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# [Permittee and Project Name] Project for the Long-Term Underground Storage of Carbon Dioxide (Carbon Sequestration)

## Community Update

Summary of Operations, Testing, and Monitoring for [Date Range]

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### Purpose of this Report

*Describe the purpose of the report including what it will be used for and what it covers.*

[Company Name] is providing this report to people who live or work near [Project Name]. The report provides information on actions [Company Name] is taking to ensure protection of drinking water in the area. It provides background on the project, explains the results of required testing and monitoring, and summarizes other activities [Company Name] has conducted to safely operate and maintain the project. This report covers the time period of [Date Range].

The U.S. Environmental Protection Agency (EPA) has issued a permit to [Company Name] that includes all requirements for the [Project Name]. Under the Safe Drinking Water Act, this permit allows [Company Name] to inject carbon dioxide (CO<sub>2</sub>) underground. At the end of this document, there are links to the permit, the testing and monitoring plans, and other reports [Company Name] submitted to the EPA as part of its permit application.

*This report was developed without review or input by EPA. It does not replace any requirements of the Safe Drinking Water Act and its regulations. Information presented here does not represent or affect EPA's determinations about whether the [Project Name] is in compliance with its permit requirements. Any violations of the Safe Drinking Water Act or its regulations remain subject to enforcement.*

### Project Background

Burning fossil fuels like coal, oil and natural gas releases CO<sub>2</sub> into the atmosphere. This has a major impact on earth's changing climate. Preventing CO<sub>2</sub> from entering the atmosphere is an important action for slowing down climate change. Long-term underground storage of CO<sub>2</sub> is also known as geologic sequestration. CO<sub>2</sub> is injected deep underground into natural rock formations to prevent it from entering the atmosphere.

[Two- to three-paragraph overview of the project specifics, including construction date and/or start date, project location(s), basic information about project siting, what will happen when injection ends, and other relevant information.]

There is more information on [Project Name] and geologic sequestration in the Additional Resources and Contacts section at the end of this report.

## Status Update

As of [Date], [Company Name] has injected [amount] metric tons of CO<sub>2</sub> into the [Project Name] wells. [Overview of community engagement efforts, to date and upcoming.]

Key updates since the last community report in [Date prior report was distributed] include:

- [Bulleted Updates]



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## Operations, Testing, and Monitoring Status

Testing/Monitoring Activity		Results	Actions to Address Results	Status and Trend Summary	
Type	Purpose			Current Results	Previous Results
Project Operation and Performance					
Continuous monitoring of CO <sub>2</sub> injection operations <i>Injection rate and volume and injection pressure monitoring</i>	<ul style="list-style-type: none"><li>Unexpected values for injection rate, volume, or CO<sub>2</sub> stream pressure may require adjustments to the injection rate.</li><li>Assess if the CO<sub>2</sub> stream has changed and whether action is needed to address any changes.</li><li>Test the underground rock formation to ensure capacity for continued injection.</li></ul>				
CO <sub>2</sub> stream analysis <i>Regular testing of the chemistry of the CO<sub>2</sub> in the process of being injected (stream)</i>					
Injection formation testing <i>Testing every 5 years to determine if CO<sub>2</sub> can still be injected at the desired rate</i>					
Well Condition					
Corrosion monitoring <i>Quarterly testing for deterioration of well materials</i>	<ul style="list-style-type: none"><li>Ensure the well is in good physical condition. This prevents the movement of CO<sub>2</sub> or</li></ul>				

○ Results as expected/required

◐ Results require additional follow-up; no anticipated impact on community

● Results require additional follow-up, with potential impact on community

Testing/Monitoring Activity		Results	Actions to Address Results	Status and Trend Summary	
Type	Purpose			Current Results	Previous Results
<b>External mechanical integrity testing (MIT)</b> Annual testing of the condition of the outer surface of the injection well	briny water into underground rock outside of the permitted injection zone or other leakage.				
<b>Internal mechanical integrity monitoring</b> Monitoring or testing of the interior condition of the injection well	<ul style="list-style-type: none"> <li>Verify that there is no fluid movement along the outside of the well (external) or leakage within the well (internal).</li> </ul>				
<b>Tracking CO<sub>2</sub> Plume and Pressure in the Injection Formation</b>					
<b>Direct pressure tracking</b> Measuring pressure via sensors in the injection and/or monitoring wells	<ul style="list-style-type: none"> <li>Measure pressure in the injection zone and track if the stored CO<sub>2</sub> is remaining in the porous rock area as intended.</li> </ul>				
<b>Direct CO<sub>2</sub> plume tracking</b> Measuring the CO <sub>2</sub> in the injection zone via monitoring wells	<ul style="list-style-type: none"> <li>Determine if the stored CO<sub>2</sub> could come into contact with and contaminate underground drinking water sources.</li> </ul>				
<b>Indirect pressure and CO<sub>2</sub> plume tracking in the injection zone</b> Tracking the CO <sub>2</sub> and pressure in the injection formation using equipment on the surface					

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Testing/Monitoring Activity		Results	Actions to Address Results	Status and Trend Summary	
Type	Purpose			Current Results	Previous Results
Groundwater Quality					
Monitoring water quality Testing water quality for changes that could be due to CO <sub>2</sub> leakage	<ul style="list-style-type: none"><li>Assess whether there has been any contamination of underground drinking water sources.</li></ul>				
Seismic Monitoring					
Monitoring seismicity Monitoring for natural or injection-related seismicity with a passive sensor network	<ul style="list-style-type: none"><li>Detect small (cannot be felt at the surface) or larger (can be felt at the surface) natural seismic events or seismic caused by the CO<sub>2</sub> injection.</li><li>Determine whether seismic events require changes in the project.</li></ul>				
Surface Air and Soil Gas Monitoring					
Soil gas monitoring Monitoring surface air and soil gas for CO <sub>2</sub> concentrations	Assess whether there may be fluid movement outside of the injection zone.				

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## Questions? Contact Us!

Topic of Interest	Information Source
General questions	Contact: [Name, Title, Phone Number and Email address]
Details of testing and monitoring procedures and results	[Link to relevant documents] Contact: [Name, Title, Phone Number and Email address]
More information about the [Project Name]	[Link to Website] Contact: [Name, Title, Phone Number and Email address]
UIC permit for [Project Name]	[Link to UIC Permit]
Emergency response	<b>County</b> [County Agency Name] Contact: [Name, Title, Phone Number and Email address] <b>State</b> [State Agency Name] Contact: [Name, Title, Phone Number and Email address]
Community alerts	Sign up for text and e-mail alerts at [Link to Website]

## Additional Resources and Contacts

Topic of Interest	Information Source
County requirements for [Project Name]	Contact: [Name, Title, Phone Number and Email address]
State requirements for [Project Name]	Contact: [Name, Title, Phone Number and Email address]
EPA permit requirements for [Project Name]	EPA Region [Number] Contact: [Name, Title, Phone Number and Email address] [Link to Permit Documents]
EPA Resources on Underground Injection and Carbon Sequestration	[Links to Relevant Documents]