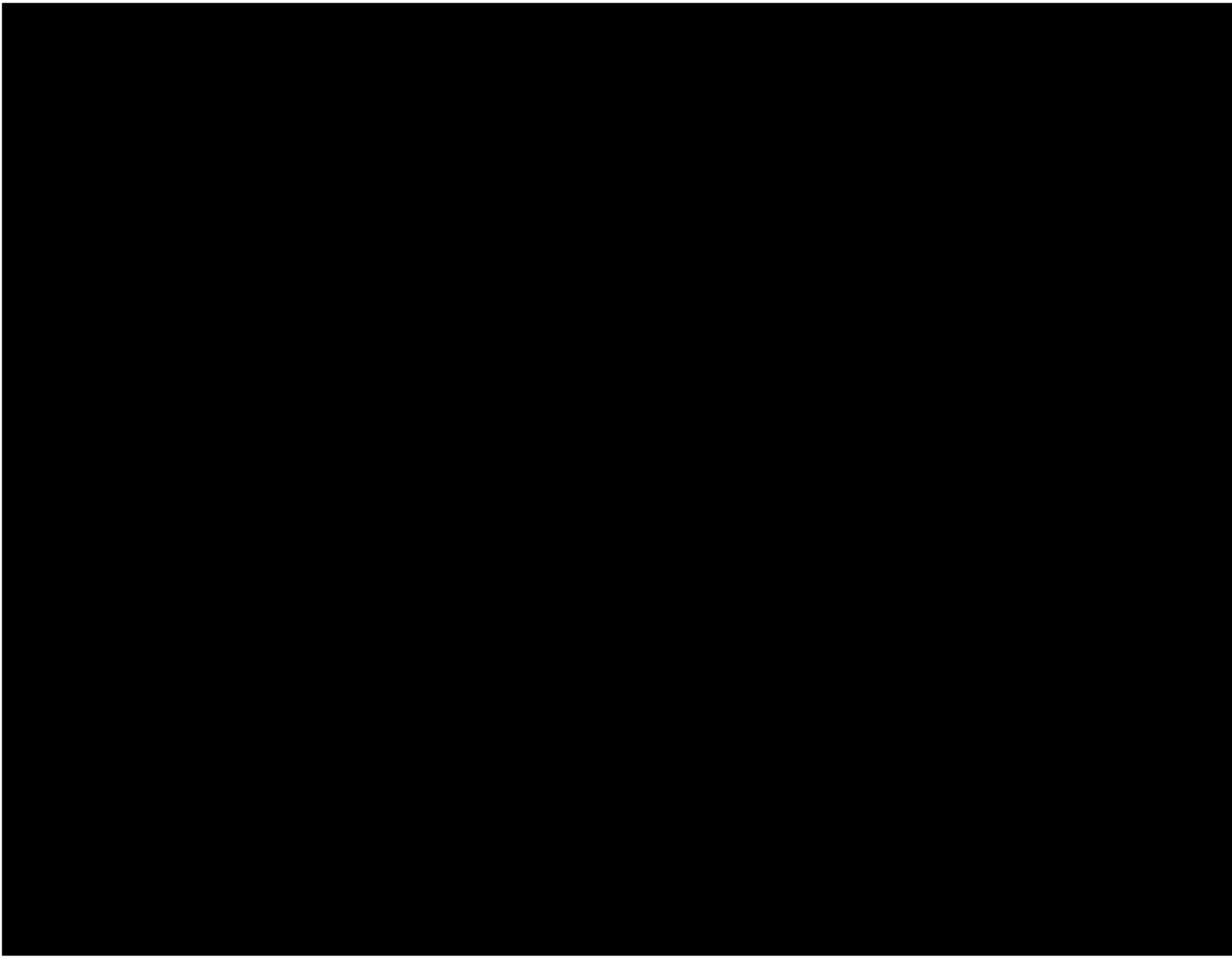
casing, tubing, and annulus fluid volume added. Continuous monitoring is uninterrupted monitoring for specific parameters, where values are extracted at applicable intervals. These standard operational procedures are generally described below but may change over the injection period at the Site based on specific site conditions (e.g., in response to monitoring device failure or the availability of new technologies, data-gathering procedures, and/or methods). Data gathered through the monitoring program will be stored in BP-maintained databases for immediate review and timely reporting to the UIC Program Director.

5.1 Monitoring Location and Frequency

After the initial annulus pressure test, BP will perform the activities identified on **Table 3** to monitor operational parameters and verify internal mechanical integrity of each injection well. All monitoring will take place at the locations and frequencies shown on the table. All monitoring will be continuous throughout the duration of the injection period.



The location and monitoring frequency meet the requirements of 40 CFR 146.88(e)(1), 40 CFR 146.89(b), and 40 CFR 146.90(b).



5.2 Monitoring Details

Table 3 above describes where monitoring will take place, what equipment or instrumentation will be used, and how often data will be sampled.

Calibration of the above-ground pressure and temperature instruments will be conducted annually using recognized industry standards in accordance with **Section B.7** of the QASP (**Attachment 1**). [REDACTED]

[REDACTED] In general, the flow meters are calibrated for the expected range of flow rates using recognized industry standards. [REDACTED]

If any monitoring devices experience failure, alternative data gathering procedures and methods may be used. Data acquired by the testing and monitoring procedures will be stored in a variety of locations, including third-party servers, BP servers, and cloud-based storage and will be provided timely to the UIC Program Director as required or requested.

Mechanical integrity will be monitored as part of the pressure and temperature monitoring procedure described in further detail in **Section 8**. A significant change from the baseline or

initial conditions in parameters measured by direct or indirect monitoring could indicate a loss of mechanical integrity. If mechanical integrity is lost, BP will follow the procedures outlined in the EERP (**Appendix H**).

5.2.1 Injection Rate and Pressure Monitoring

[REDACTED] The anticipated maximum wellhead pressure for each well will be recalculated based on actual operating conditions. The maximum wellhead pressure limit is keyed off the design operating limits of each well and surface limitations. The pressure is not tied to a specific injection rate as this rate may change over the injection period of the Site. The maximum wellhead pressure will not exceed 90% of the injection zone's fracture pressure.

[REDACTED]

5.2.2 Calculation of Injection Volumes

[REDACTED] Flow rate is measured on a mass basis (kilogram per hour). The downhole pressure and temperature data will be used to perform the injectate density calculation.

5.2.3 Continuous Monitoring of Annular Pressure

BP will implement the following procedures to limit the potential for fluid movement into or out of the annulus:

1. [REDACTED]
2. [REDACTED]
3. [REDACTED]
4. [REDACTED]
5. [REDACTED]

If system communication is lost for greater than 30 minutes, Site personnel will perform field monitoring of manual gauges every 6 hours for both wellhead surface pressure and annulus pressure and record hard copies of the data until communication is restored.

Any changes to the composition of annular fluid will be reported to the UIC Program Director in the next regular report. Average annular pressure and annulus tank fluid level will be recorded daily. The volume of fluid added or removed from the system will be recorded.

6. CORROSION MONITORING [40 CFR 146.90(c)]

To meet the requirements of 40 CFR 146.90(c), BP will monitor well materials during the operation period for loss of thickness, mass, cracking, pitting, and other signs of corrosion to ensure that the well components meet the minimum standards for material strength and performance.

In accordance with 40 CFR 146.90(c)(1), BP will monitor corrosion using the corrosion coupon method and collect samples according to the description below. Coupons provide a direct measurement of material lost to corrosion.

6.1 Monitoring Frequency

Baseline assessment for corrosion coupon samples will be completed after receiving authorization to inject. Corrosion monitoring will occur quarterly, beginning 3 months after the date of injection authorization, for the duration of injection.

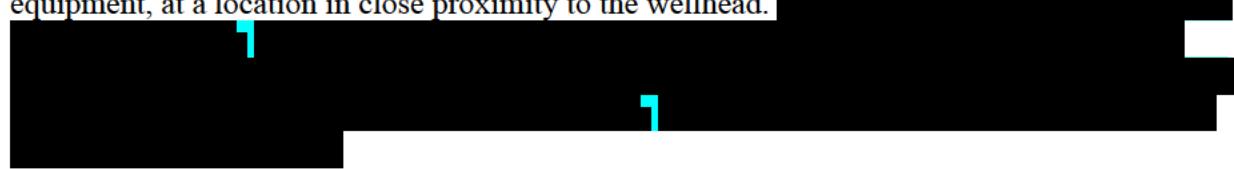
6.2 Sampling and Monitoring Details

The corrosion monitoring program will use conventional corrosion coupon analysis. As noted on **Table 4**, the coupons will reflect the materials of construction for the equipment that will be exposed to the CO₂ stream.

These coupons will be removed every quarter, cleaned, and reweighed. The samples will be visually inspected under magnification for loss of mass, thickness, cracking, pitting, or other signs of corrosion. The corrosion monitoring program will be maintained and modified as needed to meet the requirements of 40 CFR 146.90(c).



In accordance with 40 CFR 146.90(c), a corrosion monitoring system will be constructed downstream of all process equipment, including the compression, dehydration, and pumping equipment, at a location in close proximity to the wellhead.



The coupons will be analyzed to document changes in dimensions, height, and appearance. Rates and trends of the corrosion will be evaluated for each coupon. Each test will be performed to a minimum dimension standard of 10 times power, dimensionally measured to the third significant figure, and weighed to the fifth significant figure. When more significant figures are available on the measuring instruments, these will be recorded. The weight will be used to calculate the corrosion rate in mils/year (mils/yr), where a mil is equal to a thousandth of an inch. If the coupons are found to have more than 3 mils/yr of loss, corrective action will be taken.

The ASTM International G1-03 2017 standard for Prepping, Cleaning, and Evaluating Corrosion Test Specimens will be used to demonstrate that the methods used above are an accurate representation of downhole conditions.

7. ABOVE CONFINING ZONE MONITORING [40 CFR 146.90(d)]

In accordance with 40 CFR 146.90(d), BP will monitor groundwater quality and geochemical changes above the confining zone during the operation period.

7.1 Monitoring Location and Frequency

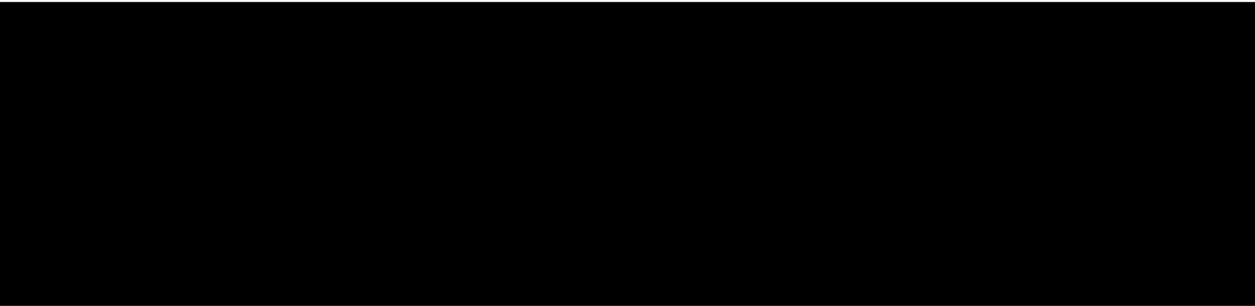
The depth of the USDW is based on log data acquired from the appraisal well and subregional USDW analysis described in **Section 5** of the AoR and Corrective Action Plan (**Appendix B**).

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- Legacy Wells: potential to act as vertical conduits for pressurized fluid to enter a USDW; and
- Injection Wells: could increase pressure beyond the confining zone limit, potentially allowing pressurized fluid to escape the CO₂ storage reservoir.

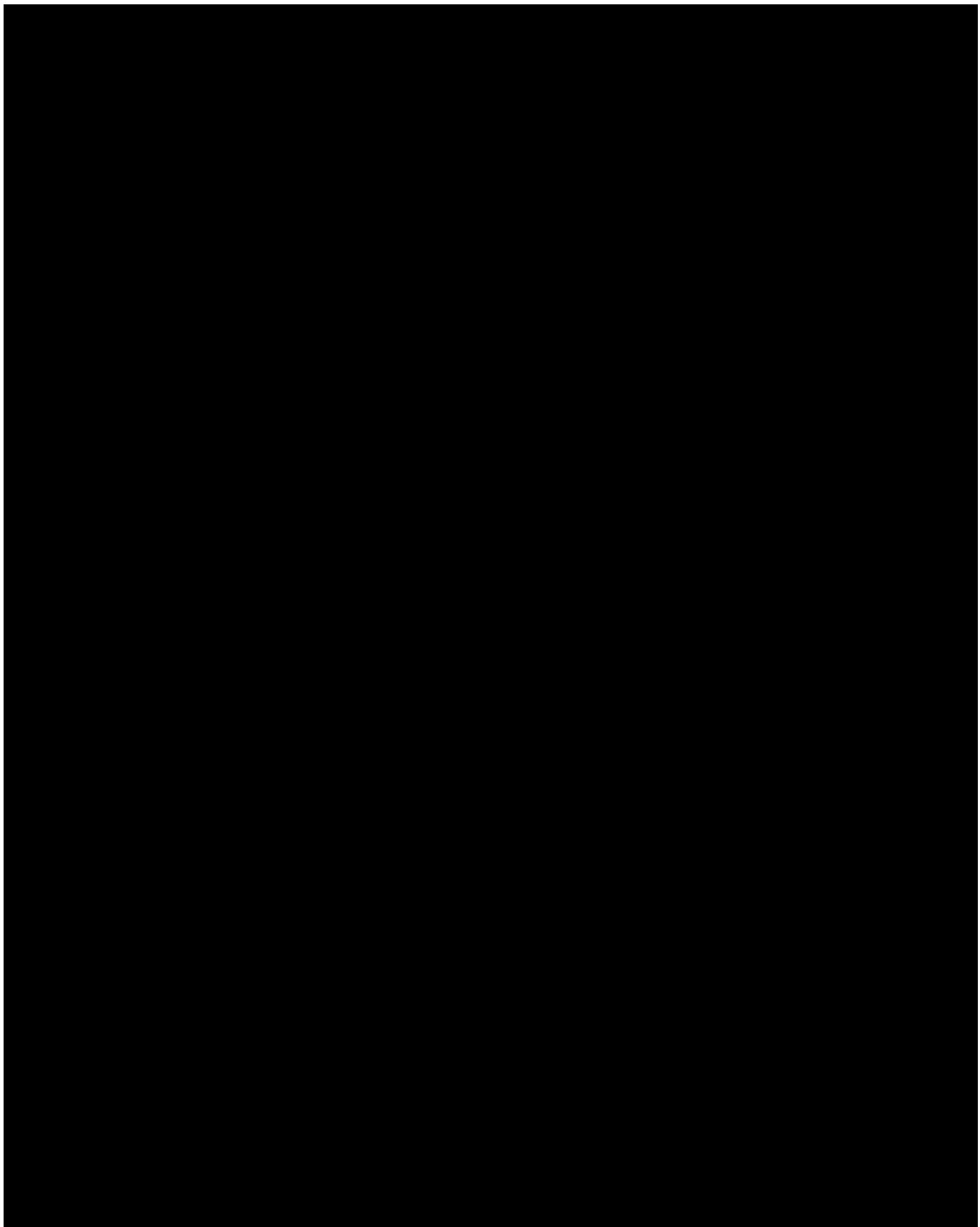
Figure 1 below shows the locations of the planned above-confining-zone monitoring wells relative to the maximum extent of the CO₂ plume and AoR pressure front.

Each monitoring well will be located hydraulically downgradient of legacy wells and upgradient of existing groundwater wells to most efficiently warn of potential migration above the confining zone.



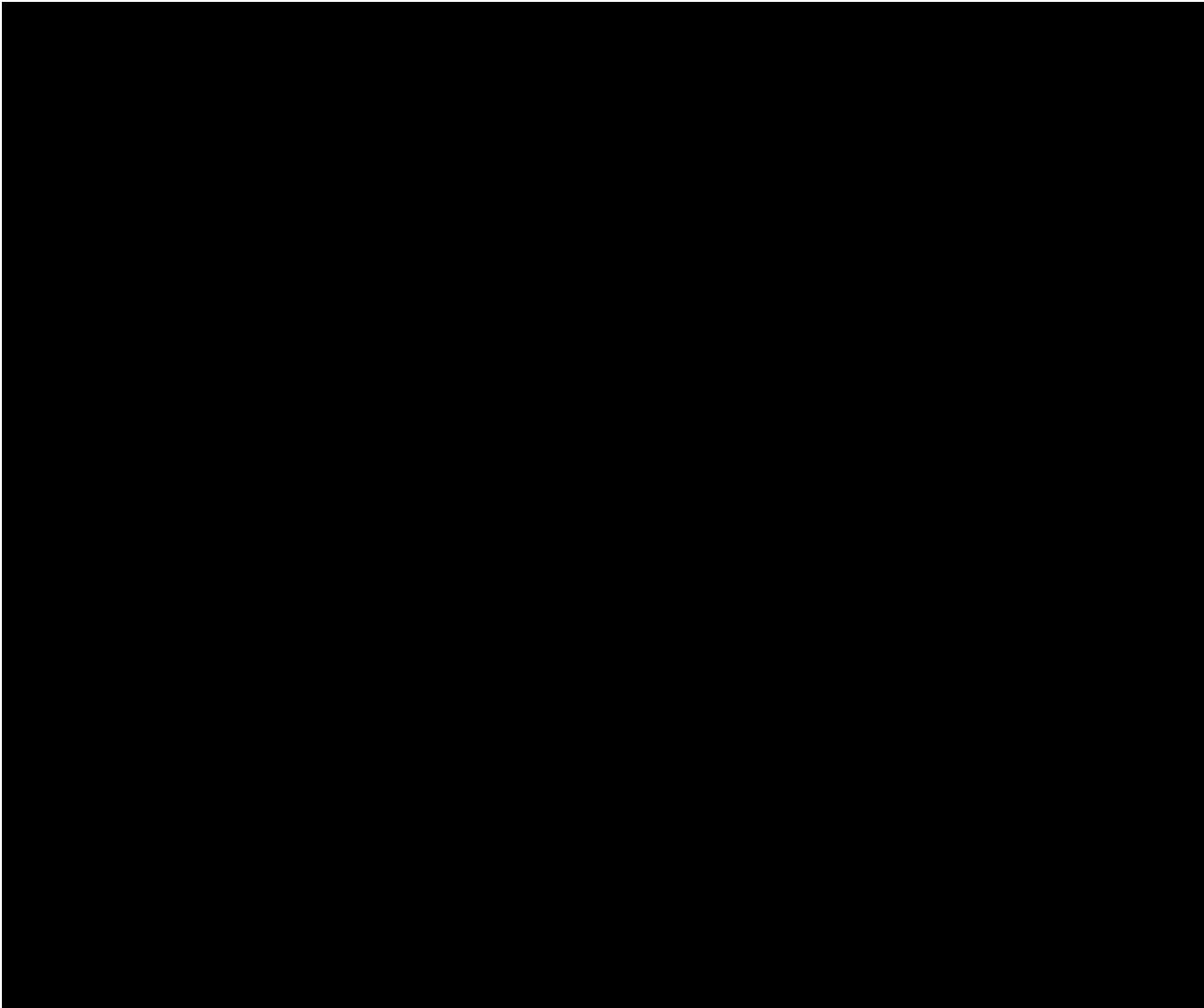
Monitoring methodologies and monitoring locations are detailed on **Table 5** below. Because groundwater pressures in monitored zones are expected to be relatively stable, variations from initial condition pressures identified through sampling and analysis may provide an indicator of potential leakage from the injection zone. Pressure and temperature will be monitored continuously to identify indicators of potential leakage from the injection zone.

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Initial conditions for the parameters described below in **Section 7.2** will be developed prior to the injection at the Site. The initial conditions will be utilized to compare and track changes in the monitored data. As described in **Appendix H** (Emergency and Remedial Response Plan), if significant abnormalities are identified compared to the initial condition data, additional sampling may be warranted. As described in the notes below **Table 5**, routine quarterly monitoring for a full suite of parameters will occur in the first two years of injection activities, followed by semi-annual or annual monitoring, thereafter, as indicated in the table.

Table 5 shows the planned monitoring methods, locations, and frequencies for groundwater quality and geochemical monitoring above the confining zone. Continuous monitoring is uninterrupted monitoring where values are extracted at specific pre-defined intervals to meet project requirements.

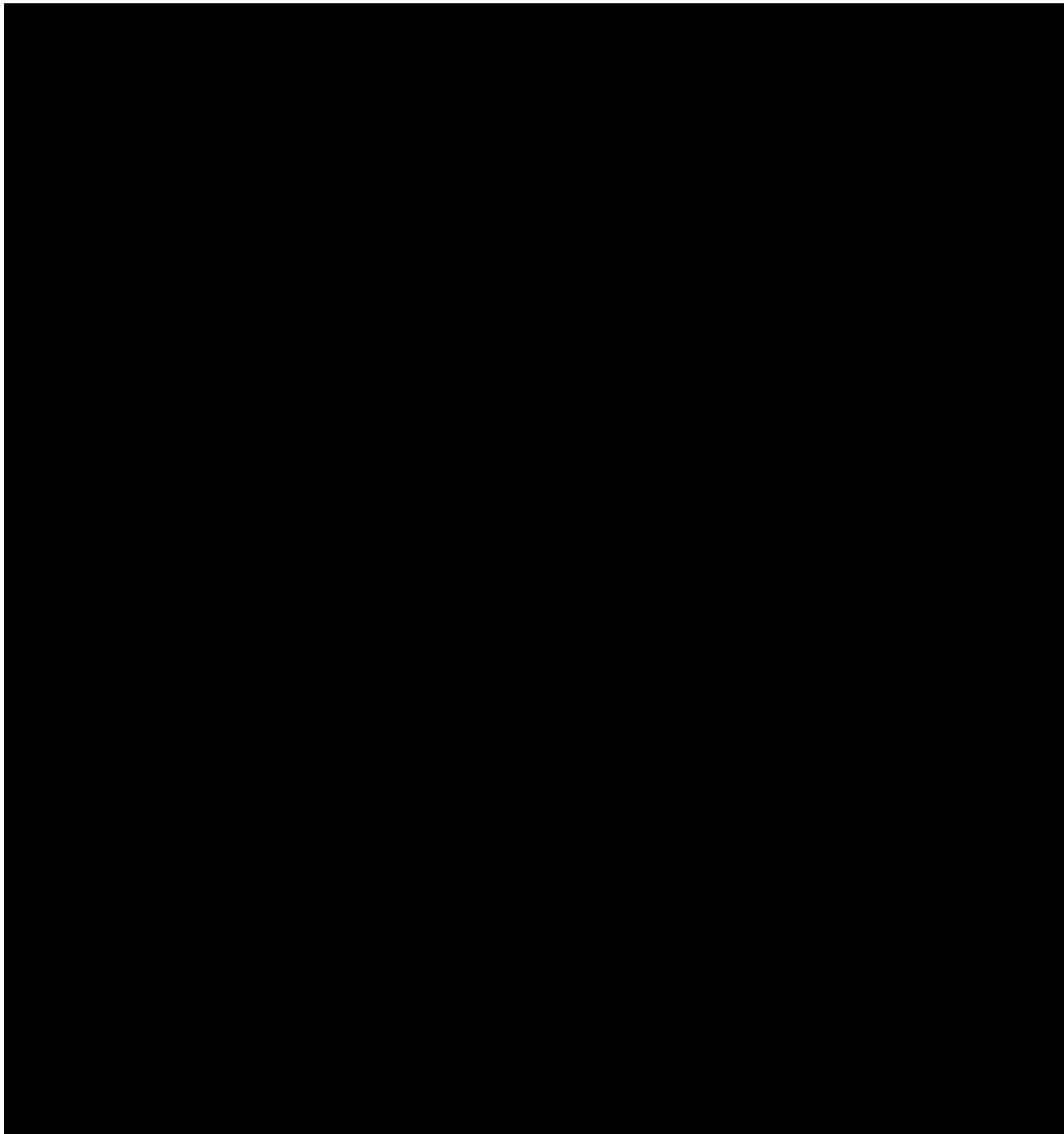


7.2 Analytical parameters

Table 6 identifies the parameters to be monitored and the analytical methods BP will use. Monitoring data will be continuously evaluated throughout injection and specific parameters will be changed in response to site conditions and in accordance with 40 CFR 146.90(j).

As noted in the previous section, initial conditions data will be gathered prior to injection. Groundwater sampling will be compared to the initial conditions data to identify significant changes in the characteristics that may indicate migration of CO₂.





7.3 Sampling Methods

Per 40 CFR 146.90(k), the QASP (**Attachment 1**) describes the testing and monitoring activities conducted for this Site. The monitoring strategy is described in **Section B.1** of the QASP, and the groundwater sampling methods to be employed, including sampling standard operating procedures and sample preservation are described in **Sections B.2.a/b and B.2.g**, respectively.

7.4 Laboratory to Be Used/Chain of Custody Procedures

An accredited third-party laboratory will be used to analyze samples and will adhere to standardized procedures for gas chromatography, mass spectrometry, detector tubes, and photo ionization. Once a third-party laboratory is chosen, this section will be updated with the laboratory's name. Detection limits are included on **Table A.6** of the QASP (**Attachment 1**), while chain of custody procedures are described in **Section B.3.e**.

8. EXTERNAL MECHANICAL INTEGRITY TESTING [40 CFR 146.89(c), 40 CFR 146.90(e)]

BP will conduct at least one of the tests presented on **Table 7** periodically during injection as part of external Mechanical Integrity Testing (MIT) required by 40 CFR 146.89(c) and 40 CFR 146.90(e). BP will also conduct an external MIT prior to injection well plugging, after the cessation of injection.

8.1 Testing Location and Frequency

External MITs will be completed to demonstrate the external integrity of the injection wells. During injection, at least one of the tests on **Table 7** will be completed annually, prior to the anniversary date of authorization of injection. External MITs may also be completed on monitoring wells if routine testing data indicates potential issues with the integrity of a monitoring well.

Table 7. Mechanical Integrity Testing

Test Description	Location
Temperature Log	Along wellbore using DTS or wireline well log
Noise Log	Wireline Well Log
Oxygen Activation Log	Wireline Well Log

Notes: DTS – distributed temperature sensing

8.2 Testing Details – Description of MITs That May Be Employed

The following general procedures will be followed for the logs listed on **Table 7**:

- Move in and rig up wireline logging unit.
- Assemble the temperature log oxygen activation log or noise logging tool.
- Rig up wireline pressure control equipment and test for leaks.
- Run in the hole with tools to plug back total depth and log to surface per industry cased-hole standards.
- Recover tools and rig down.
- Interpret log results.

- Prepare report in accordance with 40 CFR 146.91(b)(1).

Additional procedures specific to each MIT are further described below.

8.2.1 Temperature Logging Using Wireline

Temperature log data will be recorded across each injection wellbore from confining caprock to surface. These temperature data will be used to ensure mechanical integrity of the casing of the injection wells. The following procedures will be implemented for temperature logging, in addition to the general procedures described in **Section 8.2** above:

1. Ensure that the well is in a state of injection for sufficient time to set the baseline temperature.
2. Conduct temperature logging from the confining caprock to surface according to industry-accepted procedures.
3. Compare the two injection temperature profiles. Any anomalies could indicate failure of well integrity.

8.2.2 Temperature Logging Using DTS Fiber Optic Line

The distributed temperature sensing (DTS) line can be used for real-time temperature monitoring, and similar to a conventional temperature log, it can allow for early detection of temperature changes that may indicate a loss of well mechanical integrity.

Temperature logging will be completed according to industry-accepted procedures. In addition to the general procedures described in **Section 8.2** above, the procedures for using DTS for well mechanical integrity are as follows:

1. A baseline temperature will be established after the well is completed and prior to injection. The baseline is representative of the natural temperature gradient for the formation zone.
2. Record the temperature during injection operations prior to shutting in the well.
3. Stop injection operations and record temperature profile. Use recorded temperature to determine if additional cooling time is needed for the interpretation based on evaluation of data.
4. Begin injection and record temperatures for shut-in.
5. Compare the temperature profile along the tubing when the well cools down to the baseline temperature profile.

8.2.3 Noise Logging

Noise logging data will be recorded across the wellbore from surface down to primary caprock according to an industry-accepted procedure to ensure the mechanical integrity of the casing of each injection well. Noise logging will be carried out while injection is occurring.

8.2.4 Oxygen Activation Logging

Oxygen activation (OA) log data will be recorded across the wellbore from confining caprock to surface according to industry-accepted procedures. This logging data will be used to ensure mechanical integrity of the casing of the injection wells. This log will be performed while injection is ongoing.

9. PRESSURE FALL-OFF TESTING [40 CFR 146.90(f)]

BP will perform pressure fall-off tests during injection as described below to meet the requirements of 40 CFR 146.90(f).

9.1 Testing Location and Frequency

Pressure fall-off testing will be performed:

1. During injection, at least once every five years;
2. Potentially at other stages during routine or required well maintenance periods; and
3. At the end of the injection period.

In accordance with 40 CFR 146.91 and specifically 40 CFR 146.91(b)(3), results of the fall-off tests will be submitted to the UIC Program Director.

9.2 Testing Details

In addition to the general procedures described in **Section 8.2** above, BP will perform the following procedures for the pressure fall-off testing:

1. The pressure fall-off test period will have an injection period followed by a period of no-injection (or shut-in).
2. The standard stream of captured CO₂ will be used during the injection period preceding the shut-in portion of the fall-off tests.
3. [REDACTED]
4. The injection rate will be held constant prior to the fall-off test. If this rate causes relatively large changes in bottomhole pressure, the rate may be decreased.
5. Ensure there is at least a minimum of one week of relatively continuous injection preceding the shut-in portion of the fall-off test. This data will be measured using a surface readout downhole gauge so a final decision on test duration can be made after the data is analyzed for average pressure.

6. The well should be simultaneously shut in at the wellhead and at the injection compression facility. This will help reduce the wellbore storage effects to the pipeline and surface equipment.
7. Data will be collected at five-second intervals or less for the entire test to help eliminate downhole recording memory restrictions.
8. The shut-in period of the fall-off test will be at least three days, or longer, until adequate pressure transient data are collected to calculate the average pressure. The shut-in duration can be determined in real-time, as surface readout gauges will be utilized.
9. A report containing the pressure fall-off data and interpretation of the reservoir ambient pressure will be submitted to the permitting agency within 30 days of the test.
10. Pressure sensors used for this test will be the wellhead sensors and a downhole gauge for the pressure fall-off test.
11. Each gauge will be of a type that meets or exceeds ASME B 40.1. The wellhead pressure gauge range will be 0 – 5,000 psi. The downhole gauge range will be 0 – 10,000 psi.

10. CO₂ PLUME AND PRESSURE FRONT TRACKING [40 CFR 146.90(g)]

BP will employ direct and indirect methods to track the extent of the CO₂ plume and the presence or absence of elevated pressure during injection to meet the requirements of 40 CFR 146.90(g). BP intends to supplement this plan with additional data from the appraisal well, dynamic simulation model, geologic site characteristics, and other relevant information sources.

10.1 Plume Monitoring Location and Frequency

[REDACTED]

[REDACTED]

[REDACTED]

These data, if developed, will be used to further calibrate and refine modeling.

[REDACTED]

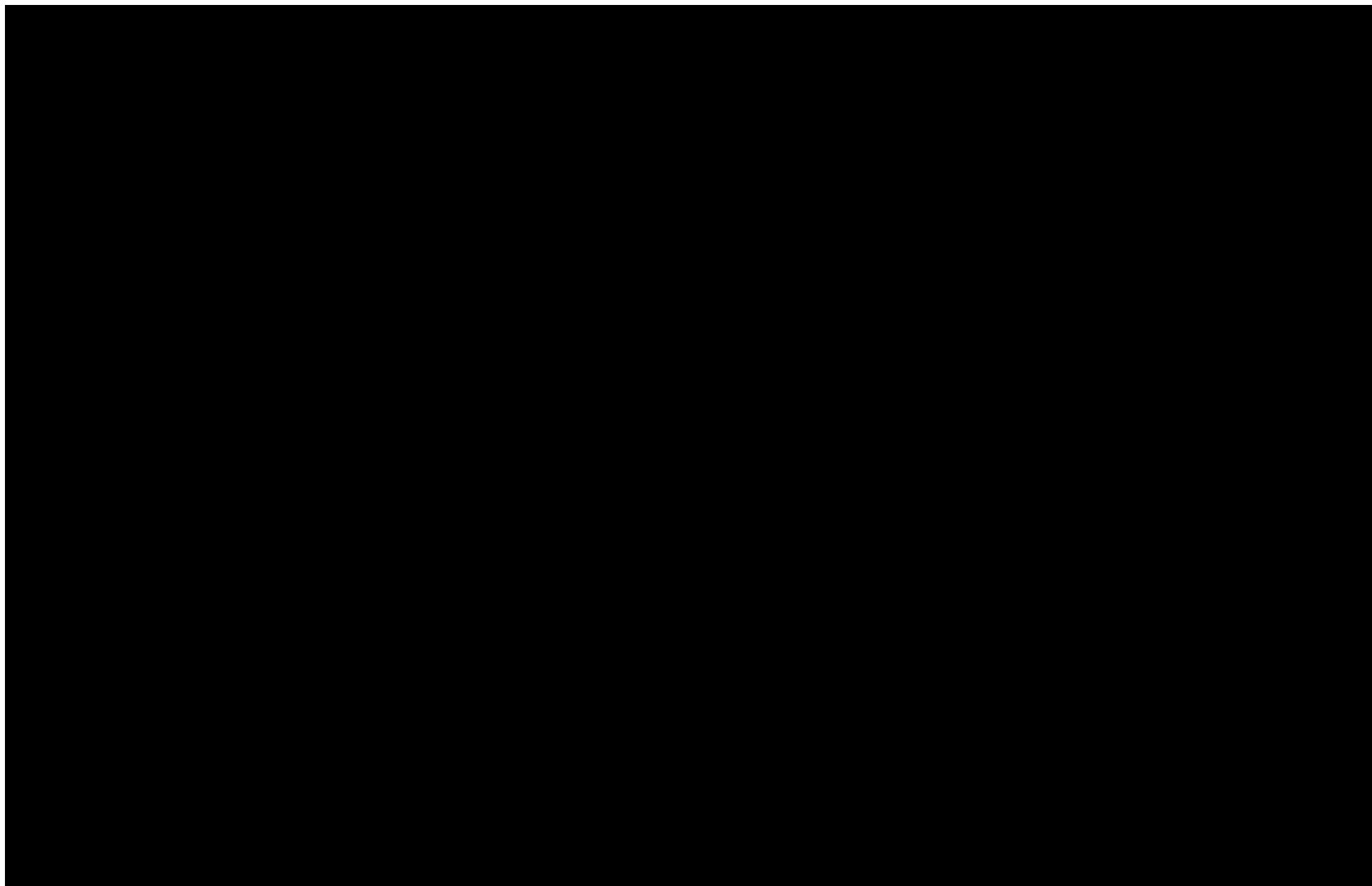
10.2 Plume Monitoring Details

Monitoring locations relative to the predicted location of the CO₂ plume and pressure front at 1-year intervals through the first seven years of injection are shown in **Figure 2** below. See the Area of Review and Corrective Action Plan (**Appendix B**) sections titled “Critical Pressure Calculations” and “AoR Delineation” for the derivation of P_{crit} and AoR.



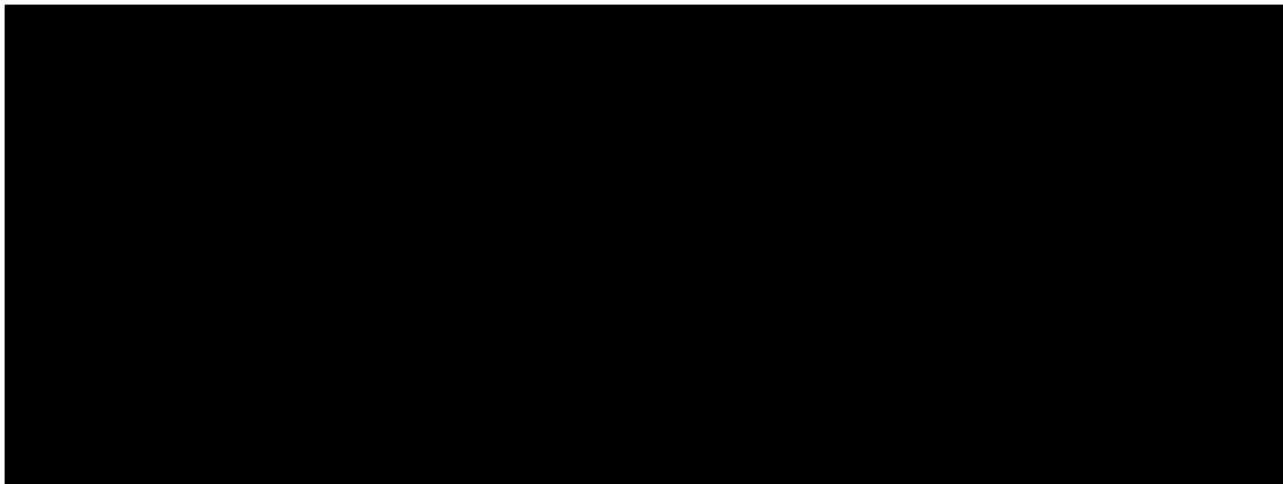
These surveys are expected to show a time-lapse view of CO₂ saturation increase as the plume spreads out throughout the life of the project.

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The section “Reevaluation Schedule and Criteria” in the Area of Review and Corrective Action Plan (**Appendix B**) further explains how CO₂ plume monitoring data and analysis will be used to history-match modeled results and update model predictions to support BP’s demonstration of non-endangerment of USDWs.

Table 8 describes potential indirect methods that BP may use to further investigate the position of the CO₂ plume. BP has not yet determined which indirect method(s) will be most appropriate for the Site. Quality assurance procedures for these potential method(s) are included in the QASP (**Attachment 1**).



10.3 Pressure-Front Monitoring Location and Frequency

Monitoring locations relative to the predicted location of the CO₂ plume and pressure at 1-year intervals through the first seven years of injection are shown on **Figure 2** above. As part of an adaptive monitoring strategy, pressure monitoring may be deployed in additional in-zone monitoring wells but placed at a distance that is farther from injection wells, if and when such monitoring is deemed useful.

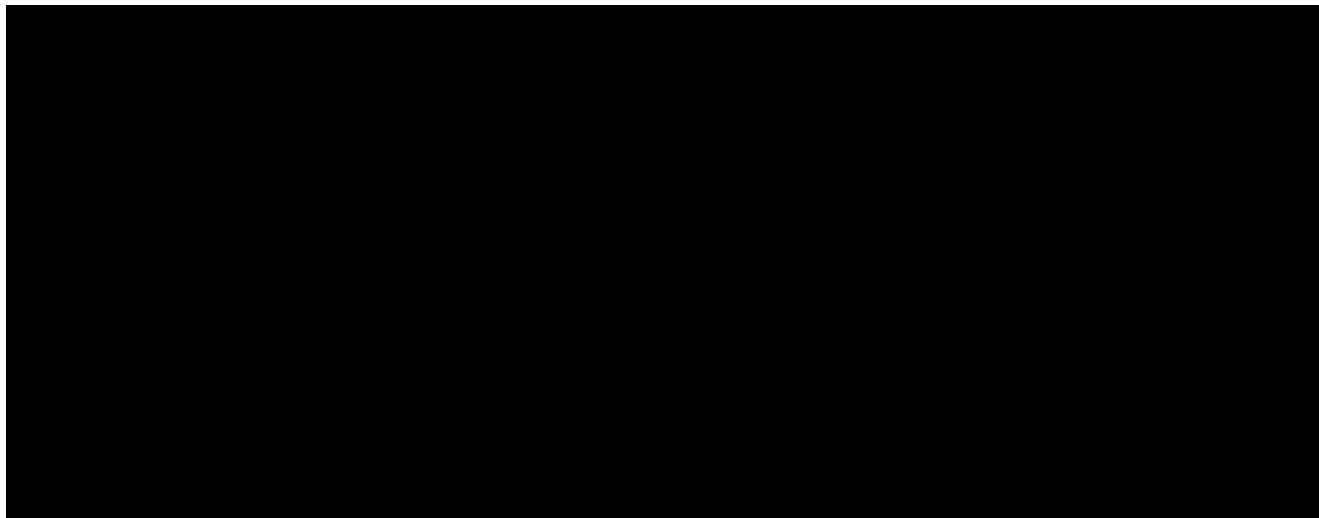
Passive seismic monitoring will also be performed within the AoR to indirectly detect pressure anomalies impacting the subsurface that may trigger micro-seismicity. A desktop study will be performed to determine the optimal combination of borehole and surface seismic stations to detect local events over M 1.0 within the AoR.

10.4 Pressure-Front Monitoring Details

They will then record the buildup and drop off pressure over the life of the project. These wells are planned to show a time-lapse view of pressure increase via pressure sensors. See the section “Reevaluation Schedule and Criteria” in the Area of Review and Corrective Action Plan (**Appendix B**) for how pressure monitoring data and analysis will be

used to history-match modeled results and update forward model predictions to support the non-endangerment demonstration.

Table 9 presents the methods that BP will use to monitor the position of the pressure front, including the activities, locations, and frequencies. A frequency that is continuous refers to uninterrupted monitoring where values are extracted at specific pre-defined intervals to meet project requirements. Quality assurance procedures for these methods are presented in the QASP (Attachment 1).



11. SURFACE AIR MONITORING OR SOIL GAS MONITORING [40 CFR 146.90(h)]

If surface air monitoring and/or soil gas monitoring is required by the UIC Program Director under 40 CFR 146.90(h), this Plan will be updated.

12. PERIODIC REVIEW OF TESTING AND MONITORING PLAN [40 CFR 146.90(j)]

At a frequency of no less than once every five years, BP will periodically review this Plan in accordance with 40 CFR 146.90(j). The review will incorporate monitoring data, operational data, and the most recent AoR reevaluation performed under 40 CFR 146.84(e).

Based on the review, BP will submit to the UIC Program Director an amended Plan or a demonstration that no amendment to the Plan is needed within one year of an AoR reevaluation as required under 40 CFR 146.90(j)(1). Circumstances that could cause a more frequent review include significant changes to the Site or the request of the UIC Program Director.

BP understands that any amendments to this Plan must be approved by the UIC Program Director, must be incorporated into the permit, and are subject to the permit modification requirements at 40 CFR 144.39 or 40 CFR 144.41, as appropriate.

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Attachment 1
Quality Assurance and Surveillance Plan