

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AGENDA ITEM REQUEST
for Proposed Rulemaking

AGENDA REQUESTED: July 17, 2024

DATE OF REQUEST: June 28, 2024

INDIVIDUAL TO CONTACT REGARDING CHANGES TO THIS REQUEST, IF NEEDED: Gwen Ricco, Rule/Agenda Coordinator, (512) 239-2678

CAPTION: **Docket No. 2024-0595-RUL.** Consideration for publication of, and hearing on, proposed amended Sections 331.11 and 331.132 of 30 TAC Chapter 331, Underground Injection Control.

The proposed rulemaking would implement Senate Bill (SB) 786 and SB 1186, 88th Legislature, 2023. The proposed rulemaking implements SB 1786 by amending rules to remove requirements for the regulation of closed-loop geothermal injection wells as a type of Class V injection well under commission jurisdiction. The proposed rulemaking implements SB 786, SB 1186, and provisions of Texas Water Code Chapter 27 by identifying certain types of injection wells for which the Railroad Commission of Texas has jurisdiction to regulate. The proposed rulemaking corrects a typographical error when referring to closed loop injection wells. (Dan Hannah, Don Redmond; Rule Project No. 2024-020-331-WS)



Director



Division Deputy Director

Gwen Ricco

Agenda Coordinator


Copy to CCC Secretary? NO YES

Texas Commission on Environmental Quality

Interoffice Memorandum

To: Commissioners **Date:** June 28, 2024

Thru: Laurie Gharis, Chief Clerk
Kelly Keel, Executive Director

From: Beth Seaton, Director 
Office of Waste

Docket No.: 2024-0595-RUL

Subject: Commission Approval for Proposed Rulemaking
Chapter 331, Underground Injection Control
Implementing Senate Bill (SB) 786 and SB 1186, 88th Texas Legislature, 2023,
Relating to Agency Jurisdiction of Closed-loop Geothermal Injection Wells and
Injection Wells Used for Brine Mining
Rule Project No. 2024-020-331-WS

Background and reason(s) for the rulemaking:

This proposed rulemaking implements Senate Bill (SB) 786 and SB 1186, 88th Texas Legislature, 2023, addressing agency jurisdiction over regulation of closed-loop geothermal injection wells and agency jurisdiction over brine mining injection wells in Texas. SB 786 confers the Railroad Commission of Texas (RRC) with jurisdiction over the regulation of closed-loop geothermal injection wells. SB 1186 confers the RRC with jurisdiction over the regulation of brine mining and the injection wells used for brine mining.

Scope of the rulemaking:

This proposed rulemaking implements SB 786 by amending the commission's underground injection control rules to remove requirements for the regulation of closed-loop geothermal injection wells. Prior to the enactment of SB 786, the commission's underground injection control rules included geothermal closed-loop injection wells as a type of Class V injection well under the jurisdiction of the commission. SB 786 provides that all commission functions and activities that relate to the regulation of closed-loop geothermal injection wells are transferred to the RRC. The proposed rulemaking also implements SB 1186 by amending the commission's underground injection control rules to acknowledge that the RRC has jurisdiction over the regulation of Class V injection wells used for brine mining.

A.) Summary of what the rulemaking would do:

The proposed rulemaking amends 30 Texas Administrative Code (TAC) §331.11 to remove subparagraph (a)(4)(B) relating to closed-loop geothermal injection wells to implement SB 786. The proposed rulemaking implements SB 786 and SB 1186 by amending subsection (b) to identify types of injection wells and activities under the jurisdiction of the RRC. This rulemaking would also correct a typographical error in 30 TAC §331.132(d)(3).

B.) Scope required by federal regulations or state statutes:

The proposed rulemaking is not required by federal regulations. The rulemaking implements state statutes in Texas Water Code (TWC), §27.036 and §27.037 as established by SB 786 and SB 1186.

C.) Additional staff recommendations that are not required by federal rule or state statute: The proposed rule would correct a typographical error in 30 TAC §331.132(d)(3) to change "close loop" to "closed loop."

Re: Docket No. 2024-0595-RUL

Statutory authority:

The amendments are proposed under TWC, Chapter 5, §5.013, which establishes the general jurisdiction of the commission; §5.102, which provides the commission with the authority to carry out its duties and general powers under its jurisdictional authority as provided by TWC; §5.103, which requires the commission to adopt any rule necessary to carry out its powers and duties under the TWC and other laws of the state; and §27.019, which authorizes the commission to adopt rules for the performance of its powers, duties and functions under the Injection Well Act.

The proposed rules implement SB 786 and SB 1186, TWC, §§27.011, 27.031, 27.035, 27.036, 27.037, 27.041, and 27.0511.

Effect on the:

A.) Regulated community:

Commission rules are proposed to be amended to reflect RRC jurisdiction over closed-loop geothermal injection wells and injection wells used for brine mining as established in SB 786 and SB 1186. Operators of closed-loop geothermal injection wells and injection wells used for brine mining are subject to RRC regulation and authority.

B.) Public:

Commission rules are proposed to be amended to implement state legislation that confers RRC with regulatory authority over closed-loop geothermal injection wells and injection wells used for brine mining. The proposed rule changes will help direct the public to the correct state agency for the regulation of these types of injection wells.

C.) Agency programs:

The proposed rules will have minimal impact on agency programs. On September 1, 2023, all functions and activities for the regulation of closed-loop geothermal injection wells were transferred to RRC. All property of the TCEQ, including records, related to closed-loop geothermal injection wells was also transferred to the RRC. No significant fiscal implications are anticipated for the agency or for other units of state or local government as a result of administration or enforcement of the proposed rule.

Stakeholder meetings:

The commission did not hold any stakeholder meetings related to this rulemaking; however, a rule public hearing will be held in Austin during the comment period.

Public Involvement Plan

A public involvement plan is required.

Alternative Language Requirements

Yes. Spanish.

Potential controversial concerns and legislative interest:

No potential controversial concerns and/or legislative interest have been identified.

Would this rulemaking affect any current policies or require development of new policies?

This rulemaking would not affect any current policies or require development of new policies. The RRC plans to implement SB 786 through adoption of their own rules relating to Class V closed-loop geothermal injection wells.

Re: Docket No. 2024-0595-RUL

What are the consequences if this rulemaking does not go forward? Are there alternatives to rulemaking?

If this rulemaking does not go forward, current TCEQ rule language that includes closed-loop geothermal injection wells as a type of Class V injection well subject to TCEQ jurisdiction would conflict with the statutory provisions of TWC §27.037 as established in SB 786 that conferred jurisdiction to RRC. This could lead to confusion within the regulated community and the public, resulting in inefficient and delayed processing times of permit and/or authorization applications.

Key points in the proposal rulemaking schedule:

Anticipated proposal date: July 17, 2024

Anticipated *Texas Register* publication date: August 2, 2024

Anticipated public hearing date: August 29, 2024

Anticipated public comment period: August 2, 2024 - September 3, 2024

Anticipated adoption date: December 18, 2024

Agency contacts:

Dan Hannah, Rule Project Manager, Radioactive Materials Division, (512) 239-2161

Don Redmond, Staff Attorney, Environmental Law Division, (512) 239-0612

Gwen Ricco, Texas Register Rule/Agenda Coordinator, General Law Division, (512) 239-2678

Attachments:

SB 786, SB 1186

cc: Chief Clerk, 2 copies
Executive Director's Office
Jim Rizk
Krista Kyle
Jessie Powell
Office of General Counsel
Dan Hannah
Don Redmond
Gwen Ricco

AN ACT

relating to the regulation by the Railroad Commission of Texas of closed-loop geothermal injection wells.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF TEXAS:

SECTION 1. Subchapter C, Chapter 27, Water Code, is amended by adding Section 27.037 to read as follows:

Sec. 27.037. JURISDICTION OVER CLOSED-LOOP GEOTHERMAL INJECTION WELLS. (a) In this section, "closed-loop geothermal injection well" means a closed system geothermal well used to circulate water, other fluids, or gases through the earth as a heat source or heat sink to generate power or heat or cool a structure.

(b) The railroad commission has jurisdiction over closed-loop geothermal injection wells and may issue permits for closed-loop geothermal injection wells, including individual permits, general permits, or permits by rule.

(c) A person may not begin drilling a closed-loop geothermal injection well unless that person holds a valid permit issued by the railroad commission under this section.

(d) For purposes of railroad commission regulation, a closed-loop geothermal injection well is designated as a Class V well under the underground injection control program administered by the railroad commission.

(e) The railroad commission shall adopt rules as necessary to administer this section and regulate closed-loop geothermal

1 injection wells.

2 SECTION 2. (a) In this section:

3 (1) "Closed-loop geothermal injection well" has the
4 meaning assigned by Section 27.037, Water Code, as added by this
5 Act.

6 (2) "Commission" means the Texas Commission on
7 Environmental Quality.

8 (3) "Railroad commission" means the Railroad
9 Commission of Texas.

10 (b) On the effective date of this Act:

11 (1) all functions and activities performed by the
12 commission that relate to the regulation of closed-loop geothermal
13 injection wells under Chapter 27, Water Code, are transferred to
14 the railroad commission;

15 (2) a rule, standard, or form adopted by the
16 commission that is related to the regulation of closed-loop
17 geothermal injection wells under Chapter 27, Water Code, is a rule,
18 standard, or form of the railroad commission and remains in effect
19 until altered by the railroad commission;

20 (3) a proceeding involving the commission that is
21 related to the regulation of closed-loop geothermal injection wells
22 under Chapter 27, Water Code, is transferred without change in
23 status to the railroad commission, and the railroad commission
24 assumes, without change in status, the position of the commission
25 in any proceeding relating to the regulation of closed-loop
26 geothermal injection wells to which the commission is a party;

27 (4) all money, contracts, leases, rights, and

1 obligations of the commission related to closed-loop geothermal
2 injection wells under Chapter 27, Water Code, are transferred to
3 the railroad commission;

4 (5) all property, including records, in the custody of
5 the commission related to the regulation of closed-loop geothermal
6 injection wells under Chapter 27, Water Code, is transferred to the
7 railroad commission; and

8 (6) all money appropriated to the commission for
9 purposes related to the regulation of closed-loop geothermal
10 injection wells under Chapter 27, Water Code, is transferred to the
11 railroad commission.

12 (c) Section 27.037, Water Code, as added by this Act, does
13 not affect the validity of a permit for a closed-loop geothermal
14 injection well issued before the effective date of this Act.

15 (d) Not later than the 90th day after the effective date of
16 this Act:

17 (1) the railroad commission shall issue a substitute
18 permit under the name and authority of the railroad commission to
19 each person who on the effective date of this Act holds a valid
20 permit issued by the commission for a closed-loop geothermal
21 injection well; and

22 (2) the commission shall transmit to the railroad
23 commission all pending applications for closed-loop geothermal
24 injection wells submitted to the commission before the effective
25 date of this Act.

26 SECTION 3. This Act takes effect September 1, 2023.

President of the Senate

Speaker of the House

I hereby certify that S.B. No. 786 passed the Senate on April 13, 2023, by the following vote: Yeas 30, Nays 0.

Secretary of the Senate

I hereby certify that S.B. No. 786 passed the House on May 18, 2023, by the following vote: Yeas 147, Nays 0, one present not voting.

Chief Clerk of the House

Approved:

Date

Governor

AN ACT

relating to the regulation by the Railroad Commission of Texas of brine mining.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF TEXAS:

SECTION 1. Section 27.036, Water Code, as added by Chapter 921 (H.B. 1867), Acts of the 69th Legislature, Regular Session, 1985, is amended to read as follows:

Sec. 27.036. JURISDICTION OVER BRINE MINING. (a) In this section:

(1) "Brine mining" means the production of brine, including naturally occurring brine and brine extracted by the solution of a subsurface salt formation, for the purpose of extracting from a subsurface formation elements, salts, or other useful substances, not including:

(A) oil, gas, or any product of oil or gas as defined by Section 85.001, Natural Resources Code; or

(B) fluid oil and gas waste, as defined by Section 122.001, Natural Resources Code.

(2) "Class V brine injection well" means a well that injects spent, naturally occurring brine produced by a brine mining operation into the same formation from which it was withdrawn after extraction of elements, salts, or other useful substances, including halogens or halogen salts.

(b) The railroad commission has jurisdiction over brine

1 mining and may issue permits for brine production wells and
2 injection wells used for brine mining.

3 (c) [~~(b)~~] A person may not begin to drill an injection well
4 to be used for brine mining unless that person has a valid permit
5 for the well issued by the railroad commission under this chapter.

6 (d) [~~(c)~~] The railroad commission shall adopt rules that
7 are necessary to administer and regulate brine mining.

8 (e) [~~(d)~~] For purposes of regulation by the railroad
9 commission, an injection well for brine mining of brine extracted
10 by the solution of a subsurface salt formation is designated as a
11 Class III well under the underground injection control program
12 administered by the railroad commission.

13 (f) For purposes of regulation by the railroad commission, a
14 Class V brine injection well is designated as a Class V well under
15 the underground injection control program administered by the
16 railroad commission.

17 (g) If rules or regulations adopted to govern Class V brine
18 injection wells under the federal Safe Drinking Water Act (42
19 U.S.C. Section 300f et seq.) or another federal statute allow this
20 state to seek primary enforcement authority under the underground
21 injection control program, the railroad commission shall seek
22 primacy to administer and enforce the program for Class V brine
23 injection wells in this state.

24 (h) On delegation to the railroad commission of primary
25 enforcement authority in this state over Class V brine injection
26 wells, a person may not begin to drill a Class V brine injection
27 well unless that person has a valid permit for the well issued by

1 the railroad commission under this chapter.

2 ~~[(e) This section takes effect September 1, 1985.]~~

3 ~~[(f) This section does not invalidate any permit for an~~
4 ~~injection well used for brine mining that was issued by the Texas~~
5 ~~Water Commission before the effective date of this section. Within~~
6 ~~90 days after the effective date of this section, the Railroad~~
7 ~~Commission of Texas shall issue a substitute permit under the name~~
8 ~~and authority of the railroad commission to each person who on the~~
9 ~~effective date of this section holds a valid permit issued by the~~
10 ~~Texas Water Commission for an injection well used for brine mining.~~

11 ~~[(g) Application for injection well permits covering brine~~
12 ~~mining submitted to the Texas Water Commission before the effective~~
13 ~~date of this section for which permits have not been issued by the~~
14 ~~commission shall be transmitted to the railroad commission.]~~

15 SECTION 2. Section 27.036, Water Code, as added by Chapter
16 795 (S.B. 249), Acts of the 69th Legislature, Regular Session,
17 1985, is repealed.

18 SECTION 3. This Act takes effect immediately if it receives
19 a vote of two-thirds of all the members elected to each house, as
20 provided by Section 39, Article III, Texas Constitution. If this
21 Act does not receive the vote necessary for immediate effect, this
22 Act takes effect September 1, 2023.

President of the Senate

Speaker of the House

I hereby certify that S.B. No. 1186 passed the Senate on April 20, 2023, by the following vote: Yeas 29, Nays 2.

Secretary of the Senate

I hereby certify that S.B. No. 1186 passed the House on May 12, 2023, by the following vote: Yeas 136, Nays 4, two present not voting.

Chief Clerk of the House

Approved:

Date

Governor

The Texas Commission on Environmental Quality (TCEQ, agency, or commission) proposes amendments to §331.11 and §331.132.

Background and Summary of the Factual Basis for the Proposed Rules

This proposed rulemaking implements Senate Bill (SB) 786 and SB 1186, 88th Texas Legislature, 2023, addressing agency jurisdiction over regulation of closed-loop geothermal injection wells and agency jurisdiction over brine injection wells in Texas. SB 786 confers the Railroad Commission of Texas (RRC) with jurisdiction over the regulation of closed-loop geothermal injection wells. SB 1186 confers the RRC with jurisdiction over the regulation of brine mining and the injection wells used for brine mining.

This proposed rulemaking implements SB 786 by amending the commission’s underground injection control rules to remove requirements for the regulation of closed-loop geothermal injection wells. Prior to the enactment of SB 786, the commission’s underground injection control rules included geothermal closed-loop injection wells as a type of Class V injection well under the jurisdiction of the commission. SB 786 provides that all commission functions and activities that relate to the regulation of closed-loop geothermal injection wells are transferred to the RRC. The RRC plans to implement SB 786 through adoption of their own rules relating to Class V closed-loop geothermal injection wells.

The proposed rulemaking implements SB 1186 by amending the commission’s underground injection control rules to acknowledge that the RRC has jurisdiction over the regulation of Class V injection wells used for brine mining. SB 1186 defines “brine mining” as the “production of brine, including naturally occurring brine and brine extracted by the solution of a subsurface salt formation, for the purpose of extracting from a subsurface formation elements, salts, or

other useful substances....” SB 1186 defines a “Class V brine injection well” as a “well that injects spent, naturally occurring brine produced by a brine mining operation into the same formation from which it was withdrawn after extraction of elements, salts or other useful substances, including halogens or halogens salts.”

Section by Section Discussion

The commission proposes to amend 30 Texas Administrative Code (TAC) §331.11 by removing subsection (a)(4)(B), which states “closed loop injection wells which are closed system geothermal wells used to circulate fluids including water, water with additives, or other fluids or gases through the earth as a heat source or heat sink;” and re-lettering the remainder of the paragraph. The proposed amendment to remove §331.11(a)(4)(B) implements Texas Water Code (TWC), §27.037 as established in SB 786 by removing the inclusion of closed-loop geothermal injection wells as a type of Class V injection well for which the commission has jurisdiction.

The commission proposes to amend 30 TAC §331.11(b) to implement SB 786 and SB 1186 and provisions of TWC, Chapter 27. The commission proposes to amend §331.11(b) to identify certain types of injection wells for which the RRC has jurisdiction to regulate. Under TWC §27.011, the commission has jurisdiction over the regulation of injection wells unless the activity is subject to the jurisdiction of the RRC. The commission has jurisdiction over the Class III injection wells classified in 30 TAC §331.11(a)(2) and the Class V injection wells classified in TAC §331.11(a)(4). The RRC has jurisdiction to regulate Class II injection wells under TWC, §27.031 and §27.0511. The RRC has jurisdiction over Class III and Class V injection wells used for brine mining as established in TWC, §27.036 and SB 1186. The RRC has jurisdiction over injection wells used for in situ recovery of tar sands as established in TWC, §27.035. The RRC has jurisdiction over injection wells used for the exploration, development or production of

geothermal energy, including closed-loop geothermal injection wells as established in Texas Natural Resources Code Chapter 141, TWC, §27.037, and SB 786. The RRC has jurisdiction over the injection and geologic storage of carbon dioxide as established in TWC, §27.041.

The commission proposes to amend 30 TAC §331.132(d)(3) by correcting a typographical error, changing “...close loop...” to “...closed loop....” References to closed-loop injection wells in §331.132 would apply to other types of closed-loop injection systems but not closed-loop geothermal injection wells regulated by the RRC.

Fiscal Note: Costs to State and Local Government

Kyle Girten, Analyst in the Budget and Planning Division, has determined that for the first five-year period the proposed rules are in effect, no significant fiscal implications are anticipated for the agency or for other units of state or local government as a result of administration or enforcement of the proposed rule. Programs described in this rulemaking that are transferring from TCEQ to RRC have heretofore been implemented with minimal resources at TCEQ.

Public Benefits and Costs

Mr. Girten determined that for each year of the first five years the proposed rules are in effect, the public benefit will be compliance with state law, specifically SB 786 and SB 1186 from the 88th Regular Legislative Session (2023). Moving the regulatory authority over closed-loop geothermal injection wells from TCEQ to RRC would result in efficiencies for producers of geothermal energy because the jurisdiction would be moved solely under the regulatory authority of RRC. Similarly, the rulemaking would move the regulation of in situ brine mining solely under the authority of RRC, and this would result in a more streamlined and efficient permitting process for the regulated community. The proposed rulemaking is not anticipated to

result in fiscal implications for individuals.

Local Employment Impact Statement

The commission reviewed this proposed rulemaking and determined that a Local Employment Impact Statement is not required because the proposed rulemaking does not adversely affect a local economy in a material way for the first five years that the proposed rule is in effect.

Rural Communities Impact Assessment

The commission reviewed this proposed rulemaking and determined that the proposed rulemaking does not adversely affect rural communities in a material way for the first five years that the proposed rules are in effect. The amendments would apply statewide and have the same effect in rural communities as in urban communities.

Small Business and Micro-Business Assessment

No adverse fiscal implications are anticipated for small or micro-businesses due to the implementation or administration of the proposed rule for the first five-year period the proposed rules are in effect.

Small Business Regulatory Flexibility Analysis

The commission reviewed this proposed rulemaking and determined that a Small Business Regulatory Flexibility Analysis is not required because the proposed rule does not adversely affect a small or micro-business in a material way for the first five years the proposed rules are in effect.

Government Growth Impact Statement

The commission prepared a Government Growth Impact Statement assessment for this proposed rulemaking. The proposed rulemaking transfers government programs from TCEQ to RRC. It will not require an increase or decrease in future legislative appropriations to the agency. The proposed rulemaking does not require the creation of new employee positions, eliminate current employee positions, nor require an increase or decrease in fees paid to the agency. The proposed rulemaking amends an existing regulation, and it does not create, expand, repeal, or limit this regulation. The proposed rulemaking does not increase or decrease the number of individuals subject to its applicability. During the first five years, the proposed rule should not impact positively or negatively the state's economy.

Draft Regulatory Impact Analysis Determination

The commission reviewed the proposed rulemaking action in light of the regulatory analysis requirements of Texas Government Code, §2001.0225, and determined that the action is not subject to Texas Government Code, §2001.0225 because it does not meet the definition of a "Major environmental rule" as defined in that statute. A "Major environmental rule" is a rule the specific intent of which is to protect the environment or reduce risks to human health from environmental exposure, and that may adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, or the public health and safety of the state or a sector of the state. The proposed amendments implement state legislation that confers RRC with jurisdiction over certain types of injection wells and activities. The proposed rules remove commission requirements for the regulation of closed-loop geothermal injection wells and recognizes the RRC as the regulatory agency for the regulation of closed-loop geothermal injection wells and Class V brining mining injection wells. The proposed rules are not specifically intended to protect the environment or reduce risks to

human health from environmental exposure, nor does it affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, or the public health and safety of the state or a sector of the state.

As defined in the Texas Government Code, §2001.0225 only applies to a major environmental rule, the result of which is to: exceed a standard set by federal law, unless the rule is specifically required by state law; exceed an express requirement of state law, unless the rule is specifically required by federal law; exceed a requirement of a delegation agreement or contract between the state and an agency or representative of the federal government to implement a state and federal program; or adopt a rule solely under the general authority of the commission. The proposed amendments do not exceed an express requirement of state law or a requirement of a delegation agreement. These rules were not developed solely under the general powers of the agency but are authorized by specific sections of the Texas Government Code and the Texas Water Code that are cited in the statutory authority section of this preamble. Therefore, this rulemaking is not subject to the regulatory analysis provisions of Texas Government Code, §2001.0225(b).

The commission invites public comment regarding the Draft Regulatory Impact Analysis Determination during the public comment period. Written comments on the Draft Regulatory Impact Analysis Determination may be submitted to the contact person at the address listed under the Submittal of Comments section of this preamble.

Takings Impact Assessment

The commission evaluated the proposed rulemaking and performed an analysis of whether Texas Government Code, Chapter 2007, is applicable. The proposed amendments in Chapter

331 do not affect private property in a manner that restricts or limits an owner's right to the property that would otherwise exist in the absence of a governmental action. The proposed amendments to Chapter 331 remove requirements for closed-loop geothermal injection wells and recognize RRC jurisdiction over certain injection well activities. Consequently, this rulemaking action does not meet the definition of a taking under Texas Government Code, §2007.002(5). The proposed rule amendment does not directly prevent a nuisance or prevent an immediate threat to life or property. Therefore, this rulemaking action would not constitute a taking under Texas Government Code, Chapter 2007.

Consistency with the Coastal Management Program

The commission reviewed the proposed rules and found they are neither identified in Coastal Coordination Act Implementation Rules, 31 TAC §29.11(b)(2) or (4), nor would they affect any action/authorization identified in Coastal Coordination Act Implementation Rules, 31 TAC §29.11(a)(6). Therefore, the proposed rules are not subject to the Texas Coastal Management Program.

Written comments on the consistency of this rulemaking may be submitted to the contact person at the address listed under the Submittal of Comments section of this preamble.

Announcement of Hearing

The commission will hold a hybrid virtual and in-person public hearing on this proposal in Austin on August 29, 2024 at 10:00 AM in Building F, room 2210 at the commission's central office located at 12100 Park 35 Circle. The hearing is structured for the receipt of oral or written comments by interested persons. Individuals may present oral statements when called upon in order of registration. Open discussion will not be permitted during the hearing;

however, commission staff members will be available to discuss the proposal 30 minutes prior to the hearing at 9:30 AM.

Individuals who plan to attend the hearing virtually and want to provide oral comments and/or want their attendance on record must register by Tuesday, August 27, 2024. To register for the hearing, please email Rules@tceq.texas.gov and provide the following information: your name, your affiliation, your email address, your phone number, and whether or not you plan to provide oral comments during the hearing. Instructions for participating in the hearing will be sent on Wednesday, August 28, 2024, to those who register for the hearing.

For the public who do not wish to provide oral comments but would like to view the hearing may do so at no cost at:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MzEyYjA0ZDYtNDBjNC00MTEyLWIxMDctZGZiYzZiZGJiYTI%40thread.v2/0?context=%7b%22Tid%22%3a%22871a83a4-a1ce-4b7a-8156-3bcd93a08fba%22%2c%22Oid%22%3a%22e74a40ea-69d4-469d-a8ef-06f2c9ac2a80%22%7d

Persons who have special communication or other accommodation needs who are planning to attend the hearing should contact Sandy Wong, Office of Legal Services at (512) 239-1802 or 1-800-RELAY-TX (TDD). Requests should be made as far in advance as possible.

Submittal of Comments

Written comments may be submitted to Gwen Ricco, MC 205, Office of Legal Services, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087, or faxed to fax4808@tceq.texas.gov. Electronic comments may be submitted at:

<https://tceq.commentinput.com/comment/search>. File size restrictions may apply to comments being submitted via the TCEQ Public Comments system. All comments should reference Rule Project Number 2024-020-331-WS. The comment period closes on September 3, 2024. Please choose one of the methods provided to submit your written comments.

Copies of the proposed rulemaking can be obtained from the commission's website at https://www.tceq.texas.gov/rules/propose_adopt.html. For further information, please contact Dan Hannah, Radioactive Materials Division, Underground Injection Control Permits Section at 512-239-2161.

SUCHAPTER A: GENERAL PROVISIONS

§331.11

Statutory Authority

The amendments are proposed under Texas Water Code (TWC), Chapter 5, §5.013, which establishes the general jurisdiction of the commission; §5.102, which provides the commission with the authority to carry out its duties and general powers under its jurisdictional authority as provided by TWC; §5.103, which requires the commission to adopt any rule necessary to carry out its powers and duties under the TWC and other laws of the state; and §27.019, which authorizes the commission to adopt rules for the performance of its powers, duties, and functions under the Injection Well Act.

The proposed rules implement Senate Bill (SB) 786 and SB 1186, 88th Texas Legislature, 2023; TWC, §§27.011; 27.031; 27.035; 27.036; 27.037; 27.041; and 27.0511.

§331.11. Classification of Injection Wells.

(a) Injection wells within the jurisdiction of the commission are classified as follows.

(1) Class I:

(A) wells used by generators of hazardous wastes or owners or operators of hazardous waste management facilities to inject hazardous waste, other than Class IV wells;

(B) other industrial and municipal waste disposal wells which inject fluids beneath the lower-most formation which within 1/4 mile of the wellbore contains an underground source of drinking water (USDW); and

(C) radioactive waste disposal wells which inject fluids below the lower-most formation containing a USDW within 1/4 mile of the wellbore.

(2) Class III. Wells which are used for the extraction of minerals, including:

(A) mining of sulfur by the Frasch process; and

(B) solution mining of minerals which includes sodium sulfate, sulfur, potash, phosphate, copper, uranium and any other minerals which can be mined by this process.

(3) Class IV. Wells used by generators of hazardous wastes or of radioactive wastes, by owners or operators of hazardous waste management facilities, or by owners or operators of radioactive waste disposal sites to dispose of hazardous wastes or radioactive wastes into or above a formation which within 1/4 mile of the wellbore contains a USDW.

(4) Class V. Class V wells are injection wells not included in Classes I, II, III, or IV. Generally, wells covered by this paragraph inject nonhazardous fluids into or above formations that contain USDWs. Except for Class V wells within the jurisdiction of the Railroad Commission of Texas, all Class V injection wells are within the jurisdiction of the commission and include, but are not limited to:

(A) air conditioning return flow wells used to return to the supply aquifer the water used for heating or cooling in a heat pump;

[(B)] (B) closed loop injection wells which are closed system geothermal wells used to circulate fluids including water, water with additives, or other fluids or gases through the earth as a heat source or heat sink;]

[(C)] (B) large capacity cesspools or other devices that receive greater than 5,000 gallons of waste per day, which have an open bottom and sometimes have perforated sides;

[(D)] (C) cooling water return flow wells used to inject water previously used for cooling;

[(E)] (D) drainage wells used to drain surface fluid, primarily storm runoff, into a subsurface formation;

[(F)] (E) drywells used for the injection of wastes into a subsurface formation;

[(G)] (F) recharge wells used to replenish the water in an aquifer;

[(H)] (G) salt water intrusion barrier wells used to inject water into a freshwater aquifer to prevent the intrusion of salt water into the fresh water;

[(I)] (H) sand backfill wells used to inject a mixture of water and sand, mill tailings, or other solids into mined out portions of subsurface mines;

[(J)] (I) septic systems designed to inject greater than 5,000 gallons per day of waste or effluent;

[(K)] (I) subsidence control wells (not used for the purpose of oil or natural gas production) used to inject fluids into a non-oil or gas producing zone to reduce or eliminate subsidence associated with the overdraft of fresh water;

[(L)] (K) wells used for the injection of water for storage and subsequent retrieval for beneficial use as part of an aquifer storage and recovery project;

[(M)] (L) motor vehicle waste disposal wells which are used or have been used for the disposal of fluids from vehicular repair or maintenance activities, such as an automotive repair shop, auto body shop, car dealership, boat, motorcycle or airplane dealership, or repair facility;

[(N)] (M) improved sinkholes;

[(O)] (N) aquifer remediation wells, temporary injection points, and subsurface fluid distribution systems used to inject nonhazardous fluids into the subsurface to aid in the remediation of soil and groundwater; and

[(P)] (O) subsurface fluid distribution systems.

(b) The Railroad Commission of Texas has jurisdiction over: Class II injection wells; Class III and Class V injection wells used for brine mining; injection wells used for the in situ recovery of tar sands; injection wells used for the exploration, development or production of geothermal energy, including closed-loop geothermal injection wells; and the injection and geologic storage of carbon dioxide. [Class II wells and Class III wells used for brine mining fall within the jurisdiction of the Railroad Commission of Texas.]

(c) Baseline wells and monitor wells associated with Class III injection wells within the jurisdiction of the commission are also subject to the rules specified in this chapter.

SUBCHAPTER H: STANDARDS FOR CLASS V WELLS

§331.132

Statutory Authority

The amendments are proposed under Texas Water Code (TWC), Chapter 5, §5.013, which establishes the general jurisdiction of the commission; §5.102, which provides the commission with the authority to carry out its duties and general powers under its jurisdictional authority as provided by TWC; §5.103, which requires the commission to adopt any rule necessary to carry out its powers and duties under the TWC and other laws of the state; and §27.019, which authorizes the commission to adopt rules for the performance of its powers, duties, and functions under the Injection Well Act.

The proposed rules implement Senate Bill (SB) 786 and SB 1186, 88th Texas Legislature, 2023; and TWC, §§27.011, 27.031, 27.035, 27.036, 27.037, 27.041, and 27.0511.

§331.132. Construction Standards.

(a) **Applicability.** All Class V wells shall be completed in accordance with the specifications contained in this section, unless otherwise authorized by the executive director. Injection wells listed in Texas Occupations Code, §1901.001(8) shall be installed by a water well driller licensed by the Texas Department of Licensing and Regulation.

(b) **Reporting.**

(1) **Prior to construction.** Except for closed loop injection and air conditioning return flow wells, information required under §331.10(a) of this title (relating to Inventory or Wells Authorized by Rule) shall be submitted to the executive director for review and approval

prior to construction. For large capacity septic systems, septic systems that accept industrial waste, and subsurface fluid distribution systems including subsurface area drip dispersal systems as defined in §222.5 of this title (relating to Definitions), the information required under §331.10(a) of this title shall be submitted as part of the wastewater discharge permit application filed under Chapter 305 of this title (relating to Consolidated Permits).

(2) After completion of construction. Except for large capacity septic systems, subsurface fluid distribution systems, temporary injection points, closed loop injection wells, improved sinkholes, and air conditioning return flow wells, the Texas Department of Licensing and Regulation state well report form shall be submitted to the executive director within 30 days from the date the well construction is completed.

(3) Closed loop and air conditioning return flow wells. No reporting prior to construction is necessary for these two types of wells. The Texas Department of Licensing and Regulation state well report form shall be completed and submitted to the executive director within 30 days from the date the well construction is completed. Any additives, constituents, or fluids (other than potable water) that are used in the closed loop injection well system shall be reported in the Water Quality Section on the state well report form.

(4) Temporary injection points. Temporary injection points shall be completed in such a manner as to prevent movement of surface water or undesirable groundwater into underground sources of drinking water.

(5) Large capacity septic systems, subsurface fluid distribution systems, and improved sinkholes. The owner or operator of large capacity septic systems, subsurface fluid

distribution systems, and improved sinkholes must submit the well report form provided by the executive director within 30 days from the date well construction is completed.

(c) Sealing of casing.

(1) General. Except for closed loop injection wells, the annular space between the borehole and the casing shall be filled with cement slurry from ground level to a depth of not less than ten feet below the land surface or well head. In areas of shallow, unconfined groundwater aquifers, the cement need not be placed below the static water level. In areas of shallow, confined groundwater aquifers having artesian head, the cement need not be placed below the top of the water-bearing strata.

(2) Closed loop injection well. The annular space of a closed loop injection well shall be backfilled to the total depth with impervious bentonite or a similar material. Where no groundwater or only one zone of groundwater is encountered, sand, gravel, or drill cuttings may be used to backfill up to 30 feet from the surface. The top 30 feet shall be filled with impervious bentonite. Alternative impervious materials may be authorized by the executive director upon request.

(d) Surface completion.

(1) With the exception of temporary injection points, subsurface fluid distribution systems, improved sinkholes, and large capacity septic systems, all wells must have a concrete slab or sealing block placed above the cement slurry around the well at the ground surface.

(A) The slab or block shall extend at least two feet from the well in all directions and have a minimum thickness of four inches and shall be separated from the well casing by a plastic or mastic coating or sleeve to prevent bonding of the slab to the casing.

(B) The surface of the slab shall be sloped so that liquid will drain away from the well.

(2) For wells that use casing, the top of the casing shall extend a minimum of 12 inches above the original ground surface. The well casing shall be capped or completed in a manner that will prevent pollutants from entering the well.

(3) Closed loop injection wells which are completed below grade are exempt from the surface completion standards in this subsection. Pitless adapters may be used in closed loop wells provided that:

(A) the adapter is welded to the casing or fitted with another suitably effective seal; and

(B) the annular space between the borehole and the casing is filled with cement to a depth not less than 15 feet below the adapter connection.

(4) Temporary injection points shall be completed in such a manner as to prevent the movement of surface water or undesirable groundwater into underground sources of drinking water.

(e) Optional use of a steel or polyvinyl chloride (PVC) sleeve. If the use of a steel or PVC sleeve is necessary to prevent possible damage to the casing, the steel sleeve shall be a minimum of 3/16 inches in thickness or the PVC sleeve shall be a minimum of Schedule 80 sun-resistant and 24 inches in length, and shall extend 12 inches into the cement slurry.

(f) Well placement in a flood-prone area. All wells shall be located in areas not generally subject to flooding. If a well must be placed in a flood-prone area, it shall be completed with a watertight sanitary well seal to maintain a junction between the casing and injection tubing, and a steel sleeve extending a minimum of 36 inches above ground level and 24 inches below the ground surface shall be used. For the purpose of this subsection, a flood-prone area is defined as that area within the 100-year flood plain as determined on the Federal Emergency Management Agency (FEMA) Flood Hazard Maps for the National Flood Insurance Program. If FEMA has conducted a flood insurance study of the area, and has mapped the 50-year flood plain, then the smaller geographic areas within the 50-year boundary are considered to be flood-prone. Closed loop injection wells, improved sinkholes, and air conditioning return flow wells are exempt from the completion standards in this subsection.

(g) Other protection measures.

(1) Commingling prohibited. All wells, especially those that are gravel packed, shall be completed so that aquifers or zones containing waters that are known to differ significantly in chemical quality are not allowed to commingle through the borehole-casing annulus or the gravel pack and cause quality degradation of any aquifer containing fresh water.

(2) Undesirable groundwater. When undesirable groundwater, which is water that is injurious to human health and the environment or water that can cause pollution to land or other waters, is encountered in a Class V well, the well shall be constructed so that the undesirable groundwater is isolated from any underground source of drinking water and is confined to the zone(s) of origin.

(h) Sampling. For a Class V injection well, any required sampling shall be done at the point of injection, or as specified in a permit issued by the executive director.