

Brad Little *Governor*

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Chairman St. Anthony At Large

Jo Ann Cole-Hansen

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Hope District 1

Albert Barker

Boise District 2

Brian Olmstead

Twin Falls At Large

Marcus Gibbs

Grace District 4

Patrick McMahon

Sun Valley At Large

AGENDA

IDAHO WATER RESOURCE BOARD

Special Board Meeting No. 6-23 Wednesday, August 16, 2023 1:00 PM (MT) / Noon (PT)

Water Center
Conference Rooms 602 C & D / Zoom Online
322 E. Front St.
BOISE

Board Members & the Public may participate via Zoom

Click here to join our Zoom Meeting
Dial in Option: 1(253) 215-8782
Meeting ID: 891 6724 5253 Passcode: 290694

- 1. Roll Call
- 2. Executive Session: Board will meet pursuant to Idaho Code § 74-206(1) subsection (f) to communicate with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated. Topics: Priest Lake Dam Modification Project Litigation. Closed to the public; no actions taken during executive session.
- 3. Priest Lake Dam Modification Project*
- 4. UIC Rule-Making*
- 5. Non-Action Items for Discussion
- 6. Next Meeting & Adjourn

^{*} Action Item: A vote regarding this item may be made at this meeting. Identifying an item as an action item on the agenda does not require a vote to be taken on the item. Americans with Disabilities: If you require special accommodations to attend, participate in, or understand the meeting, please make advance arrangements by contacting Department staff by email jennifer.strange@idwr.idaho.gov or by phone at (208) 287-4800.

Memorandum

To: Idaho Water Resource Board

From: Mike Morrison

Date: August 14, 2023

Re: Priest Lake Outlet Dam Improvements Project: Request for approval of funds to complete

construction during the 2023-2024 construction season.

REQUIRED ACTION: The Board will consider approval of a resolution to fund the costs of completing construction of the Priest Lake Outlet Dam Improvements Project.

<u>Background:</u> In August 2020 the Board approved expenditure of \$5,000,000 for the Priest Lake Outlet Dam Improvements Project (Project) and for the Priest Lake Thorofare Improvements Project. The Priest Lake Thorofare Improvements Project was completed satisfactorily in 2021 at a cost of \$2,111,787.81.

The Board approved an additional \$450,000 for work not contemplated in the original contract (Change Order No. 3) in October, 2021.

Strider Construction, Inc. of Bellingham Washington (Strider) was unable to complete work on the dam during the winter 2020-2021 construction season and the Board approved extension of work into a second winter construction season (2021-2022). Strider was unable to complete work in the second season, and in July 2022 notified the Board that it was terminating work without completing the Project.

Since then, the Board pre-qualified two contractors and received bids from both contractors on July 24th, 2023. Northbank Civil and Marine, LLC's bid of \$4,355,000.00 was the lowest bid.

Northbank Civil and Marine, LLC will complete work not completed by the previous contractor, including replacement of 11 Tainter gate J-Seals, extension of a portion of the concrete apron below the dam, placement of additional armor stone beneath the dam, and various minor improvements and repairs. This work will be completed during Season 3 (Winter 2023-2024).

At its July 2023 Board meeting, the Board approved expenditure of \$500,000 to cover engineering and construction management services from Mott MacDonald, Inc. through the end of construction (Board Resolution 24-2023).

<u>Board Resolution:</u> Staff requests that the Board consider approval of the attached resolution authorizing expenditure of up to \$4,500,000 from Water Management Account to defray the costs of construction.



Milestones and Tentative Timeline

- July 24, 2023: Deadline for construction contractors to submit bids.
- Sept 2023: Contractor begins work.
- November 1, 2023: In-Water Work begins.
- April 2024: Outlet Dam Modifications complete.

Attachment(s)

• Resolution to authorize expenditure of up to \$4,500,000 from the Water Management Account.

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE PRIEST LAKE OUTLET DAM IMPROVEMENTS PROJECT

Resolution No. _____

RESOLUTION TO FUND COSTS TO COMPLETE CONSTRUCTION OF THE PRIEST LAKE OUTLET DAM IMPROVEMENTS PROJECT

1 2 3 4	WHEREAS, since August 2020, the Idaho Water Resc committed approximately \$3.1 million for engineering and o Dam Improvements Project (Project); and	·			
5 6	WHEREAS, construction was performed during the value of t	winter months of 2020-2021 and 2021-2022			
7					
8	WHEREAS, in July 2022 the construction contractor	notified the Board that it was terminating			
9 10	work without completing the Project; and				
11	WHEREAS, on July 24, 2023 the Board received bids	from two pre-qualified contractors to			
12 13	complete the Project during the winter months of 2023-202	· ·			
14	WHEREAS, the lowest responsive bid was submitted	by Northbank Civil and Marine. Inc. of			
15	Vancouver Washington for \$4,355,000.00; and				
16	NOW, THEREFORE BE IT DECOLVED that the IMARD of	who wise the companditure of fixed and to			
17 18	NOW, THEREFORE, BE IT RESOLVED that the IWRB a exceed \$4,500,000.00 from the Water Management Account	·			
19	establish a small contingency fund.	it to cover the costs of construction and to			
1)	establish a shall contingency rana.				
	DATED this 16 th day of August 2023				
	and any an inguity and				
	Left	f Raybould, Chairman			
		ho Water Resource Board			
	lua	no water nesource board			
	ATTEST				
	Dean Stevenson, Secretary				



Injection of Recycled Municipal and Industrial Wastewater -- UIC Rulemaking

August 16, 2023

Erik Boe, P.E. Manager, GWP Section





Background

Interest in injecting recycled municipal and industrial wastewater into Idaho's USDW aquifers has developed and is increasing.

- Increasing federal regulations (NPDES) and growing populations
 - Additional options in leu of land application, rapid infiltration, discharge to rivers, etc.
- 2. Declining water supplies
 - Recharge for declining aquifers
 - Water right mitigation



Current Regulations

- IDAPA 37.03.03 establishes minimum standards and criteria for the injection of fluids into Class V injection wells (primacy program)
 - Intent is to protect Idaho's valuable groundwater resources
 - USDW aquifers provide >92% of the State's potable drinking water supply



Current Regulations

- IDAPA 58.01.08 regulates public drinking water systems
 - Based on 40 CFR Part 141 and Part 143 (EPA Drinking Water Standards, Rules)
 - Intent is to ensure Idaho's PWSs provide safe potable drinking water, free of contaminants
- IDAPA 58.01.17 regulates recycled water
 - Intent is to ensure recycled municipal and industrial wastewater is treated and applied in a manner that doesn't impact USDWs
 - Generally limited to: Land application, rapid infiltration basins, and discharge to rivers (<u>substantial environmental buffers</u>)



Questions

- 1. What are the implications of injecting treated municipal and industrial wastewater into Idaho's aquifers?
 - Injectate is from an atypical source of water
 - Likely contains contaminants listed in EPA DWSs (~90)
 - Likely contains non-regulated contaminants of emerging concern (CECs) not observed in natural sources of water
 - Limited environmental buffer
 - Implications for shallow and deep injection wells are different
- 2. When processing applications, how do we ensure Idaho's USDWs are adequately protected from contamination?



Standards of Quality for Potable Drinking water

- EPA Drinking Water Standards (~90)
- Primary DWSs based on what are known or anticipated to occur in PWSs
- Developed for a typical relatively uncontaminated natural source of freshwater (groundwater, rivers, reservoirs...)

<u>Criteria:</u> "whether a contaminant is found or substantially likely to be found in public water systems with a frequency and at levels of concern"



Contaminants of Emerging Concern (CEC)

Atypical sources of water such as municipal or industrial wastewater can contain any number of 1,000s of CECs not present in natural sources

- Examples include:
 - Proprietary industrial chemicals
 - Unidentified halogenated compounds
 - Pharmaceuticals
 - Synthetic hormones
 - Certain pathogens
- Difficult to regulate
 - What analytes to focus on? What concentrations are harmful?



National Regulations for Reuse?

EPA is taking hands off approach and encouraging states to develop appropriate regulation for:

- Indirect Potable Reuse (IPR) which introduces "purified" recycled water into an environmental buffer (e.g., a groundwater aquifer or a surface water reservoir, lake, or river) before the blended water is introduced into a water supply system
- <u>Direct Potable Reuse</u> (DPR) which introduces "purified" recycled water directly into an existing water supply system
- Potable Reuse Compendium (2017)



RECYCLED COMMUNITY WASTEWATER

The water purification process

Using a multi-barrier purification process, we can transform recycled water into PURE water – A Proven Technology.

The result is a Safe, Reliable and Sustainable water supply.



ULTRAFILTRATION

Removes:

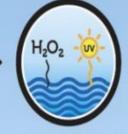
Suspended solids. Bacteria. Protozoa. Cryptosporidium. Giardia.



REVERSE OSMOSIS

Removes:

Organics.
Pharmaceuticals.
Personal Care Products.
Inorganics.
Heavy metals.
Viruses.



UV/ ADVANCED OXIDATION

Destroys:

Pathogens. Trace organics.



GRANULAR ACTIVATED CARBON

Removes:

Trace organics.
Disinfection byproducts.
Remaining hydrogen
peroxide.



CHLORINE DISINFECTION

Destroys:

Pathogens. Viruses.



PURE Water

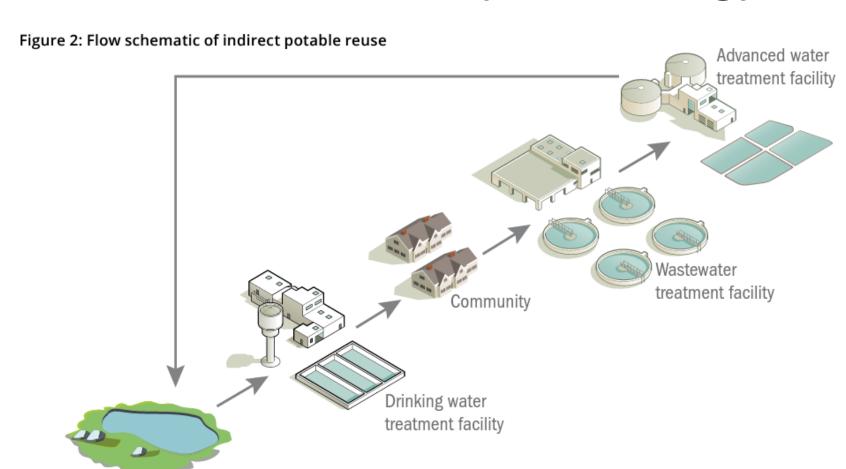


Beer!





Indirect Potable Reuse (AWWA.org)

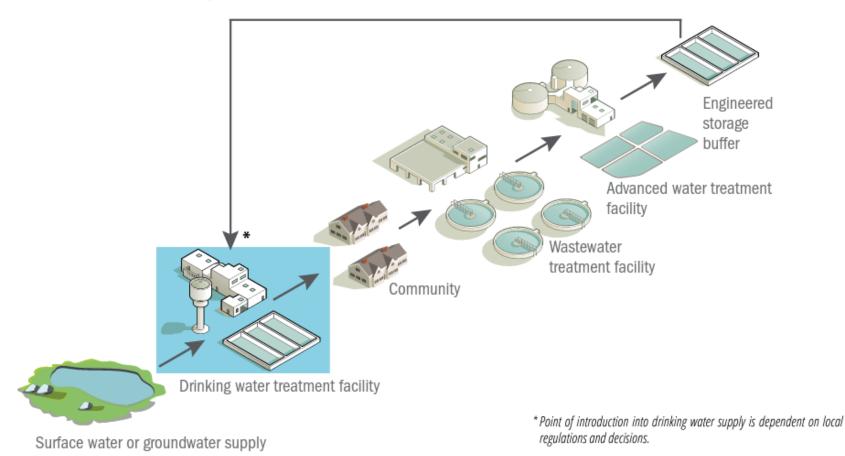


Surface water or groundwater supply



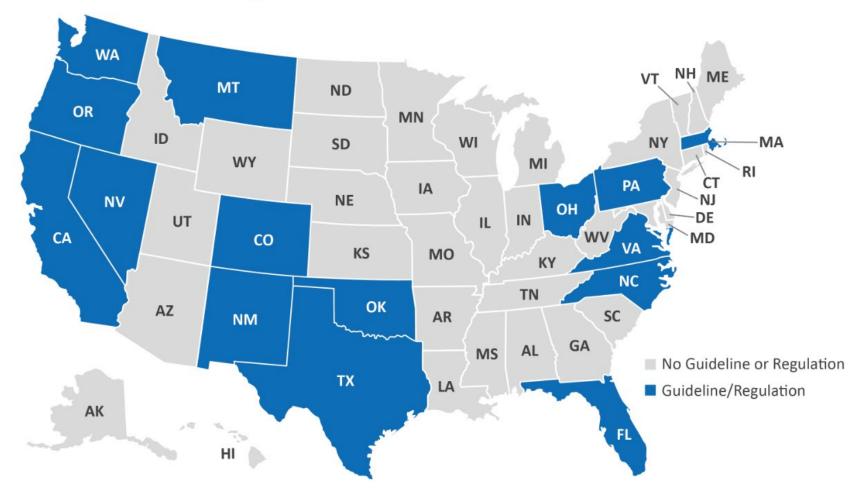
Direct Potable Reuse (AWWA.org)

Figure 3: Flow schematic of direct potable reuse





States with Potable Water Reuse Regulations or Guidelines





Current UIC Rules (IDAPA 37.03.03)

- No specific rule addresses the injection of recycled municipal or industrial wastewater
- Rules broadly authorizes the Director to protect ground water resources from contamination
 - (IDAPA 37.0303.040.02.b,c)
- IDAPA 37.03.03.070.05.c.(i)(6) states "At no time shall any fluid containing or suspected of containing fecal contaminants of human origin be injected into any Class V injection well authorized under these rules."



IDAPA 37.03.03.010: Added definitions for Industrial Wastewater, Municipal Wastewater, Recycled Water, and Wastewater



IDAPA 37.03.03.035: Added permit requirements for both shallow and deep injection wells. Noted DEQ requirements.

- a01. Permit Required for Class V Deep Injection Wells. No person shall construct, modify, maintain, or use a Class V deep injection well unless a permit has been issued by the Director. An application for permit shall be completed and filed with the director on a form approved by the department accompanied by a filing fee as specified in Section 42-3905(1), Idaho Code. Applications proposing to inject recycled municipal wastewater or recycled industrial wastewater must also adhere to IDAPA 58.01.17 (Recycled Water Rules) permitting requirements.
- Permit Requirements for Class V Shallow Injection Wells. No person shall construct, modify, maintain, or use a Class V shallow injection well to inject recycled municipal wastewater or recycled industrial wastewater unless a permit has been issued by the Director. An application for permit shall be completed and filed with the director on a form approved by the department accompanied by a filing fee as specified in Section 42-3905(1), Idaho Code. An application for permit may be required for the construction, modification, or use of all other shallow injection wells if the Director determines that the injection could result in unreasonable contamination of a USDW or cause a violation of water quality standards that would affect a beneficial use. Applications proposing to inject recycled municipal wastewater or recycled industrial wastewater must also adhere to IDAPA 58.01.17 (Recycled Water Rules) permitting requirements.



IDAPA 37.03.03.070.05.c.(i)(6)37 IDAPA 37.03.03.055.04.f

At no time shall any untreated fluid containing or suspected of containing fecal contaminants of human origin be injected into any Class V injection well authorized under these rules. Irrigation practices using Subsurface fluid distribution systems that apply or discharge recycled water limited to saturation of discharged into to the root-zone and regulated by IDEQ under IDAPA 58.01.17 (Recycled Water Rules) are exempt from this rule.



IDAPA 37.03.03.055.06: Added rule regulating standards of quality for the injectate for both shallow and deep

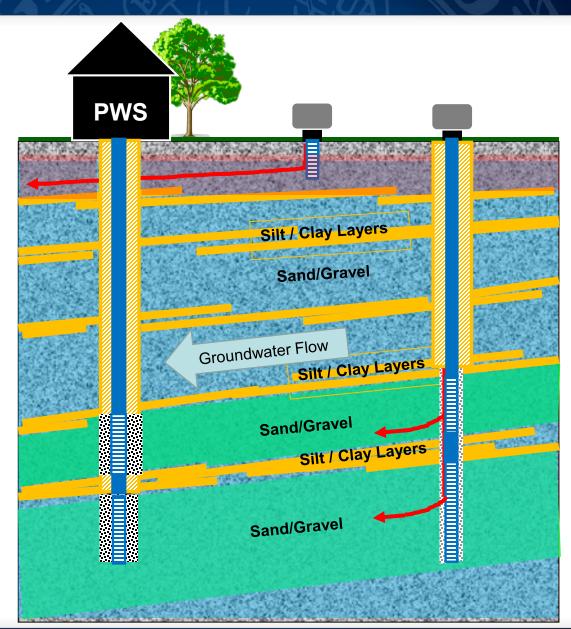
- Focused on not degrading USDW aquifers
- 06. Injectate Standards for the Quality of Recycled Municipal Wastewater or Recycled Industrial Wastewater.
- a. Shallow Injection Wells. Recycled municipal wastewater or recycled industrial wastewater shall meet or exceed ground water quality standards (IDAPA 58.01.11) and comply with IDAPA 58.01.17 (Recycled Water Rules) prior to injecting into a shallow injection well.
- b. **Deep Injection Wells.** Recycled municipal wastewater or recycled industrial wastewater shall meet or exceed ground water quality standards (IDAPA 58.01.11) and comply with IDAPA 58.01.17 (Recycled Water Rules) prior to injecting into a deep injection well. Additionally, the concentration of each contaminant in the injected fluids shall not exceed the background concentration of each contaminant in the receiving water that is likely to reach a USDW. The background concentration of any applicable contaminant shall be determined by a statistical analysis consisting of a type and method approved by the Department.



IDAPA 37.03.03.055.06

How do <u>shallow</u> and <u>deep</u> injection wells differ?

 Environmental buffers are significantly different





Next Steps

8/17/2023: Meeting with DEQ Executive Team to discuss the

issue, review our draft rules, and develop a strategy

8/18/2023: Internal meeting to discuss status of UIC draft rule.

Determine timeline.



Questions?

Erik Boe, Section Manager, Ground Water Protection Idaho Department of Water Resources erik.boe@idwr.Idaho.gov

208-287-4935

DRAFT

37.03.03 – RULES AND MINIMUM STANDARDS FOR THE CONSTRUCTION AND USE OF INJECTION WELLS

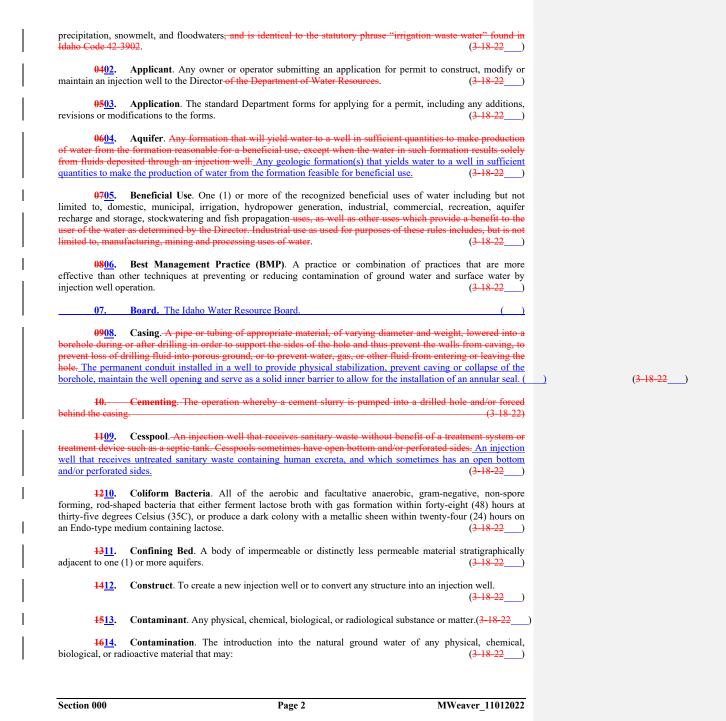
	LEGAL AUTHORITY. pter is adopted under the legal authority of Sections 42-3903A, and 42-3913, 42-3914, and through 42- ho Code. (3-18-22)
001.	FITLE AND SCOPE.
,	11. Title. These rules are titled IDAPA 37.03.03 "Rules and Minimum Standards for the Construction of Injection Wells." (3-18-22)
abandonn injection 035.01). T wells are wells app and const	22. Scope. These rules and establish minimum standards are and criteria for construction and the construction and the construction and the construction and use of single construction wells in the state of Idaho, except Indian lands, and the construction and use of Class I, III, IV, or VI injection wells are prohibited by these rules. Class IV also prohibited by federal law. These rules and minimum standards for construction and use of injection by the construction wells in the state of Idaho, except in Indian lands. All injection wells shall be permitted in accordance with the "Well Construction Standards Rules" found in IDAPA 37.03.09 which are dunder Section 42-238, Idaho Code.
requireme	Rule Coverage . In the event that a portion of these rules is less stringent than the minimum ents for injection wells as established by Federal regulations (40 CFR Parts 141, 144, 145, and 146), the e Federal requirement will be used to regulate the injection well. (3-18-22
fluids into or techno holder, or testing me	y if it is no less protective of human health and the environment, will not allow the migration of injected to a USDW, meets the intent of the rule, and yields information or data consistent with the original method logy required. A request for review by the Director must be submitted in writing by the applicant, permit operator and be included with all pertinent information necessary for the Director to evaluate the proposed without or technology. (3-18-22)
	INCORPORATION BY REFERENCE.
water qua	D1. Incorporated Document. IDAPA 37.03.03 adopts and incorporates by reference those ground litry standards found in Section 200 of IDAPA 58.01.11, "Ground Water Quality Rule," of the Department and Quality. (3-18-22)
of the Ida	Document Availability. Copies of the incorporated document may be found at the central office the Department of Water Resources, 322 East Front Street, Boise, Idaho, 83720-0098 or online through the nt or state websites. (3-18-22)
003 <u>002</u>	- 009. (RESERVED)
010. I	DEFINITIONS.
•	Ot. Abandonment. See "permanent decommission. (3-18-22)
(22. Abandoned Well. See "permanent decommission". (3-18-22)
	3301. Agricultural Runoff Waste. Excess surface water from agricultural fields generated during any all operation, including runoff of irrigation tail water, as well as natural drainage resulting from

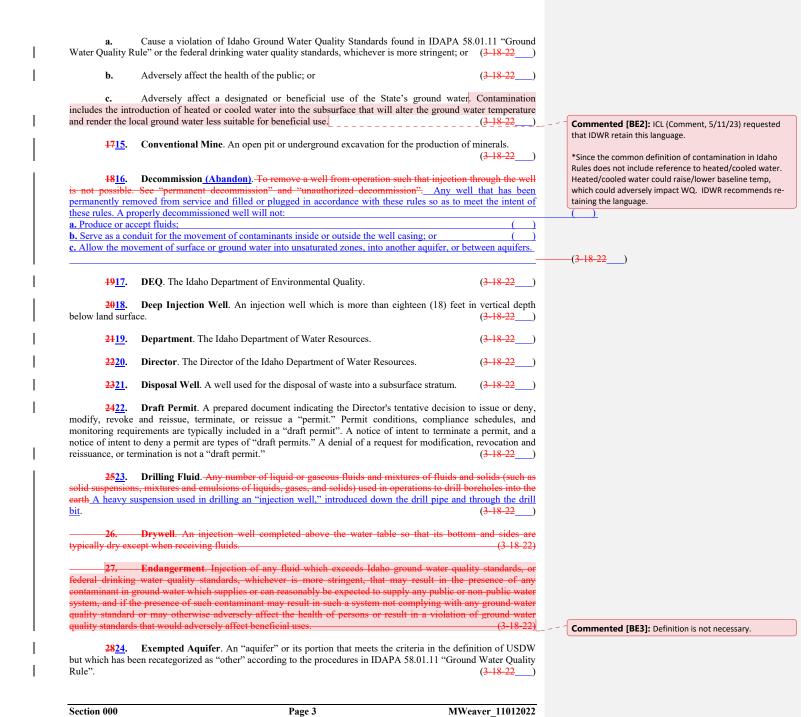
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Section 000

Commented [BE1]: Moved to Rule 25.01. Authorizations, Prohibitions, and Exemptions. Rule 25.01 applies more specifically to deep injection wells.





	ich it is being tested. $(3-18-22)$
	Facility or Activity. Any UIC "injection well," or another facility or activity that is subject to
regulation under	the UIC program. (3-18-22
32.	Fault. A surface or zone of rock fracture along which there has been displacement. (3-18-22
	Flow Rate. The volume per time unit given to the flow of gases or other fluid substance which
emerges from ar	orifice, pump, turbine or passes along a conduit or channel. (3-18-22)
34 <u>26</u> . gaseous or any o	Fluid. Any material or substance which flows or moves, whether in a semisolid, liquid, sludge ther form or state.
35.	Formation. A body of consolidated or unconsolidated rock characterized by a degree of lithologi
	iich is prevailingly, but not necessarily, tabular and is mappable on the earth's surface or traceable i (3-18-22
	Generator. Any person, by site location, whose act or process produces hazardous wasted in 40 CFR part 261. (3-18-22
37 <u>27</u> . rock or soil Wate	Ground Water. Any water that occurs beneath the surface of the earth in a saturated formation of the land surface in a zone of saturation. (3-18-22
3828. Rule," Section 2	Ground Water Quality Standards. Standards found in IDAPA 58.01.11, "Ground Water Quality 00. (3-18-22
<mark>39<u>29</u>.</mark> Hazardous Wast	Hazardous Waste. Any substance defined by IDAPA 58.01.05, "Rules and Standards fo e."
40 <u>30</u> . Country as:	Indian Lands. "Indian Country" as defined in 18 U.S.C. 1151. That section defines India (3-18-22
a. government, no reservation;	All land within the limits of any Indian reservation under the jurisdiction of the United State twithstanding the issuance of any patent, and, including rights-of-way running through the third through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and, including rights-of-way running through the issuance of any patent, and including rights-of-way running through the issuance of any patent, and including rights-of-way running through the issuance of any patent, and including rights-of-way running through the including rights-of-way running
b. original or subse	All dependent Indian communities within the borders of the United States whether within the equently acquired territory thereof, and whether within or without the limits of a State; and (3-18-22)
c. way running thro	All Indian allotments, the Indian titles to which have not been extinguished, including rights-of ough the same. (3-18-22
	Individual Subsurface Sewage Disposal System. For the purpose of these rules, any standard of

Commented [EB4]: Added definition from IDAPA 58.01.17

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4233. Improved Sinkhole. A naturally occurring karst depression or other natural crevice found in volcanic terrain and other geologic settings which that have been modified by man for the purpose of directing and

	4334.	Injection. The subsurface emplacement of fluids through an injection well.	(3-18-22
	40 <u>04</u> .	injection. The subsurface emplacement of futures alrough an injection went.	(5-10-22
the follo	44 <u>35</u> . owing cri	Injection Well . Any feature that is operated to allow injection which also meets at teria:	least one (1) of (3-18-22)
	a.	A bored, or driven shaft whose depth is greater than the largest surface dimension;	(3-18-22)
	b.	A dug hole whose depth is greater than the largest surface dimension;	(3-18-22)
	c.	An improved sinkhole; or	(3-18-22)
	d.	A subsurface fluid distribution system.	_(3-18-22
		Injection Zone. A geological "formation", or those sections of a formation r	
through	an "inje	ction well."	(3-18-22)
	46.	IWRB. Idaho Water Resource Board.	(3-18-22)
	ded to be	Large Capacity Cesspools. Any cesspool used by a multiple dwelling, communisposal of sanitary wastes (for example: a duplex or an apartment building) or any content building or any content buildin	esspool used by d, restaurant or (3–18–22)
septic ta		Large Capacity Septic System. Class V wells that are used to inject sanitary v lo not meet the criteria of an individual subsurface sewage disposal system.	
	cept or b	Maintain. To allow, either expressly or by implication, an injection well to exist in eable to accept fluids. Unless a well has been permanently decommissioned pursuarse rules it is considered to be capable of accepting fluids.	nt to the criteria
operatio	50 <u>37</u> . ons which	Modify . To alter the construction of an injection well, but does not include cleaning neither deepen nor increase the dimensions of the well.	ng or redrilling
		Motor Vehicle Waste Disposal Wells. Injection wells that receive or have receive maintenance activities, such as an auto body repair shop, automotive repair shop, not alty repair shop (transmission and muffler repair shop), or any facility that does any	ew and used car
		Municipal Wastewater. Wastewater containing sewage and associated solids, wh	
untreate	d. Munic	cipal wastewater, also known as domestic wastewater, may contain industrial wastewater	ater. ()
		New Injection Well. An "injection well" which began to be used for injection State applicable to the well is approved or prescribed.	on after a UIC (3-18-22)
progran	n for the	*	* /
1 0	53 <u>40</u> .	Open-Loop Heat Pump Return Wells. Injection wells that receive surface water of seed through a heat exchange system for cooling or heating purposes.	
1 0	53 <u>40</u> .		(3-18-22)

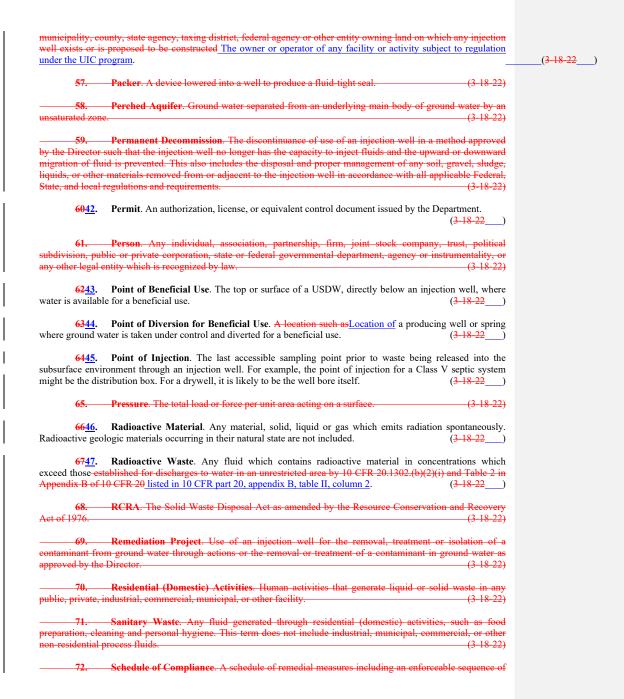
Commented [BE5]: City of Middleton (Comment, 5/1/23) requested that IDWR revise this definition to allow for drip irrigation systems.

*As a primacy program, we need to keep definition consistent with EPA definition. Added language in Rule 55.05.f. to address the City's concern.

Commented [EB6]: Added definition from IDAPA 58.01.17

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Owner or Operator. Any individual, group of individuals, partnership, company, corporation,



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Section 000

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rules.	48.	Recycled Water. Water treated by a wastewater treatment system and used acc	cording to the
	73 <u>49</u> . typica	Septic System . An injection well that is used to inject sanitary waste below the sally comprised of a septic tank and subsurface fluid distribution system or disposal system.	
	<mark>74<u>50</u>.</mark> lepth be	Shallow Injection Well . An injection well which is less than or equal to eighter elow land surface.	een (18) feet (3-18-22
		Site. The land or water area where any "facility or activity" is physically located and used in connection with the facility or activity.	d or conduct
_		State. The state of Idaho.	`
		Stratum (plural strata). A single sedimentary bed or layer, regardless of thickne same kind of rock material.	ess, that consi
of fluid p	ural cau	Subsidence . The lowering of the natural land surface in response to: Earth mover e; removal of underlying supporting material by mining or solution of solids, eith uses; compaction due to wetting (Hydrocompaction); oxidation of organic matter in surface.	er artificially
	<mark>79<u>52</u>.</mark> nechani	Subsurface Fluid Distribution System . An assemblage of perforated pipes, draisms intended to distribute fluids below the surface of the ground.	n tiles, or oth (3-18-22
	<mark>80<u>53</u>.</mark> g an "ap	UIC. The Underground Injection Control program under Part C of the Safe Drink proved State program."	king Water A (3-18-22
including the appro Director. well prev	g an "ar 81. Oval of These rents co	Unauthorized Decommission. The decommissioning of any injection well that he Department prior to decommissioning, or was not decommissioned in a method wells may have to be properly decommissioned when discovered by the Director to ommingling of aquifers or is no longer capable of injection.	nas not receive approved by ensure that (3-18-2)
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including	81. 81. These rents co 82. 8354. i. ii. (1) (2) b. 84.	Unauthorized Decommission. The decommissioning of any injection well that he the Department prior to decommissioning, or was not decommissioned in a method of wells may have to be properly decommissioned when discovered by the Director to ommingling of aquifers or is no longer capable of injection. Underground Injection. See "injection. Underground Source of Drinking Water (USDW). An aquifer or its portion: Which: Supplies any public water system; or Contains a sufficient quantity of ground water to supply a public water system; or Currently supplies drinking water for human consumption; or Contains fewer than ten thousand (10,000) mg/l total dissolved solids; and Which is not an exempted aquifer. Unreasonable Contamination. Endangerment of a USDW or the health of positions.	(3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22) (3-18-22)

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any ground water, surface water, and storm water that may be present; liquid or water that is chemically, biologically, physically or rationally identifiable as containing blackwater, gray water, or commercial or industrial pollutants; and sewage.

85.56. Water Quality Standards. Refers to those standards found in Idaho Department of Environmental Quality Rules, IDAPA 58.01.02, "Water Quality Standards" and IDAPA 58.01.11, "Ground Water Quality Rule."

Well. For the purposes of these rules, "well" means "injection well." (3-18-22) 011. -- 014. (RESERVED) 015. VIOLATIONS, FORMAL NOTIFICATION AND ENFORCEMENT. 01. Violations. It shall be a violation of these rules for any owner or operator to: Fail to comply with a permit or authorization, or terms or conditions thereof; b. Fail to comply with applicable standards for water quality; c. Fail to comply with any permit application notification or filing requirement; (3-18-22) Knowingly make any false statement, representation or certification in any application, report, document or record filed pursuant to these rules, or terms and conditions of an issued permit; e. Falsify, tamper with or knowingly render inaccurate any monitoring device or method required to be maintained or utilized by the terms and conditions of an issued permit; f. Fail to respond to any formal notification of a violation when a response is required; or (3-18-22) g. Decommission a well in an unauthorized manner. Additional. It shall be a violation of these rules for any person to construct, operate, maintain, convert, plug, decommission or conduct any other activity in a manner which results or may result in the unauthorized injection of a hazardous waste or of a radioactive waste by an injection well. 03. Formal Notification. Formal notification of violations may be communicated to the owner or operator with a letter, a notice of violation, a compliance or enforcement order or other appropriate means. (3-18-22) Enforcement. Violation of any of the provisions of the Injection Well Act (Chapter 39, Title 42, Idaho Code) or of any rule, regulation, standard or criteria pertaining to the Injection Well Act may result in the Director initiating an enforcement action as provided under Chapters 17 and 39, Title 42, Idaho Code. (3-18-22) 016. -- 019. (RESERVED) 020. HEARING BEFORE THE WATER RESOURCE BOARD. General. All hearings before the IWRB will be conducted in accordance with Chapter 52, Title 67, Idaho Code, at a place convenient to the owner and/or operator. For purposes of such hearings, the IWRB or its designated hearing officer shall have power to administer oaths, examine witnesses, and issue in the name of the said Board subpoenas requiring testimony of witnesses and the production of evidence relevant to any matter in the hearing. Judicial review of the final determination by the IWRB may be secured by the owner by filing a petition for review as prescribed by Chapter 52, Title 67, Idaho Code, in the District Court of the county where the injection well is situated or proposed to be located. The petition for review shall be served upon the Chairman of the IWRB

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and upon the Attorney General.

Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemption. Any owner or operator aggrieved by the approval or disapproval of an application, or by conditions imposed upon a permit, or any person aggrieved by the Director's decision on a petition for exemption under Section 025 of these rules, shall be afforded an opportunity for a hearing before the IWRB or its designated hearing officer. Written notice of such grievance shall be transmitted to the Director within thirty (30) days after receipt of notice of such approval, disapproval or conditional approval. Such hearing shall be held for the purpose of determining whether the permit shall be issued, whether the conditions imposed in a permit are reasonable, whether a change in circumstances warrants a change in conditions imposed in a valid permit, or whether the Director's decision on a petition for exemption should not be changed. Hearings on Permit Cancellations. When the Director has reason to believe the operation of an injection well for which a permit has been issued is interfering with the right of the public to withdraw water for beneficial uses, or is eausing unreasonable contamination of a drinking or other ground water source as provided for in Title 42, Chapter 39, Idaho Code, the permit may be canceled by the Director. Prior to the cancellation of such permit there shall be a hearing before the IWRB for the purpose of determining whether or not the permit should be canceled. At such hearing, the Director shall be the complaining party. At least thirty (30) days prior to the hearing, a notice, which shall be in accordance with Chapter 52, Title 67, Idaho Code, shall be sent by certified mail to the owner or operator whose permit is proposed to be canceled. The Board shall affirm, modify, or reject the Director's decision and make its decision in the form of an order to the Director. 021011. -- 034<u>019</u>. (RESERVED) 035020. CLASSIFICATION OF INJECTION WELLS. 01. Classification of Injection Wells. For the purposes of these rules, injection wells are classified as follows: (3-18-22)Class I: (3-18-22)a. Wells used by generators of hazardous waste or owners or operators of hazardous waste management facilities to inject hazardous waste beneath the lowermost formation containing, within one-quarter (1/4) mile of the well bore, an underground source of drinking water. (3-18-22)Other industrial and municipal disposal wells which inject fluids beneath the lowermost formation containing, within one-quarter (1/4) mile of the well bore, an underground source of drinking water. iii. Radioactive waste disposal wells which inject fluids below the lowermost formation containing an underground source of drinking water within one-quarter (1/4) mile of the well bore. (3-18-22)Class II. Wells used to inject fluids: (3-18-22)b. Which are brought to the surface in connection with natural gas storage operations, or i. conventional oil or natural gas production and may be commingled with waste waters from gas plants, dehydration stations, or compressor stations which are an integral part of production operations, unless those waters are classified as a hazardous waste at the time of injection. (3-18-22)ii. For enhanced recovery of oil or natural gas; and (3-18-22)For storage of hydrocarbons which are liquid at standard temperature and pressure. (3-18-22_ iii. Class III. Wells used to inject fluids for extraction of minerals including: (3-18-22)c. Mining of sulfur by the Frasch process; (3-18-22)i. In situ production of uranium or other metals; this category includes only in-situ production from ore bodies which have not been conventionally mined. Solution mining of conventional mines such as stopes

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	leaching is inclu	(3-18-22)					
1	iii.	Solution mining of salts or potash.	(3-18-22)				
	d.	Class IV:	(3-18-22)				
	hazardous waste	Wells used by generators of hazardous waste or of radioactive waste, by owners a management facilities, or by owners or operators of radioactive waste disposal site or radioactive waste into or above a formation which within one-quarter (1/4) perground source of drinking water.	tes to dispose of				
	hazardous waste	Wells used by generators of hazardous waste or of radioactive waste, by owners or management facilities, or by owners or operators of radioactive waste disposal sit or radioactive waste above a formation which within one-quarter (1/4) mile of the arce of drinking water.	tes to dispose of				
I I	iiii. Wells used by generators of hazardous waste or owners or operators of hazardous waste management facilities to dispose of hazardous waste, which cannot be classified under Subparagraphs 035.01.a.i. or 035.01.d.i. or 035.01.d.ii. of this rule (e.g., wells used to dispose of hazardous waste into or above a formation which contains an aquifer which has been exempted pursuant to Section 025 of these rules).						
	e.	Class V All injection wells not included in Classes I, II, III, IV, or VI.	(3-18-22)				
	f.	Class VI.	(3-18-22)				
1	i. beneath the lowe	Wells that are not experimental in nature that are used for geologic sequestration of ermost formation containing a USDW; or	f carbon dioxide (3-18-22)				
1	ii. Wells used for geologic sequestration of carbon dioxide that have been granted a waiver of the injection depth requirements pursuant to requirements at 40 CFR Section146.95; or (3-18-22)						
1	iii. Wells used for geologic sequestration of carbon dioxide that have received an expansion to the areal extent of an existing Class II enhanced oil recovery or enhanced gas recovery aquifer exemption pursuant to Section 025 of these rules.						
	02.	Subclassification. Class V wells are subclassified as follows:	<u>((3-18-22)</u>				
Ì	a.	5A5-Electric Power Generation.	(3-18-22)				
	b.	5A6-Geothermal Heat.	<u>((3-18-22</u>)				
	c.	5A7-Heat Pump Return.	(3-18-22)				
	d.	5A8-Aquaculture Return Flow.	(3-18-22)				
	e.	5A19-Cooling Water Return.	(3-18-22)				
	f.	5B22-Saline Water Intrusion Barrier.	(3-18-22)				
	g.	5D2-Storm Runoff.	(3-18-22)				
	h.	5D3-Improved Sinkholes.	(3-18-22)				
	i.	5D4-Industrial Storm Runoff.	(3-18-22)				
I	j.	5F1-Agricultural Runoff Waste.	(3-18-22)				

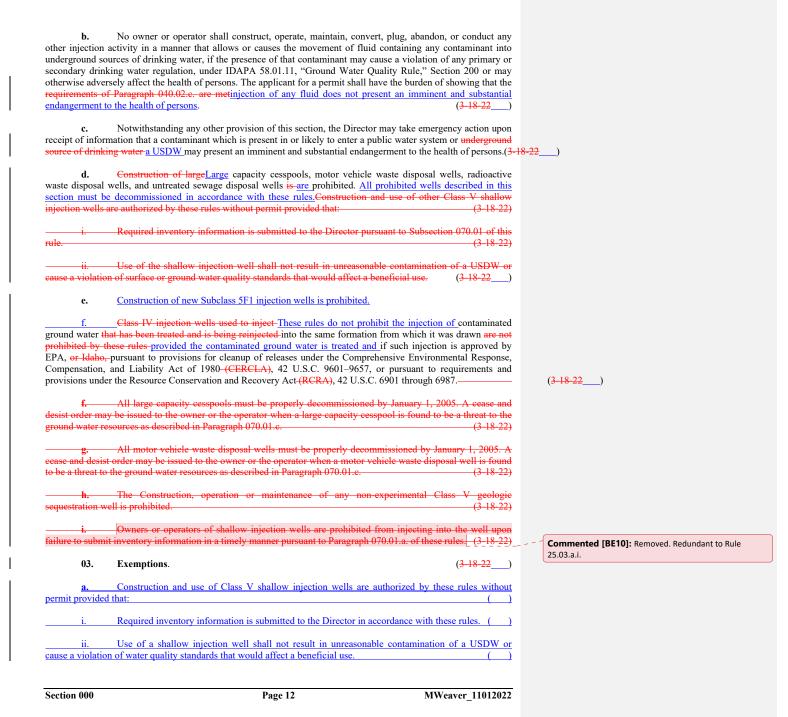
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	k.	5G30-Special Drainage Water.	(3-18-22)	
	l.	5N24 ¹ -Radioactive Waste Disposal ¹ .	(3-18-22)	
	m.	5R21-Aquifer Recharge.	(3-18-22)	
	n.	5S23-Subsidence Control.	(3-18-22)	
	0.	5W9-Untreated Sewage ¹ .	(3-18-22)	
	p.	5W10- <u>Large Capacity</u> Cesspools ¹ .	(3-18-22)	
	q.	5W11-Septic Systems (General).	(3-18-22)	
	r.	5W12-Waste Water Treatment Plant Effluent.	(3-18-22)	
	s.	5W20-Industrial Process Water.	(3-18-22)	
	t.	5W31-Septic Systems (Well Disposal).	(3-18-22)	
	u.	5W32-Septic System (Drainfield).	(3-18-22)	
	v.	5X13-Mine Tailings Backfill.	(3-18-22)	
	w.	5X14-Solution Mining.	(3-18-22)	
	х.	5X15-In-Situ Fossil Fuel Recovery.	(3-18-22)	
	у.	5X16-Spent Brine Return Flow.	(3-18-22)	
	z.	5X25-Experimental Technology.	(3-18-22)	
	aa.	5X26-Aquifer Remediation.	(3-18-22)	
	bb.	5X27-Other Wells.	(3-18-22)	
	cc.	5X28 ⁺ -Motor Vehicle Waste Disposal Wells ¹ .	(3-18-22)	
	dd.	5X29-Abandoned Water Wells.	(3-18-22)	
	¹ The c	onstruction and operation of wells in these subclasses is currently	illegal <u>prohibited</u> in Idaho.	
036 <u>02</u> 1	<u>1</u> 039 0	<u>24</u> . (RESE	RVED)	
040025	5. AUTH	ORIZATIONS, PROHIBITIONS AND EXEMPTIONS.		
		Authorizations. Construction and use of Class V deep injected by the Director in accordance with these rules and the "W	ell Construction Standards Rules"	
<u>found</u>	in IDAPA	37.03.09 which are authorized under Section 42-238, Idaho Code	e. (3-18-22)_	Commented [BE9]: Moved from Rule 1.01.
	02.	Prohibitions.	(3-18-22)	
well.	a.	These rules prohibit the permitting, construction, or use of an	y Class I, III, IV, or VI injection	
			(3-18-22)	

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a n.	The UIC inventory and fee requirements of these rules do not apply to individual II	
subsurface sew	age disposal system wells . These systems are, however, are exempt from these Rules but s	ubject t
the permitting	and fee requirements of IDAPA 58.01.03 "Individual/Subsurface Sewage Disposal Rules,"	Title 39
Chapter 1 and 7	Fitle 39, Chapter 36, Idaho Code. (3-18)	-22
bc. associated with	State or local government entities are exempt from the permit requirements of these rules highway and street construction and maintenance projects, but shall submit shallow inject mation for said wells and shall comply with all other requirements of these rules. (3-18)	tion wel
,	(**************************************	
ed.	Mine tailings backfill (5X13) wells are authorized by rule as part of mining operations.	They ar
therefore exem	pt from the ground water quality standards and permitting requirements of these rules prov	ided tha
their use is limi	ted to the injection of mine tailings only. The use of any 5X13 well(s) shall not result in water	r qualit
	ints of diversion for beneficial use being that exceeded exceed or otherwise affect a benef	
Should water q	uality standards be exceeded or beneficial uses be affected, the Director may order the wells	to be pu
	it requirements of these rules, or the wells may be required to be remediated or closed. As a	
	e Director may require the construction and sampling of monitoring wells by the owner/	
5X13 wells are	subject to the inventory requirements of Subsection 070.01 described in these Rules. (3-18)	-22
	Variance of Methods. The Director may approve the use of a different testing m	
technology if it	is no less protective of human health and the environment, will not allow the migration of	injecte
	SDW, meets the intent of the rule, and yields information or data consistent with the origina	
or technology r	equired. A request for review by the Director must be submitted in writing by the applicantor and be included with all pertinent information necessary for the Director to evaluate the	t, perm
testing method	or technology.	
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	()	
	S V SHALLOW INJECTION WELL REQUIREMENTS	
030. CLAS	S V SHALLOW INJECTION WELL REQUIREMENTS Authorization. All owners or operators of shallow Class V injection wells, including i	
030. CLAS #01. sinkholes used	S V SHALLOW INJECTION WELL REQUIREMENTS Authorization. All owners or operators of shallow Class V injection wells, including if for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to	submit
030. CLAS #01. sinkholes used Shallow Injecti	Authorization. All owners or operators of shallow Class V injection wells, including i for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to on Well Inventory Form to the Department no later than thirty (30) days prior to commence	submit ement o
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a01. sinkholes used Shallow Injecticonstruction for has not previou Department we inventory information. iia. iib. iiic. ivd.	Authorization. All owners or operators of shallow Class V injection wells, including is for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to on Well Inventory Form to the Department no later than thirty (30) days prior to commence each new well or no later than thirty (30) days after the discovery of an existing injection sly been inventoried with the Department. Forms are available from any Department office beste at http://www.idwr.idaho.gov. State or local government entities shall submit the fination for wells associated with highway and street construction and maintenance projects. Facility name and location; and County in which the injection well(s) is (are) located; and Ownership of the well(s); and Name, address and phone number of legal contact; and Type or function of the well(s); and Number of wells of each type; and	submit ement of well that or at the following (
a01. sinkholes used Shallow Injecticonstruction for has not previou Department we inventory information. iib. iiic. ivd. ve. vif. viig.	Authorization. All owners or operators of shallow Class V injection wells, including is for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to on Well Inventory Form to the Department no later than thirty (30) days prior to commence reach new well or no later than thirty (30) days after the discovery of an existing injection sly been inventoried with the Department. Forms are available from any Department office besite at http://www.idwr.idaho.gov. State or local government entities shall submit the fination for wells associated with highway and street construction and maintenance projects. Facility name and location; and County in which the injection well(s) is (are) located; and Ownership of the well(s); and Name, address and phone number of legal contact; and Type or function of the well(s); and Number of wells of each type; and Operational status of the well(s).	submit ement of well that or at the following (
a01. sinkholes used Shallow Injecticonstruction for has not previous Department we inventory inform ia. iib. iiic. ivd. ve. vif. viig. b02.	Authorization. All owners or operators of shallow Class V injection wells, including is for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to on Well Inventory Form to the Department no later than thirty (30) days prior to commence reach new well or no later than thirty (30) days after the discovery of an existing injection sly been inventoried with the Department. Forms are available from any Department office besite at http://www.idwr.idaho.gov. State or local government entities shall submit the fination for wells associated with highway and street construction and maintenance projects. Facility name and location; and County in which the injection well(s) is (are) located; and Ownership of the well(s); and Name, address and phone number of legal contact; and Type or function of the well(s); and Number of wells of each type; and Operational status of the well(s). Inventory Fees. For shallow injection wells constructed after July 1, 1997, the Shallow	submit ement of well that or at the following (
a01. sinkholes used Shallow Injecti construction fo has not previou Department we inventory inform ia. iib. iiic. ivd. ve. vif. viig. b02. Well Inventory	Authorization. All owners or operators of shallow Class V injection wells, including i for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to on Well Inventory Form to the Department no later than thirty (30) days prior to commence each new well or no later than thirty (30) days after the discovery of an existing injection sly been inventoried with the Department. Forms are available from any Department office besite at http://www.idwr.idaho.gov. State or local government entities shall submit the fination for wells associated with highway and street construction and maintenance projects. Facility name and location; and County in which the injection well(s) is (are) located; and Ownership of the well(s); and Name, address and phone number of legal contact; and Type or function of the well(s); and Number of wells of each type; and Operational status of the well(s). Inventory Fees. For shallow injection wells constructed after July 1, 1997, the Shallow Form shall be accompanied by a fee as specified in Section 42-3905(2), Idaho Code, payal	submit ement of well that or at the following of the foll
a01. Sinkholes used Shallow Injectic construction for has not previous Department we inventory information. iii. iiic. ivd. vif. vif. viig. b02. Well Inventory Department of	Authorization. All owners or operators of shallow Class V injection wells, including is for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to on Well Inventory Form to the Department no later than thirty (30) days prior to commence each new well or no later than thirty (30) days after the discovery of an existing injection sly been inventoried with the Department. Forms are available from any Department office besite at http://www.idwr.idaho.gov. State or local government entities shall submit the fination for wells associated with highway and street construction and maintenance projects. Facility name and location; and County in which the injection well(s) is (are) located; and Ownership of the well(s); and Name, address and phone number of legal contact; and Type or function of the well(s); and Number of wells of each type; and Operational status of the well(s). Inventory Fees. For shallow injection wells constructed after July 1, 1997, the Shallow Form shall be accompanied by a fee as specified in Section 42-3905(2), Idaho Code, payal Water Resources. State or local government entities are exempt from filing fees for shallow	submit ement of well that or at the following of the foll
a01. Sinkholes used Shallow Injectic construction for has not previous Department we inventory information. iii. iiic. ivd. vif. vif. viig. b02. Well Inventory Department of	Authorization. All owners or operators of shallow Class V injection wells, including i for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to on Well Inventory Form to the Department no later than thirty (30) days prior to commence each new well or no later than thirty (30) days after the discovery of an existing injection sly been inventoried with the Department. Forms are available from any Department office besite at http://www.idwr.idaho.gov. State or local government entities shall submit the fination for wells associated with highway and street construction and maintenance projects. Facility name and location; and County in which the injection well(s) is (are) located; and Ownership of the well(s); and Name, address and phone number of legal contact; and Type or function of the well(s); and Number of wells of each type; and Operational status of the well(s). Inventory Fees. For shallow injection wells constructed after July 1, 1997, the Shallow Form shall be accompanied by a fee as specified in Section 42-3905(2), Idaho Code, payal	submit ement of well that or at the following of the foll

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of these rules. ()	
e03. Permit Requirements. Where a Class V shallow injection well is owned or operated by an entity other than a state or local government agency involved in highway and street construction and maintenance, the	
Director may authorize continued operation of the well through a permit that specifies the terms and conditions of	
acceptable operation. ()	
acceptable operation.	
d04. Permanent Decommission. Owners or operators of shallow injection wells shall notify the	
Director not less than thirty (30) days prior to permanent decommissioning of any shallow injection well. Permanent	
decommissioning. Decommissioning shall be accomplished in accordance with procedures approved by the Director.)
getting green and the decomposite in decordance with proceeding approved by the Directory	
e05. Inter-Agency Cooperation. The Department may seek the assistance of other state or local	
government agencies or entities, including cities, counties, health districts, and highway districts to inventory,	
monitor, and inspect shallow injection wells. Assistance is to be negotiated through a memorandum of	
understanding between the Department and the state or local entity subject to the Director's approval.	
06. Cessation of Injection Well Activity. The Director shall require immediate cessation of any	
Class V shallow injection well activity that causes or may cause unreasonable contamination of a USDW or a	
violation of ground water quality standards. ()	
031 034. (RESERVED)	
035. CLASS V INJECTION WELL REQUIREMENTS	
	Comment of the first of the fir
a01. Permit Required for Class V Deep Injection Wells. No person shall construct, modify,	Commented [BE11]: Added language noting that deep
maintain, or use a Class V deep injection well unless a permit has been issued by the Director. An application for	injection of recycled water must also adhere to 58.01.17
permit shall be completed and filed with the director on a form approved by the department accompanied by a filing	permitting requirements.
fee as specified in Section 42-3905(1), Idaho Code. Applications proposing to inject recycled municipal wastewater or recycled industrial wastewater must also adhere to IDAPA 58.01.17 (Recycled Water Rules) permitting	Commented [BE12]: City of Middleton (Comment,
requirements.	/ 6/13/23) requested that IDWR allow IDEQ to regulate sha
requirements.	low injection wells under their Recycled Water Program
02. Permit Requirements for Class V Shallow Injection Wells. No person shall construct, modify,	(permit).
maintain, or use a Class V shallow injection well to inject recycled municipal wastewater or recycled industrial	LUC December is a minimum resource and to EDA and its as
wastewater unless a permit has been issued by the Director. An application for permit shall be completed and filed	UIC Program is a primacy program under EPA, and is required to regulate all Class V injection wells. City of Mid-
with the director on a form approved by the department accompanied by a filing fee as specified in Section 42-	dleton's project meets the definition of a shallow injection
3905(1), Idaho Code. An application for permit may be required for the construction, modification, or use of all	well under EPA rules. Additionally, IDAPA 58.01.17 (Recy
other shallow injection wells if the Director determines that the injection could result in unreasonable contamination	cled Water Rules) does not have definition of shallow inju
of a USDW or cause a violation of water quality standards that would affect a beneficial use. Applications proposing	tion well or any injection wells. As a result, permits from
to inject recycled municipal wastewater or recycled industrial wastewater must also adhere to IDAPA 58.01.17	both agencies will be required.
(Recycled Water Rules) permitting requirements.	
	Commented [BE13]: City of Middleton (Comment, 6/13/23) requested that IDWR clarify the statement that
b03. Application Information Required. An applicant shall submit the following information to the	director "may" require a permit; presumably clarify unde
Director for all injection wells to be authorized by permit, unless the Director determines that it is not needed in	what specific conditions could the director require a perm
whole or in part, and issues a written waiver to the applicant:	what specific conditions could the director require a pen
	Nuanced situations that could have a negative impact on
ia. Facility name and location;	Idaho's valuable groundwater resource would be difficult
	not impossible to fully capture or specify here.
#b. Name, address and phone number of the well operator; ()	Commented [BE14]: Added language requiring permit
iiic. Class, subclass and function of the injection well (see Section 035);	(for Shallow Injection Wells) to inject recycled municipal
mg. Crass, succlass and function of the injection wen (see section 0.5.),	industrial wastewater and authorizing the Director to re-
ivd. Latitude/longitude or legal description of the well location to the nearest ten (10) acre tract;	quire permits for shallow injection wells if deemed neces
	sary to ensure groundwater resources are protected.
ve. Ownership of the well;	Added language noting that shallow injection of recycled
	water must also adhere to 58.01.17 permitting require-
	ments.

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<u>vif.</u>	County in which the injection well is located;	()
viig.	Construction information for the well;	()
viii <u>h.</u>	Quantity and general character of the injected fluidsDescribe the quality, composiniected fluids;	
1		()
<u>ix</u> i.	Status of the well;	()
xj. depicting:	A topographic map or aerial photograph extending one (1) mile beyond property be	oundaries,
(1)	Location of the injection well and associated facilities described in the application;	(
(2)	Locations of other injection wells;	()
(3)	Approximate drainage area, if applicable;	()
(4)	Hazardous waste facilities, if applicable;	()
(5)	All wells used to withdraw drinking water;	()
(6)	All other wells, springs and surface waters.	()
<u>xi</u> i.	Distance and direction to nearest domestic well;	()
XIII.	Depth to ground water; and	(
<u>XIII</u> III.	Alternative methods of waste disposal.	(
complete the pro- additional infor- application until	Additional Information. The Director may require an applicant to submit additional in that the proposed or existing injection well will not endanger a USDW. The Director occasing of an application for which additional information has been requested until such mation is supplied. The Director may return any incomplete application and will not propose to time as the application is received in complete form. Additional information may in the following items: A topographic map showing locations of the following within a two (2) mile radiations.	or will not time as the ocess such nclude, but
(1)	All wells producing water;	()
(2)	All exploratory and test wells;	
(3)	All other injection wells;	
(4)	Surface waters (including man-made impoundments, canals and ditches);	()
(5)	Mines and quarries;	(
(6)	Residences;	()
(7)	Roads;	()
(8)	Bedrock outcrops; and	()

Commented [BE15]: City of Boise (Comment, 5/10/23) asked what would be required to define the "composition."

*The common definition of "composition" is the nature or description of something's ingredients or constituents. In the case of a proposed injectate, the applicant would need to conduct baseline water quality analyses of the injectate to determine what they are proposing to inject. If the question is asking for guidance on performing a baseline study, due to inherent nuance associated with baseline studies, IDWR believes the applicant should propose a baseline study method for IDWR review and approval.

Commented [BE16]: Language from Rule 35.04 below moved and combined here. Deleted Rule 35.04.

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(9)	Faults and fractures.	()
<u>iib.</u>	Additional maps or aerial photographs of suitable scale to accurately depict the following	<u>ng:</u> ()
(1)	Location and surface elevation of the injection well described in this permit;	(
(2)	Location and identification of all facilities within the property boundaries;	(
(3) radius of the inj	Locations of all wells penetrating the proposed injection zone or within a one-quarte jection well;	r (1/4) mile
	Maps and cross sections depicting all underground sources of drinking water to include its within a one-quarter (1/4) mile radius of the injection well, their position relative to trirection of water movement: local geologic structures; regional geologic setting.	
iiic.	A comprehensive report of the following information:	()
(1)	A tabulation of all wells penetrating the proposed injection zone, listing owner, lease identification (permit) number; size, weight, depth and cementing data for all strings of cases.	
	Description of the quality and quantity of fluids to be injected Description of nd quantity of fluids to be injected;	the quality,
Description of beds; methods to	Geologie, hydrogeologie, and physical characteristics of the injection zone and cor geologie, hydrogeologie, and geochemical conditions present in the injection zone an for determining geochemical conditions shall be approved by the Director;	
(4)	Engineering data for the proposed injection well;	()
(5)	Proposed operating pressure;	()
(6)	A detailed evaluation of alternative disposal practices;	(
(7) decommissione	A plan of corrective action for wells penetrating the zone of injection, but not proper ed; and	ly sealed or
(8) unacceptable flu	Contingency plans to cope with all shut-ins or well failures to prevent the muids into underground sources of drinking waters.	nigration of
<u>ivd.</u> and/or designin	Name, address and phone number of person(s) or firm(s) supplying the technical ag the injection well;	information ()
v e.	Proof that the applicant is financially responsible, through a performance bon ans, to decommission the injection well in a manner approved by the Director.	
036 049.	(RESERVED)	
050. CLAS	SS V INJECTION WELL REQUIREMENTS – APPLICATION PROCESSING	
reasons for der	Draft Permit Preparation. After all application information is received and exprepare a draft permit or denial, which will include the application for permit, permit conial, and any compliance schedules or monitoring requirements. In preparing the draft	onditions or
denial, the Dire	ector shall consider the following factors:	()

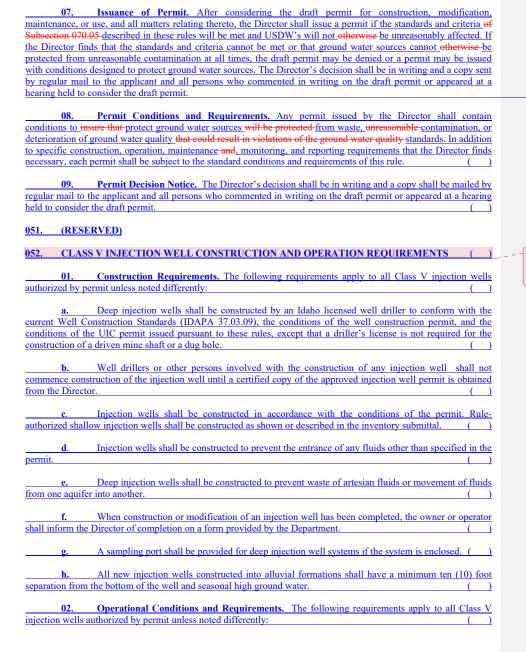
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a.	The availability of economic and practical alternative means of disposal; ()	Commented [BE18]: City of Boise (Comment, 5/10/23)
b.	The application of best management practices to the facilities and/or area draining into the well;	asked "what documentation would be required to prove or disprove the availability of economic and practical alternative means of disposal?"
c.	The availability of economical, practical means of treating or otherwise reducing the amount of n the injected fluids;	*"Economic" refers to low-cost and "practical" refers to how sensible and realistic a method is. Is the City asking what exact information is required to counter the Director's deci-
d.	The quality of the receiving ground water, its category, its present and future beneficial uses or	sion based on this bullet point? Need some clarification. We
interconnected	surface water; ()	will discuss this question during our next public meeting on June 1st.
<u>e.</u>	The location of the injection well with respect to drinking water supply wells; and ()	(4
f.	Compliance with the IDAPA 58.01.11, "Ground Water Quality Rule."	
<u>g.</u>	The benefit to the State of Idaho. ()	
02.	Public Notice. The Director will provide public notice of any draft permit to construct, maintain	
	lass V injection well by means of a legal notice in a newspaper of general circulation in the county in list located. The Director may give additional notice as necessary to adequately inform the interested	
	renmental agencies. There shall be a period of at least thirty (30) days following publication for any	
interested pers	on to submit written comments.and to request a fact-finding hearingThe hearing will be held by the	
Director if dee	med necessary. ()	
	Review by the Directors of Other State Agencies. The Directors of other state agencies, as the Director, shall be provided the given an opportunity to review and comment on draft permits. Ill be submitted to the Director within thirty (30) days of public notice.	
Comments sna	in be submitted to the Director within thirty (30) days of public house.	
04.	Open-Loop Heat Pump Return Wells (Subclass 5A7). The Director may waive the draft permit	
	permit cycle requirements of these rules for any application proposing use of an open-loop heat pump eater than eighteen (18) feet in depth solely for disposal of heat pump water at a rate not exceeding	
fifty (50) gpm.		
05.	Fact-Finding Hearings. At the Director's discretion, or upon motion of any interested individual,	
	ay elect to hold a fact-finding hearing. Said hearing will be held at a location in the geographical area n well. Notice of said hearing will be provided at least thirty (30) days in advance of the hearing by	
regular mail to	the applicant and to the person or persons requesting the hearing. Public notice of the fact-finding	
hearing shall b	e made in a newspaper of general circulation in the county where the injection well is located. ()	
06.	Draft Permit Final Review and Consideration. The Director will consider the following factors	
when taking fir	nal action on draft permits: ()	
a.	The potential for unreasonable contamination or deterioration of ground water quality:	(
<u>b.</u>	The likelihood and consequences of the injection well system failing; ()	
<u> </u>	The long-term effects of such disposal or storage; ()	
d.	The recommendations and related justifications of the Directors of other state agencies and the	
e. of beneficial us	The potential for violation of ground water quality standards at the point of injection or the point se; and	
f.	Compliance with the Idaho Ground Water Quality Plan. ()	

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Commented [BE19]: Created Rule 52 for organization, moved content previously in Draft Rule 50. No substantive changes.

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	The injection well shall not be used until the construction, operation and mainted	
	f the permit are met and provisions are made for any required inspection, monitoring and	record
keeping.		
b.	For both permitted injection wells and rule-authorized shallow injection wells, injection of	of any
	concentrations exceeding the standards set in Paragraph 050.03.c. into a present or future drink	
	vater source that may cause a health hazard or adversely affect a designated and protected	use is
prohibited.		
	The injection well owner or operator shall develop approved procedures to detect construction	
operational fails	ure in a timely fashion and shall have contingency plans to cope with the well failure.	<u>()</u>
	Authorized representatives of the Department shall be allowed to enter, inspect and/or sample	<u>e:</u>
	The injection well and related facilities;	<u>()</u>
(ii)	The owner or operator's records of the injection operation;	()
		<u></u>
(iii.)	Monitoring instrumentation associated with the injection operation; and	()
(iv.)	The injected fluids.	()
Δ.	The injection facilities shall be operated and maintained to achieve compliance with all term	ne and
conditions of th	is permit.	()
	Proper operation and maintenance includes effective performance, adequate funding, op	
	raining, and adequate laboratory and process controls, including appropriate quality assu	urance
procedures;		()
σ	If compliance cannot be met, the owner shall take corrective action as determined by the Di	irector
	ection.	()
		
	The owner shall mitigate any adverse effects resulting from non-compliance with the term	ns and
conditions of th	ne permit.	()
I.	If the injection well was constructed prior to issuance of the permit, the well shall be broughth the terms and conditions of the permit in accordance with the schedule of compliance issued	ht into
		()
Director.		
j.	The permit shall not convey any property rights.	()
03.	Conditions of Permanent Decommissioning. The following requirements apply to all C	lass V
injection wells	authorized by permit and rule authorized shallow injection wells, unless noted differently:	
9	Notice of intent to permanently decommission a well shall be submitted to the Director no	ot less
than thirty (30)	days prior to commencement of the decommissioning activity.	()
		/
	The method of permanent decommissioning for all injection wells shall be approved by	oy the
Director prior to	o commencement of the decommissioning activity.	()
	XIV. 6 12 6 2 12 12 12 12 13 14 15 15 16 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	arri
	Notice of completion of permanent decommission shall be submitted to the Director within mpletion.	tnirty
(30) days of Col	присион.	
d.	All deep injection wells that are to be permanently decommissioned shall be plugg	ged in
accordance witl	h current Well Construction Standards.	()

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e. Following permanent cessation of use, or where an injection well is not completed, the Director shall be notified. Decommissioning procedures or other action, as prescribed by the Director, shall be conducted.
f. The injection well owner or operator has the responsibility to ensure that the injection operation is decommissioned as prescribed.
04. Duration of Approved Permits. The length of time that a permit may be in effect for Class V wells authorized by permit shall not exceed ten (10) years.
053 - 054. (Reserved) 055. Standards For the Quality of Fluids Injected into Class V Wells. ()
O1. General. Injected fluids shall meet ground water quality standards for physical, biological, chemical, and radiological contaminants, and if ground water produced from adjacent points of diversion for beneficial use meets the water quality standards as defined in these rules, then that aquifer will be protected from unreasonable contamination and will be preserved for diversion to beneficial uses. The Director may, however, when it is deemed necessary, require specific injection wells to be constructed and operated in compliance with additional requirements, such as best management practices (BMPs), so as to protect the ground water resource from deterioration and preserve it for diversion to beneficial use.
02. Waivers. A waiver of one (1) or more standards may be granted by the Director if it can be demonstrated by the applicant that the contaminants in injected fluid will not endanger a ground water source for any present or future beneficial use.
03. Chemical and Radiological Contaminants in Injected Fluids. The following limits shall not be exceeded in injected fluids from a well when such fluids will or are likely to reach a USDW:
a. The concentration of each chemical contaminant in the injected fluids shall not exceed the concentration of each contaminant in the receiving water or the ground water quality standard, whichever is less stringent; and
b. Radiological levels of the injected fluids shall not exceed those levels specified by the ground water quality standards.
04. Biological contaminants. The following restrictions apply to injected fluids with biological contaminants included in the ground water quality standard.
a. Contamination of ground water produced at any point of diversion for beneficial use by injected fluids containing coliform bacteria in concentrations greater than the current ground water quality standard is prohibited;
b. Construction of shallow and deep injection wells, as specified by the Director, that are likely to exceed the current ground water quality standard for coliform bacteria at the point of diversion for beneficial use is prohibited; and
c. The Director may require the use of best management practices (BMPs) to reduce the potential concentration of coliform bacteria in the injected fluids;
d. The Director may require the use of water treatment technology, including ozonation and chlorination devices, sand filters, and settling pond specifications to reduce the potential concentration of coliform bacteria in injected fluids;
e. Ground water produced from points of diversion for beneficial use within the distances identified

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in Table 1. that inject fluids containing coliform bacteria in concentrations greater than the current ground water quality standard shall be subject to monitoring for bacteria by the owner/operator of the injection well. A waiver of the monitoring requirement may be granted by the Director when it can be demonstrated that injection will not result in unreasonable contamination of ground water produced from these adjacent points; entirety. f. At no time shall any untreated fluid containing or suspected of containing fecal contaminants of human origin be injected into any Class V injection well authorized under these rules. Itrigation practices IDWR could: usingSubsurface fluid distribution systems that apply or discharge recycled water <mark>limited to saturation of discharged</mark> into to the root-zone and regulated by IDEQ under IDAPA 58.01.17 (Recycled Water Rules) are exempt from this rule. Physical, visual, and olfactory characteristics. The following restrictions apply to physical, visual, and olfactory characteristics of injected fluids. The temperature, color, odor, conductivity, turbidity, pH, or other characteristics of the injected fluid may not result in the receiving ground water becoming less suitable for diversion to beneficial uses, as determined by the Director. (c) Remove in its entirety. Injectate Standards for the Quality of Recycled Municipal Wastewater or Recycled Industrial Wastewater. Shallow Injection Wells. Recycled municipal wastewater or recycled industrial wastewater shall meet or exceed ground water quality standards (IDAPA 58.01.11) and comply with IDAPA 58.01.17 (Recycled Water Rules) prior to injecting into a shallow injection well. Deep Injection Wells. Recycled municipal wastewater or recycled industrial wastewater shall meet or exceed ground water quality standards (IDAPA 58.01.11) and comply with IDAPA 58.01.17 (Recycled Water Rules) prior to injecting into a deep injection well. Additionally, the concentration of each contaminant in the injected fluids shall not exceed the background concentration of each contaminant in the receiving water that is additionally infiltration will occur. likely to reach a USDW. The background concentration of any applicable contaminant shall be determined by a statistical analysis consisting of a type and method approved by the Department, Standards for the Quality of Fluids Injected to Subclass 5A7 Wells (Open-Loop Heat Pump Return). The quality of fluids injected to a Subclass 5A7 injection well shall comply with ground water quality standards or shall be equal to the quality of the ground water source passed through a heat exchange system, whichever is less stringent. "of human origin" from the rule. If the quality of the ground water source does not meet ground water quality standards, the injected fluids must be returned to the formation from which they were drawn. The temperature of the injected fluids shall not impair the designated beneficial uses of the ambiguity. receiving ground water. (RESERVED) Criteria for Location and Use of Class V Wells Requiring Permits. General: A Class V injection well requiring a permit may be required to be located a minimum

Commented [BE20]: City of Middleton (Comment, 6/13/23) requested that IDWR modify this sentence to include "untreated fluid" in place of "fluid" or remove in its

(a) update the first sentence to include "untreated fluid" for clarity; could have the negative affect of inferring that treated fluid with fecal contamination is allowed to be injected. However, Rule 55.06a and 55.06b effectively note treatment requirements.

(b) Clarify that at no time shall any fluid containing one (1) or more colony forming units (CFU) or most probable number (MPN) as determined by approved EPA lab analysis method, be injected into any Class V well.

Commented [EB21]: Idaho Conservation League (Comment, 6/22/23) requested that IDWR have legal review this rule to determine the legality of injecting treated/untreated fecal contaminants and update proposed language as nec-

Commented [BE22]: City of Middleton (Comment, 6/13/23) requested that IDWR remove the phrase "limited to saturation of" and replace with "discharge into" since land application will occur during non-irrigation season, and

Commented [BE23]: City of Middleton (Comment, 5/1/23) requested that IDWR consider exemption for variations of land application (irrigation) methods regulated by IDAPA 58.01.17 (Recycled Water Rules).

Commented [EB24]: City of Boise (Comment, 6/19/24) Requested that IDWR (1) add definition of "fecal contaminants" and (2) remove "suspected of contaminating" and

Commented [EB25]: Idaho Conservation League (Comment, 6/22/23) requested the proposed language to avoid

Commented [EB26]: City of Boise (Comment, 6/19/23) requested that IDWR remove this phrase and instead use "Additionally, injected recycled municipal wastewater or recycled industrial wastewater shall not degrade ground water quality as determined by IDAPA 58.01.11."

Commented [BE27]: Added language to ensure appropriate treatment prior to injection of recycled municipal and

Commented [BE28]: Created Rule 57 to organize, no substantive changes

Commented [BE29]: Added language to clarify infor-

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distance, as determined from Table 1, from any point of diversion for beneficial use that could be harmed by

bacterial contaminants. The minimum distance shown in Table 1 is also referred to as the zone of influence. This requirement is not applicable to wells injecting fluids of quality that meet adopted ground water quality standards. In addition, the Director may require a Class V injection well to be located a distance from a point of diversion for

beneficial use to minimize or prevent ground water contamination resulting from unauthorized or accidental

injection, as determined by the Director.

a The location requirements in Table 1 may be waived when the applicant can demonstrate that any springs or wells within the minimum distance as determined from Table 1 will not be contaminated by the applicant's injection well. The applicant may be required to monitor production wells or springs within the minimum distance as determined in Table 1 to demonstrate that they are not being contaminated.

Determined Radii of the Zone of Influence Based on Maximum Average Weekly Injection Rates (cfs) of Class V Injection Wells *

Injection (cfs)	Radius (ft)
<u>0 - 0.20</u>	800
<u>0.20 - 0.60</u>	<u>1,400</u>
<u>0.61 - 1.00</u>	1.800
<u>1.01 - 2.00</u>	2,500
<u>2.01 - 3.00</u>	3,000
3.01 - 4.00	3,500
4.01 - 5.00	4,000
Greater than 5.00	As determined by the Director

* Injection rate	es shall be based on the average volume of fluids injected into the well during the week of greatest
injection in an	average water year. ()
b.	Injection wells installed into fractured basalt are exempt from separation distances.
с.	The Director may reduce separation distance requirements if the quality of injected fluids are
improved throu	igh additional treatment or BMPs. (
d.	Heat pump return wells (sub-class 5A7) are exempt from the separation distance requirement of
this section.	
058.	Monitoring, Record Keeping, and Reporting Requirements. The Director may require
monitoring, rec	erd keeping, and reporting by any owner or operator if the Director finds that the well may adversely
affect a ground	water source or is injecting a contaminant that could have an unacceptable effect upon the quality of
the ground wat	ers of the state. ()
01.	Monitoring. The Director may require, as conditions of the permit, the installation, use, and
maintenance of	monitoring equipment or methods including, but not limited to, the following:
a.	Monitoring of injection pressures and pressures in the annular space between casings; ()
b.	Flow rate and volumes; ()
c.	Analysis of quality of the injected fluids for contaminants that are subject to limitation or
reduction unde	r the conditions of the permit; or other contaminants which the Director has reason to believe are in
the injected flu	

Commented [BE30]: Rephrased to clarify.

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	Monitoring of ground water through special monitoring wells or existing points of divers	ion for
beneficial use i	in the zone of influence as determined by the Director;	()
e.	A demonstration of the integrity of the casing, tubing, or seal of the injection well.	()
f.	The frequency of required monitoring shall be specified in the permit when issued, except to	hat the
Director at any	time may, in writing, require additional monitoring and reporting.	()
σ	All monitoring tests and analysis required by permit conditions shall be performed in	a state
certified labora	atory or other laboratory approved by the Director.	()
h. required by the	Any field instrumentation used to gather data, when specified as a condition of the permit, se Director to be tested and maintained in such a manner as to ensure the accuracy of the data.	
i.	All samples and measurements taken for the purpose of monitoring shall be representative	of the
monitoring act	ivity and fluids injected.	()
02		
02.	Record Keeping. The permittee shall maintain records of all monitoring activities to include	<u>e:</u> ()
a.	Date, time, and exact place of sampling;	()
b.	Person or firm performing analysis;	()
<u> </u>	reison of firm performing analysis,	
<u> </u>	Date of analysis, analytical methods used and results of analysis;	(
d.	Calibration and maintenance of all monitoring instruments; and	()
e.	All original tapes, strip charts or other data from continuous or automated monitoring instru	ments.
		()
02	Production Mr. M. M. Control and Control a	
	Reporting. Monitoring results obtained by the permittee pursuant to the monitoring require the Director shall be reported to the Director as required by permit conditions.	()
preserioed by t	the Director small be reported to the Director as required by permit conditions.	
	The Director shall be notified in writing by the permittee within five (5) days after the dis	
	of the terms and conditions of the permit. If the injection activity endangers human health or a ater supply, use of the injection well shall be immediately discontinued, and the owner or o	
	ely notify the Director. Notification shall contain the following information:	()
i.	A description of the violation and its cause;	()
ii	The duration of the violation, including dates and times; if not corrected or use of the	e well
discontinued, the	the anticipated time of correction; and	()
	•	
iii.	Steps being taken to reduce, eliminate and prevent recurrence of the injection.	()
b.	Where the owner or operator becomes aware of failure to submit any relevant facts in any	permit
	report to the Director, that person shall promptly submit such facts or information.	
-		
which the Dire	The permittee shall furnish the Director, within a time specified by the Director, any infor a tor may request to determine compliance with the permit.	
winch the Dire	ctor may request to determine compnance with the permit.	
	The Director shall be notified in writing of planned physical alterations or additions to any	facility
related to the p	ermitted injection well operation.	()

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e. Additional information to be r	reported to the Director in writing s	hall include:	(
i. Transfer of ownership;			(
ii. Any change in operational state	tus not previously reported;		()		
iii. Any anticipated noncompliance	ce: and		()		
*	meeting the requirements of any	compliance schedule atta	ched or		
assigned to an approved permit.	meeting the requirements of any	compilance senedule attai	(
f. All notices and reports submit	tted to the Director shall be signed	and certified.			
	may be assigned to a new owner				
the new owner or operator, within thirty (30) owner or operator shall be responsible for comp					
such change takes place.	Jiying with the terms and condition	is of the permit from the ti	()		
058 059. (RESERVED)					
060. HEARING BEFORE THE IDAHO	WATER RESOURCE BOARD. the Board will be conducted in acc	andanaa with Chantan 52. T	Citle 67		
Idaho Code. Judicial review of the final determi					
for review as prescribed by Chapter 52, Title 67	7, Idaho Code, in the District Court	t of the county where the in	njection		
well is situated or proposed to be located. The	petition for review shall be served	l upon the Chairman of the	e Board		
and upon the Attorney General.			() 1	Commented [BE31]: Removed,	not necessary. Duplic
01. Hearings on Conditional P	Permits, Disapproved Applicatio	ns, or Petitions for Exer	nption.	tive of Idaho Code.	
Any owner or operator aggrieved by the approv					
permit, or any person aggrieved by the Directo					
afforded an opportunity for a hearing before the Code § 42-3909. Section 025 of IWRB. Written					
hirty (30) days after receipt of notice of such a					
held for the purpose of determining whether the					
are reasonable, whether a change in circumstan			rmit, or		
whether the Director's decision on a petition for	exemption should not be changed.	<u> </u>			
02. Hearings on Permit Cancel	llations. The Board shall provide	notice and an opportunit	y for a		
nearing to the holder of any permit proposed to					
3910. has reason to believe the operation of an					
the right of the public to withdraw water for ber					
or other ground water source as provided for in Director. Prior to the cancellation of such per					
determining whether or not the permit should					
which shall be in accordance with Chapter 52,					
operator whose permit is proposed to be cancel	ed. The Board shall affirm, modify	y, or reject the Director's o	lecision		
and make its decision in the form of an order to	the Director.			<u> </u>	
061 069. (RESERVED)					
070. VIOLATIONS, FORMAL NOTIFIC	CATION AND ENFORCEMENT	<u>.</u>			
	tion of these rules for any owner or	_	(
	or authorization, or terms or conditi				
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Commented [BE32]: Unnecessary since the notification is prescribed by I.C. 42-1701B which we reference below in the Enforcement paragraph.

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comply with all o	ther requirements of these rules.	(3-18-22)
	Permit Requirements. If operation of a shallow Class V injection well is causin	a or may cause
	tamination of a USDW, or cause a violation of the ground water quality standar	
	e Director shall require immediate cessation of the injection activity. Where a C	
	operated by an entity other than a state or local entity involved in highway and str	
	the Director may authorize continued operation of the well through a permit the	
	ons of acceptable operation.	(3-18-22)
terms and conditi	ons of acceptable operation.	(3-10-22)
d.	Permanent Decommission. Owners or operators of shallow injection wells shall no	tify the Director
	rty (30) days prior to permanent decommissioning of any shallow injection v	
	shall be accomplished in accordance with procedures approved by the Director.	
<u></u>	similar of accomplished in accordance with procedures approved by the shooter.	(8 10 22)
е-	Inter-Agency Cooperation. The Department may seek the assistance of other	ier government
	g cities and counties, health districts, highway districts, and other departments of s	
	itor and inspect shallow injection wells, where local assistance is needed to prevent	
	quality, and where injection well operation overlaps with water quality concerns o	
	g entities. Assistance is to be negotiated through a memorandum of understand	
	ne local entity, agency, or department, and is subject to the approval of the Director	
1	37 C 37 1 7 3 11	,
02 .	Class V Deep Injection Well Requirements.	(3-18-22)
	and the state of t	(,
a.	Application Requirements.	(3-18-22)
		,
i.	No person shall continue to maintain or use an unauthorized injection well after the	ne effective date
	42-3903, Idaho Code, unless a permit therefor has been issued by the Director. N	
	t under Subsection 070.02 shall be constructed, modified or maintained after the	
	12-3903, Idaho Code, unless a permit therefor has been issued by the Director. N	
	t shall continue to be used after the expiration of the permit issued for such wel	
	ermit therefor has been received by the Director. All applications for permit sh	
furnished by the l		(3-18-22)
rurmsned by the i	onector.	(3-10-22)
ii	Each application for permit to construct, modify or maintain an injection well, as r	equired by these
	companied by a filing fee as specified in Section 42-3905, Idaho Code, payable to	
	es. For the purposes of these rules, all wells or groups of wells associated with	
	dministered as one (1) "well" at the discretion of the Director.	(3-18-22)
1 Toject may be t	diffinistered as one (1) well at the discretion of the Director.	(3-10-22)
h	Application Information Required. An applicant shall submit the following inf	ormation to the
	effection wells to be authorized by permit, unless the Director determines that it	
	and issues a written waiver to the applicant:	(3-18-22)
whole of in part,	and issues a written waiver to the appream.	(3-10-22)
i	Facility name and location;	(3-18-22)
1.	racinty name and rocation,	(3-10-22)
ii	Name, address and phone number of the well operator;	(3-18-22)
П.	realite, address and phone number of the well operator,	(3-10-22)
iii.	Class, subclass and function of the injection well (see Section 035);	(3-18-22)
111.	Class, subclass and function of the injection wen (see Section 055),	(3-10-22)
1	Latitude/longitude or legal description of the well location to the nearest ten (10) a	ana tua ati
IV.	Eatitude/iongitude of regar description of the well location to the nearest ten (10) a	(3-18-22)
		(3-18-22)
	Overnoushin of the well.	(2.10.22)
v.	Ownership of the well;	(3-18-22)
	Countrie which the injection well in least 1	(2.10.22)
V1.	County in which the injection well is located;	(3-18-22)
vii.	Construction information for the well;	(3-18-22)

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viii.	Quantity and general character of the injected fluids;	(3-18-22)
ix.	Status of the well;	(3-18-22)
X.	A topographic map or aerial photograph extending one (1) mile beyond proper	ty boundaries,
depicting:		(3-18-22)
(1)	Location of the injection well and associated facilities described in the application;	(3-18-22)
(2)	Locations of other injection wells;	(3-18-22)
(3)	Approximate drainage area, if applicable;	(3-18-22)
(4)	Hazardous waste facilities, if applicable;	(3-18-22)
(5)	All wells used to withdraw drinking water;	(3-18-22)
(6)	All other wells, springs and surface waters.	(3-18-22)
xi.	Distance and direction to nearest domestic well;	(3-18-22)
xii.	Depth to ground water; and	(3-18-22)
xiii.	Alternative methods of waste disposal.	(3-18-22)
V injection wel	Additional Information. The Director may require the following additional informals to assess potential effects of injection:	tion for Class (3-18-22)
i.	A topographic map showing locations of the following within a two (2) mile	radius of the
(1)	All wells producing water;	(3-18-22)
(2)	All exploratory and test wells;	(3-18-22)
(3)	All other injection wells;	(3-18-22)
(4)	Surface waters (including man-made impoundments, canals and ditches);	(3-18-22)
(5)	Mines and quarries;	(3-18-22)
(6)	Residences;	(3-18-22)
(7)	Roads;	(3-18-22)
(8)	Bedrock outcrops; and	(3-18-22)
(9)	Faults and fractures.	(3-18-22)
ii.	Additional maps or aerial photographs of suitable scale to accurately depict the follo	wing:
		(3-18-22)
(1)	Location and surface elevation of the injection well described in this permit;	(3-18-22)
(2)	Location and identification of all facilities within the property boundaries;	(3-18-22)

(3)	Locations of all wells penetrating the proposed injection zone or within a one-conjection walls	uarter (1/4) mile (3-18-22)
radius of the n	ijeetion wen,	(3-18-22)
	Maps and cross sections depicting all underground sources of drinking water to	
	its within a one-quarter (1/4) mile radius of the injection well, their position relative	
zone and the d	irection of water movement: local geologic structures; regional geologic setting.	(3-18-22)
iii.	A comprehensive report of the following information:	(3-18-22)
	A tabulation of all wells penetrating the proposed injection zone, listing owner,	
operator; wen	identification (permit) number; size, weight, depth and cementing data for all strings	or casing; (3-18-22)
(2)	Description of the quality and quantity of fluids to be injected;	(3-18-22)
(3)	Geologie, hydrogeologie, and physical characteristics of the injection zone and co	nfining beds; (3-18-22)
(4)	Engineering data for the proposed injection well;	(3-18-22)
(4)	Engineering data for the proposed injection wen;	(3-10-22)
(5)	Proposed operating pressure;	(3-18-22)
(6)	A detailed evaluation of alternative disposal practices;	(3-18-22)
(7)	A plan of corrective action for wells penetrating the zone of injection, but not p	ronerly scaled or
decommission		(3-18-22)
(8)	Contingency plans to cope with all shut-ins or well failures to prevent t	he migration of
		(3-18-22)
iv.	Name, address and phone number of person(s) or firm(s) supplying the techn	nical information
	ng the injection well;	(3-18-22)
V.	Proof that the applicant is financially responsible, through a performance	bond or other
	eans, to decommission the injection well in a manner approved by the Director.	
d.	Other Information. The Director may require of any applicant such additional inf	formation as may
	o demonstrate that the proposed or existing injection well will not endanger a USD	
	lete the processing of an application for which additional information has been req	
	Iditional information is supplied. The Director may return any incomplete applications of the latest supplied and the supplied applications of the latest supplied and the supplied applications of the latest supplied applied applie	
process sucn a	pplication until such time as the application is received in complete form.	(3-18-22)
03.	Application Processing.	(3-18-22)
a.	Draft Permit. After all application information is received and evaluated, the Direction	ector will prepare
	or denial, which will include the application for permit, permit conditions or reason	
	ee schedules or monitoring requirements. In preparing the draft permit or denial, t illowing factors:	he Director shall (3-18-22)
i.	The availability of economic and practical alternative means of disposal;	(3-18-22)
ii.	The application of best management practices to the facilities and/or area draining	into the well:
	11 8 1	(3-18-22)
iii.	The availability of economical, practical means of treating or otherwise reducing	ng the amount of
	n the injected fluids;	(3-18-22)

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nterconnected surface water;	(3-18-22
v. The location of the injection well with respect to drinking water supply wells; and	(3-18-22
vi. Compliance with the IDAPA 58.01.11, "Ground Water Quality Rule."	(3-18-22
b. Public Notice. The Director will provide public notice of any draft permit to constru	at maintain a
nodify a Class V injection well by means of a legal notice in a newspaper of general circulation in	
which the well is located. The Director may give additional notice as necessary to adequately inform	
public and governmental agencies. There shall be a period of at least thirty (30) days following publ	
nterested person to submit written comments and to request a fact-finding hearing. The hearing will	
Director if deemed necessary.	(3-18-22
c. Review by the Directors of Other State Agencies. The Directors of other state	e agencies :
letermined by the Director, shall be provided the opportunity to review and comment on draft perm	
shall be submitted to the Director within thirty (30) days of the public or legal notice.	
d. Open-Loop Heat Pump Return Wells (Subclass 5A7).	(3-18-22
a. Open Book Front Lump Reduit Wells (Substants 3717).	(5 10 22
i. An open-loop heat pump return well greater than eighteen (18) feet in depth to be	used solely fo
lisposal of heat pump water at a rate not exceeding fifty (50) gpm does not require a draft permit and	
o a recurring permit cycle, however, registration of the well with the Department and submittal of	
pecified in Section 42-3905, Idaho Code is required. The Director reserves the right to override t	
From the draft permit and permit cycle requirements.	(3-18-22
lisposal of heat pump return water at a rate exceeding fifty (50) gpm is subject to the requirements- 170.02 and 070.03 of these rules.	
v. Fact Finding Hearings. At the Director's discretion, or upon motion of any interes	(3-18-22
v. Fact Finding Hearings. At the Director's discretion, or upon motion of any interest he Director may elect to hold a fact finding hearing. Said hearing will be held at a location in the geo	(3-18-22 sted individua ographical are
e. Fact Finding Hearings. At the Director's discretion, or upon motion of any interes he Director may elect to hold a fact-finding hearing. Said hearing will be held at a location in the geo of the injection well. Notice of said hearing will be provided at least thirty (30) days in advance of	(3-18-22 sted individua ographical are the hearing b
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e. Fact Finding Hearings. At the Director's discretion, or upon motion of any interes the Director may elect to hold a fact finding hearing. Said hearing will be held at a location in the get of the injection well. Notice of said hearing will be provided at least thirty (30) days in advance of egular mail to the applicant and to the person or persons requesting the hearing. Public notice of the learing will be made by means of press release to a newspaper of general circulation in the application. 104. The Director's Action On Draft Permits and Duration Of Approved Permits. Director is to determine whether or not the injection wells and their respective owners or optompliance with the intent of these rules, thus protecting the ground waters of the state against contamination or deterioration of quality and preserving them for diversion to beneficial uses. 1. Consideration. The Director will consider the following factors in taking final appearance of the state against the contemporary of the state against the protection	(3-18-22 (3-18-22 (3-18-22 (3-18-22 (3-18-22 (3-18-22 (3-18-22 (3-18-22 (3-18-22 (3-18-22
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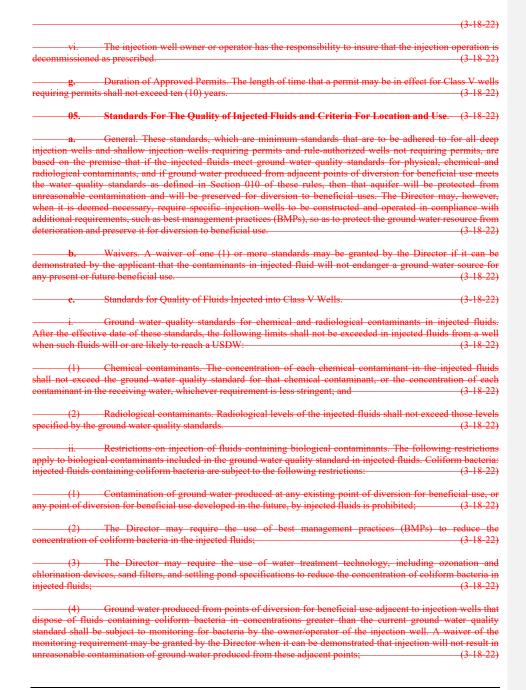
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v.	Compliance with the Idaho Ground Water Quality Plan.	(3-18-22)
<u></u> b.	Issuance of Permit. After considering the draft permit for construction,	modification, or
	and all matters relating thereto, the Director shall issue a permit if the standard	
	1.05 will be met and USDW's will not otherwise be unreasonably affected. If the D	
	and criteria cannot be met or that ground water sources cannot otherwise be	
	ontamination at all times, the draft permit may be denied or a permit may be issued	
	steet ground water sources. The Director's decision shall be in writing and a copy sl	
	the applicant and to all persons who commented in writing on the draft permit	
hearing held to	consider the draft permit.	(3-18-22)
е.	Permit Conditions and Requirements. Any permit issued by the Director shall ea	entain conditions
	ground water sources will be protected from waste, unreasonable contamination, or	
ground water o	quality that could result in violations of the ground water quality standards. In ad-	dition to specific
construction, o	peration, maintenance and monitoring requirements that the Director finds necess	ary, each permit
shall be subject	to the standard conditions and requirements of this rule.	(3-18-22)
d.	Construction Requirements.	(3-18-22)
	W-II dailless as after a second involved solds the constant of any initiation	
nommit shall no	Well drillers or other persons involved with the construction of any injection	
the Director.	t commence construction on the facility until a certified copy of the approved permit	(3-18-22)
the Director.		(3-10-22)
ii	Deep injection wells shall be constructed by a licensed water well driller to c	conform with the
	m Well Construction Standards and the conditions of the permit, except that a drille	
	e construction of a driven mine shaft or a dug hole.	(3-18-22)
——iii.	Shallow injection wells authorized by permit shall be constructed in acco	rdance with the
conditions of the	he permit. Rule authorized shallow injection wells shall be constructed as shown or	
inventory subm		(3-18-22)
	Injection wells shall be constructed to prevent the entrance of any fluids other that	*
permit.		(3-18-22)
v.	Injection wells shall be constructed to prevent waste of artesian fluids or movement	ent of fluids from
one aquifer into		(3-18-22)
		,
vi.	When construction or modification of an injection well has been completed, the construction or modification of an injection well has been completed, the construction or modification of an injection well has been completed, the construction or modification of an injection well has been completed, the construction of an injection well has been completed, the construction of an injection well has been completed, the construction of an injection well has been completed, the construction of an injection well has been completed, the construction of an injection well has been completed, the construction of an injection well has been completed, the construction of an injection well has been completed, the construction of an injection well has been completed, the construction of an injection well and the construction of an injection of an injection well and the construction of an injection of a	wner or operator
shall inform the	e Director of completion on a form provided by the Department.	(3-18-22)
vii	A sampling port shall be provided if the injection well system is enclosed.	(3-18-22)
VII.	A sampling port shall be provided if the injection well system is enclosed.	(5-10-22)
viii.	All new injection wells constructed into alluvial formations shall have a minim	um ten (10) foot
separation from	the bottom of the well and seasonal high ground water.	(3-18-22)
(1)	This still was 11- in stall at inter-ferror at handle and account from a constant distance.	(2.19.22)
(1)	Injection wells installed into fractured basalt are exempt from separation distances	s. (3-18-22)
(2)	The Director may reduce separation distance requirements if the quality of in	jected fluids are
improved throu	igh additional treatment or BMPs.	(3-18-22)
(3)	Heat pump return wells (sub-class 5A7) are exempt from the separation distance	e requirement of
this section.	Treat pump return wens (sub-class 5A7) are exempt from the separation distance	(3-18-22)
ans section.		(J -10-22)
<u>е.</u>	Operational Conditions.	(3-18-22)
	1	()
i.	The injection well shall not be used until the construction, operation a	nd maintenance

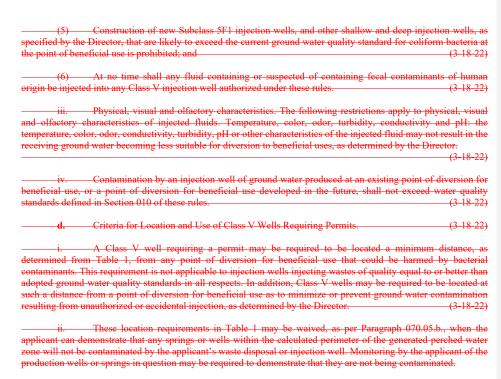
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iii. The injection well owner or operator shall develop approved procedures to detect constructional of perational failure in a timely fashion, and shall have contingency plans to cope with the well failure. (3.18.22 iv. Authorized representatives of the Department shall be allowed to enter, inspect and/or samples (3.18.22 (1)). The injection well and related facilities; (3.18.22 (2)). The owner or operator's records of the injection operation; (3.18.22 (3)). Monitoring instrumentation associated with the injection operation; and (3.18.22 (4)). The injection facilities shall be operated and maintained to achieve compliance with all terms an conditions of this permit. (3.18.22 (1)). Proper operation and maintenance includes effective performance, adequate funding, operated taffing and training, and adequate laboratory and process controls, including appropriate quality assurance recedures; (3.18.22 (2)). If compliance cannot be met, the owner shall take corrective action as determined by the Director terminate injection. (3.18.22 vi. The owner-shall mitigate any adverse effects resulting from non-compliance with the terms and conditions of the permit. (3.18.22 vii. If the injection well was constructed prior to issuance of the permit, the well-shall be brought into compliance with the terms and conditions of the permit in accordance with the schedule of compliance issued by the Director. (3.18.22 viii. The permit shall not convey any property rights.	keeping.	of the permit are met and provisions are made for any required inspection, monitoring	(3-18-22)
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	iccordance wit	n current wen Construction Standards.	(3-18-22)
hall be notified. Decommissioning procedures or other action, as prescribed by the Director, shall be conducted.	v.	Following permanent cessation of use, or where an injection well is not completed	, the Director
	shall be notifie	d. Decommissioning procedures or other action, as prescribed by the Director, shall be co	onducted.

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Determined Radii of Perched Water Zones Based on Maximum Average Weekly Injection Rates (cfs) of Class V Injection Wells *		
Injection (cfs)	Radius of Generated Perched Water Zone (ft)	
0-0.20	800	
0.20 - 0.60	1,400	
0.61 - 1.00	1,800	
1.01 - 2.00	2,500	
2.01 - 3.00	3,000	
3.01 - 4.00	3,500	
4.01 - 5.00	4,000-	
Greater than 5.00	As determined by the Director-	

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injection in an	average water year.	of greatest (3-18-22)
Return).	Standards for the Quality of Fluids Injected by Subclass 5A7 Wells (Open-Loop-	Heat Pump (3-18-22)
Return).		(3-10-22)
i.	The quality of fluids injected by a Subclass 5A7 injection well shall comply with gr	round water
	ds or shall be equal to the quality of the ground water source to the heat pump, which	
stringent.		(3-18-22)
	If the quality of the ground water source does not meet ground water quality sta	ndards the
	must be returned to the formation containing the ground water source.	(3-18-22)
_		
	The temperature of the injected fluids shall not impair the designated beneficial	
receiving groun	id water.	(3-18-22)
iv.	All Rule-authorized Injection Wells shall conform to the ground water quality standard	dards at the
	on and not cause any water quality standards to be violated at any point of beneficial use.	
0.5		
	Monitoring, Record Keeping and Reporting Requirements. The Director neord keeping and reporting by any owner or operator if the Director finds that the well may	
	water source or is injecting a contaminant that could have an unacceptable effect upon the	
		(3-18-22)
a.	Monitoring.	(3-18-22)
i	Any injection authorized by the Director shall be subject to monitoring and reco	ord keening
requirements a	s conditions of the permit. Such conditions may require the installation, use and mai	ntenance of
monitoring equ	ipment or methods. The Director may require where appropriate, but is not limited to, the	following:
		(3-18-22)
(1)	Monitoring of injection pressures and pressures in the annular space between casings;	(3-18-22)
()	8 J 1 1 1 2 1 2 7	()
(2)	Flow rate and volumes;	(3-18-22)
(2)	Analysis of quality of the injected fluids for contaminants that are subject to li	imitation or
	er the conditions of the permit; or contaminants which the Director determines cou	
	ffect on the quality of the ground waters of the state, and which the Director has reason to	
in the injected		
(4)		(3-18-22)
(4)	M 2 1 C - 1-4 d - 1 11 2 1 - 11 12 14 61	
heneficial use i	Monitoring of ground water through special monitoring wells or existing points of d	liversion for
beneficial use i	Monitoring of ground water through special monitoring wells or existing points of d n the zone of influence as determined by the Director;	
beneficial use i		liversion for
	n the zone of influence as determined by the Director; A demonstration of the integrity of the casing, tubing or seal of the injection well.	liversion for (3-18-22) (3-18-22)
——————————————————————————————————————	n the zone of influence as determined by the Director; A demonstration of the integrity of the casing, tubing or seal of the injection well. The frequency of required monitoring shall be specified in the permit when issued, exceptions are considered in the permit when its properties are consi	(3-18-22) (3-18-22)
——————————————————————————————————————	n the zone of influence as determined by the Director; A demonstration of the integrity of the casing, tubing or seal of the injection well.	(3-18-22) (3-18-22)
(5) ii. Director at any	n the zone of influence as determined by the Director; A demonstration of the integrity of the easing, tubing or seal of the injection well. The frequency of required monitoring shall be specified in the permit when issued, excitine may, in writing, require additional monitoring and reporting.	(3-18-22) cept that the (3-18-22)
——————————————————————————————————————	n the zone of influence as determined by the Director; A demonstration of the integrity of the easing, tubing or seal of the injection well. The frequency of required monitoring shall be specified in the permit when issued, excitine may, in writing, require additional monitoring and reporting. All monitoring tests and analysis required by permit conditions shall be performed.	(3-18-22) cept that the (3-18-22)
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nonitoring act	ivity and fluids injected.	(3-18-22
b.	Record Keeping. The permittee shall maintain records of all monitoring activities	s to include:
		•
——i.	Date, time and exact place of sampling;	(3-18-2
ii.	Person or firm performing analysis;	(3-18-2
iii.	Date of analysis, analytical methods used and results of analysis;	(3-18-2
iv.	Calibration and maintenance of all monitoring instruments; and	(3-18-2)
v.	All original tapes, strip charts or other data from continuous or automated monito	oring instruments (3-18-2)
е.	Reporting.	(3-18-2
i.	Monitoring results obtained by the permittee pursuant to the monitoring requir	ements prescribe
y the Director	shall be reported to the Director as required by permit conditions.	(3-18-2)
omestic water	The Director shall be notified in writing by the permittee within five (5) days at the terms and conditions of the permit. If the injection activity endangers human has supply, use of the injection well shall be immediately discontinued and the owner of the Director. Notification shall contain the following information:	alth or a public
(1)	A description of the violation and its cause;	(3-18-2
(2)	The duration of the violation, including dates and times; if not corrected on the anticipated time of correction; and	r use of the we
(3)	Steps being taken to reduce, eliminate and prevent recurrence of the injection.	(3-18-2
iii.	Where the owner or operator becomes aware of failure to submit any relevant f	acts in any pern
pplication or	report to the Director, that person shall promptly submit such facts or information.	(3-18-2
iv.	The permittee shall furnish the Director, within a time specified by the Directo ctor may request to determine compliance with the permit.	r, any informatio
inch the Dire		•
ertified.	All applications for permits, notices and reports submitted to the Director sh	all be signed ar (3-18-2)
	The Director shall be notified in writing of planned physical alterations or additional physical alterations or additional physical alterations are additionally alternative.	•
erated to the p	ermitted injection well operation.	(3-18-2)
vii.	Additional information to be reported to the Director in writing:	(3-18-2)
(1)	Transfer of ownership;	(3-18-2)
(2)	Any change in operational status not previously reported;	(3-18-2)
(3)	Any anticipated noncompliance; and	(3-18-2
	Reports of progress toward meeting the requirements of any compliance sch	
ssigned to this	s permit.	(3-18-22

07. Permit Assignable. Permits may be assignable to a new owner or operator of an injection well if the new owner or operator, within thirty (30) days of the change, notifies the Director of such change. The new owner or operator shall be responsible for complying with the terms and conditions of the permit from the time that such change takes place.

(3-18-22)

071. -- 999. (RESERVED)

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Page 21: [1] Commented [BE20] Boe, Erik 7/19/2023 12:35:00 PM

City of Middleton (Comment, 6/13/23) requested that IDWR modify this sentence to include "untreated fluid" in place of "fluid" or remove in its entirety.

IDWR could:

- (a) update the first sentence to include "untreated fluid" for clarity; could have the negative affect of inferring that treated fluid with fecal contamination is allowed to be injected. However, Rule 55.06a and 55.06b effectively note treatment requirements.
- (b) Clarify that at no time shall any fluid containing one (1) or more colony forming units (CFU) or most probable number (MPN) as determined by approved EPA lab analysis method, be injected into any Class V well.
- (c) Remove in its entirety.

Because the intent of the rule is to prevent untreated wastewater exposed to human fecal contamination from being injected in a Class V well, propose that option (a) is best. Since Rule 55.06a and 55.06b regulate treated fluids. Also removed the ambiguous phrase "or suspected of containing."

Page 21: [2] Commented [EB21] Boe, Erik 7/24/2023 8:32:00 AM

Idaho Conservation League (Comment, 6/22/23) requested that IDWR have legal review this rule to determine the legality of injecting treated/untreated fecal contaminants and update proposed language as necessary.

IDWR is having legal review this rule; both the original and proposed.

Page 21: [3] Commented [BE22] Boe, Erik 7/19/2023 2:16:00 PM

City of Middleton (Comment, 6/13/23) requested that IDWR remove the phrase "limited to saturation of" and replace with "discharge into" since land application will occur during non-irrigation season, and additionally infiltration will occur.

IDWR agrees with the recommendation and updated accordingly.

Page 21: [4] Commented [BE23] Boe, Erik 5/22/2023 8:25:00 AM

City of Middleton (Comment, 5/1/23) requested that IDWR consider exemption for variations of land application (irrigation) methods regulated by IDAPA 58.01.17 (Recycled Water Rules).

*Added language to address concerns from the City of Middleton.

Page 21: [5] Commented [EB24] Boe, Erik 7/24/2023 8:28:00 AM

City of Boise (Comment, 6/19/24)

Requested that IDWR (1) add definition of "fecal contaminants" and (2) remove "suspected of contaminating" and "of human origin" from the rule.

- (1) Could not find referenced EPA definition. Can the City provide a reference.
- (2) Removed the phrase "suspected of containing" due to concerns. Leaving the phrase "of human origin.".

Page 21: [6] Commented [EB25] Boe, Erik 7/20/2023 12:43:00 PM

Idaho Conservation League (Comment, 6/22/23) requested the proposed language to avoid ambiguity.

IDWR added the clarifying language with minor modification.

Page 21: [7] Commented [EB26] Boe, Erik 7/24/2023 8:47:00 AM

City of Boise (Comment, 6/19/23) requested that IDWR remove this phrase and instead use "Additionally, injected recycled municipal wastewater or recycled industrial wastewater shall not degrade ground water quality as determined by IDAPA 58.01.11."

EPA Drinking Water Standards along with 58.01.11 were designed for water obtained from conventional, relatively uncontaminated sources of freshwater. Recycled municipal and industrial wastewater is considered an atypical source of water since unlike most natural groundwater or surface water sources the quality is highly variable; likely containing contaminants of emerging concern (CEC) that are difficult to regulate. CECs include proprietary industrial chemicals, unidentified halogenated compounds, pharmaceuticals, synthetic hormones, and certain pathogens not reflected in current standards. 58.01.11 alone would not allow for regulation requiring necessary advanced treatment options such as those used for IPR and DPR; standards that are being developed by other states interested in injecting recycled wastewater into USDWs who recognize the potential risks. Modified the language consistent to ICL's recommendations to incorporate measurable/data driven methods.

^{*}Note that legal is reviewing the original and current version of this rule.