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

000. Section		L AUTHORITY. 3A, and 42-3913 through 42-3915, Idaho Code.	()
001.	SCOPE	E.		
		These rules establish minimum standards and criteria for construction and abandonment of a low injection wells in the state of Idaho, except Indian lands, and the injection of fluids ruction and use of Class I, III, IV, or VI injection wells are prohibited by these rules.		
		Rule Coverage . In the event that a portion of these rules is less stringent than the minimization wells as established by Federal regulations (40 CFR Parts 141, 144, 145, and 14 ral requirement will be used to regulate the injection well.		
002	009.	(RESERVED)		
010.	DEFIN	ITIONS.		
		Agricultural Runoff Waste, Excess surface water from agricultural fields generated duration, including runoff of irrigation tail water, as well as natural drainage resulting by by by the surface of the		
mainta	02. in an injec	Applicant . Any owner or operator submitting an application for permit to construct, motion well to the Director.	dify (or)
revisio	03.	Application . The standard Department forms for applying for a permit, including any addifications to the forms.	dition (ıs,)
produc	04. etion of wa	Aquifer. Any geologic formation(s) that yields water to a well in sufficient quantities to mater from the formation feasible for beneficial use.	ake tl	ne)
		Beneficial Use . One (1) or more of the recognized beneficial uses of water including sestic, municipal, irrigation, hydropower generation, industrial, commercial, recreation, rage, stockwatering and fish propagation.		
	06. ve than or on well op	Best Management Practice (BMP). A practice or combination of practices that are ther techniques at preventing or reducing contamination of ground water and surface we teration.		
	07.	Board. The Idaho Water Resource Board.	()
	08. apse of the	Casing . The permanent conduit installed in a well to provide physical stabilization, prevent e borehole, maintain the well opening and serve as a solid inner barrier to allow for the instal.		
which	09.	Cesspool . An injection well that receives untreated sanitary waste containing human excress has an open bottom and/or perforated sides.	eta, ar (ıd)

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forming, rod-shaped bacteria that either ferment lactose broth with gas formation within forty-eight (48) hours at

Coliform Bacteria. All of the aerobic and facultative anaerobic, gram-negative, non-spore

		es Celsius (35C), or produce a dark colony with a metallic sheen within twenty-four (24) ho dium containing lactose.	urs (on)
adjacent	11. to one (1	Confining Bed . A body of impermeable or distinctly less permeable material stratigraph or more aquifers.	hical	ly)
	12.	Construct. To create a new injection well or to convert any structure into an injection well.	()
	13.	Contaminant. Any physical, chemical, biological, or radiological substance or matter.	()
biologic	14. al, or rad	Contamination . The introduction into the natural ground water of any physical, che ioactive material that may:	emica (al,)
Water Q	a. Juality Ru	Cause a violation of Idaho Ground Water Quality Standards found in IDAPA 58.01.11 "Cale" or the federal drinking water quality standards, whichever is more stringent; or	irour	nd)
	b.	Adversely affect the health of the public; or	()
		Adversely affect a designated or beneficial use of the State's ground water. Contamination of heated or cooled water into the subsurface that will alter the ground water temporal ground water less suitable for beneficial use.		
	15.	Conventional Mine. An open pit or underground excavation for the production of minerals.	()
will not: a. Produ b. Serve	ce or acc	Decommission (Abandon) . Any well that has been permanently removed from service and cordance with these rules so as to meet the intent of these rules. A properly decommissione cept fluids; duit for the movement of contaminants inside or outside the well casing; or rement of surface or ground water into unsaturated zones, into another aquifer, or between aqui	ed we	ell))
	17.	DEQ . The Idaho Department of Environmental Quality.	()
below la	18. and surface	Deep Injection Well . An injection well which is more than eighteen (18) feet in vertical ce.	dep	th)
	19.	Department. The Idaho Department of Water Resources.	()
	20.	Director . The Director of the Idaho Department of Water Resources.	()
	21.	Disposal Well. A well used for the disposal of waste into a subsurface stratum.	()
monitor notice o	ing requi f intent to ce, or ter	Draft Permit . A prepared document indicating the Director's tentative decision to issue or and reissue, terminate, or reissue a "permit." Permit conditions, compliance schedule rements are typically included in a "draft permit". A notice of intent to terminate a permit, o deny a permit are types of "draft permits." A denial of a request for modification, revocation mination is not a "draft permit."	s, ard, and on ar	nd a nd)
	23.	Drilling Fluid. A heavy suspension used in drilling an "injection well," introduced down the	ie dr	ill

24. Exempted Aquifer. An "aquifer" or its portion that meets the criteria in the definition of USDW but which has been recategorized as "other" according to the procedures in IDAPA 58.01.11 "Ground Water Quality

pipe and through the drill bit.

Rule".		()
25. conditions in v	Experimental Technology . A technology which has not been proven feasible und which it is being tested.	ler tl	1e)
26. gaseous or any	Fluid . Any material or substance which flows or moves, whether in a semisolid, liquid, so other form or state.	sludg (e,
27.	Ground Water. Water below the land surface in a zone of saturation.	()
28. Rule," Section	Ground Water Quality Standards . Standards found in IDAPA 58.01.11, "Ground Water Con 200.	Quali (ty)
29. Hazardous Wa	Hazardous Waste. Any substance defined by IDAPA 58.01.05, "Rules and Standaraste."	ds f	or)
30. Country as:	Indian Lands. "Indian Country" as defined in 18 U.S.C. 1151. That section defines	India (an)
a. government, reservation;	All land within the limits of any Indian reservation under the jurisdiction of the United notwithstanding the issuance of any patent, and, including rights-of-way running through		
b. original or sub	All dependent Indian communities within the borders of the United States whether with sequently acquired territory thereof, and whether within or without the limits of a State; and	nin tl (he)
c. way running the	All Indian allotments, the Indian titles to which have not been extinguished, including righrough the same.	hts-o	f-)
domestic septi	Individual Subsurface Sewage Disposal System. For the purpose of these rules, any standard sposal system which injects sanitary waste from single family domestic septic systems, of consistency which are used solely for the disposal of sanitary waste and have the capacity to serve the solely people a day.	r no	n-
32. wastewater.	Industrial Wastewater. All wastewater, treated or untreated, that is not defined as mur	nicip (al)
33. modified by m	Improved Sinkhole. A naturally occurring crevice found in geologic settings that have nan for the purpose of directing and emplacing fluids into the subsurface.	e bed	en)
34.	Injection. The subsurface emplacement of fluids through an injection well.	()
35. the following	Injection Well . Any feature that is operated to allow injection which also meets at least one criteria:	e(1)	of)
a.	A bored, or driven shaft whose depth is greater than the largest surface dimension;	()
b.	A dug hole whose depth is greater than the largest surface dimension;	()
c.	An improved sinkhole; or	()
d.	A subsurface fluid distribution system.	()

36. Large Capacity Cesspools. Any cesspool used by a multiple dwelling, community or regional system for the disposal of sanitary wastes (for example: a duplex or an apartment building) or any cesspool used by

or intended to be church).	e used by twenty (20) or more people per day (for example: a rest stop, campground, restaurar (nt or
37. operations which	Modify . To alter the construction of an injection well, but does not include cleaning or redril neither deepen nor increase the dimensions of the well.	lling)
	Motor Vehicle Waste Disposal Wells. Injection wells that receive or have received fluids f maintenance activities, such as an auto body repair shop, automotive repair shop, new and used alty repair shop (transmission and muffler repair shop), or any facility that does any vehicular re	d car
40.	Municipal Wastewater. Wastewater containing sewage and associated solids, whether treate ipal wastewater, also known as domestic wastewater, may contain industrial wastewater. Open-Loop Heat Pump Return Wells. Injection wells that receive surface water or ground wasted through a heat exchange system for cooling or heating purposes.)
41. the UIC program	Owner or Operator. The owner or operator of any facility or activity subject to regulation un.	nder)
42.	Permit . An authorization, license, or equivalent control document issued by the Department.)
43. water is available	Point of Beneficial Use. The top or surface of a USDW, directly below an injection well, we for a beneficial use.	here)
44. water is taken und	Point of Diversion for Beneficial Use . Location of a producing well or spring where greder control and diverted for a beneficial use.	ound)
	Point of Injection . The last accessible sampling point prior to waste being released into onment through an injection well. For example, the point of injection for a Class V septic systibution box. For a drywell, it is likely to be the well bore itself.	
46. Radioactive geole	Radioactive Material. Any material, solid, liquid or gas which emits radiation spontaneous ogic materials occurring in their natural state are not included.	ısly.)
47. exceed those liste	Radioactive Waste. Any fluid which contains radioactive material in concentrations we ad in 10 CFR part 20, appendix B, table II, column 2.	hich)
48. rules.	Recycled Water. Water treated by a wastewater treatment system and used according to the	hese)
49. system is typicall	Septic System . An injection well that is used to inject sanitary waste below the surface. A set by comprised of a septic tank and subsurface fluid distribution system or disposal system.	eptic)
50. vertical depth bel	Shallow Injection Well . An injection well which is less than or equal to eighteen (18) feed low land surface.	et in)
	Subsidence . The lowering of the natural land surface in response to: Earth movements; lowe; removal of underlying supporting material by mining or solution of solids, either artificially uses; compaction due to wetting; oxidation of organic matter in soils; or added load on the	y or
52. similar mechanis	Subsurface Fluid Distribution System . An assemblage of perforated pipes, drain tiles, or ome intended to distribute fluids below the surface of the ground.	other

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UIC. The Underground Injection Control program under Part C of the Safe Drinking Water Act,

53.

including an "ap	proved State program."	()
54.	Underground Source of Drinking Water (USDW). An aquifer or its portion:	()
a.	Which:	()
i.	Supplies any public water system; or	()
ii.	Contains a sufficient quantity of ground water to supply a public water system; or	()
(1)	Currently supplies drinking water for human consumption; or	()
(2)	Contains fewer than ten thousand (10,000) mg/l total dissolved solids; and	()
b.	Which is not an exempted aquifer.	()
any ground war biologically, phy pollutants; and so		ner wi micall dustri (th y, al)
56. Environmental (Quality Rule."	Water Quality Standards. Refers to those standards found in Idaho Departm Quality Rules, IDAPA 58.01.02, "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.02, "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.02, "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.02, "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.02," "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.02," "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.02," "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.02," "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.02," "Water Quality Standards" and IDAPA 58.01.11, "Ground Rules, IDAPA 58.01.11," "Ground Rules, IDAPA 58.01," "Ground	d Wat	
011 019.	(RESERVED)		
020. CLASS	SIFICATION OF INJECTION WELLS.		
020. CLASS 01. follows:	SIFICATION OF INJECTION WELLS. Classification of Injection Wells. For the purposes of these rules, injection wells are class	sified	as)
01.		sified (as)
o1. follows: a. i. management face	Classification of Injection Wells. For the purposes of these rules, injection wells are class	((s was) ate
o1. follows: i. management fac (1/4) mile of the ii.	Classification of Injection Wells. For the purposes of these rules, injection wells are class Class I: Wells used by generators of hazardous waste or owners or operators of hazardous ilities to inject hazardous waste beneath the lowermost formation containing, within one	(s was -quart) ste
i. management fac (1/4) mile of the ii. containing, withi	Classification of Injection Wells. For the purposes of these rules, injection wells are class Class I: Wells used by generators of hazardous waste or owners or operators of hazardous ilities to inject hazardous waste beneath the lowermost formation containing, within one well bore, an underground source of drinking water. Other industrial and municipal disposal wells which inject fluids beneath the lowermost for	((ss was -quart (rmatio) ste er) on)
i. management fac (1/4) mile of the ii. containing, withi	Classification of Injection Wells. For the purposes of these rules, injection wells are class Class I: Wells used by generators of hazardous waste or owners or operators of hazardous ilities to inject hazardous waste beneath the lowermost formation containing, within one well bore, an underground source of drinking water. Other industrial and municipal disposal wells which inject fluids beneath the lowermost for one-quarter (1/4) mile of the well bore, an underground source of drinking water. Radioactive waste disposal wells which inject fluids below the lowermost formation contains.	((ss was -quart (rmatio) ste er) on)
i. management fac (1/4) mile of the ii. containing, withi iii. underground sou b. i. conventional oil stations, or com	Class I: Wells used by generators of hazardous waste or owners or operators of hazardous ilities to inject hazardous waste beneath the lowermost formation containing, within one well bore, an underground source of drinking water. Other industrial and municipal disposal wells which inject fluids beneath the lowermost form one-quarter (1/4) mile of the well bore, an underground source of drinking water. Radioactive waste disposal wells which inject fluids below the lowermost formation containing water within one-quarter (1/4) mile of the well bore.	((s was -quart (rmatic (ining a (cons, ydratic ters a) attement on) or on
i. management fac (1/4) mile of the ii. containing, withi iii. underground sou b. i. conventional oil stations, or com	Classification of Injection Wells. For the purposes of these rules, injection wells are class Class I: Wells used by generators of hazardous waste or owners or operators of hazardous ilities to inject hazardous waste beneath the lowermost formation containing, within one well bore, an underground source of drinking water. Other industrial and municipal disposal wells which inject fluids beneath the lowermost for one-quarter (1/4) mile of the well bore, an underground source of drinking water. Radioactive waste disposal wells which inject fluids below the lowermost formation contains of drinking water within one-quarter (1/4) mile of the well bore. Class II. Wells used to inject fluids: Which are brought to the surface in connection with natural gas storage operation natural gas production and may be commingled with waste waters from gas plants, dehappressor stations which are an integral part of production operations, unless those wasters.	((s was -quart (rmatic (ining a (cons, ydratic ters a) attement on) or on re

	c.	Class III. Wells used to inject fluids for extraction of minerals including:	()
	i.	Mining of sulfur by the Frasch process;	()
		In situ production of uranium or other metals; this category includes only in-situ production have not been conventionally mined. Solution mining of conventional mines such as ded in Class V.		
	iii.	Solution mining of salts or potash.	()
	d.	Class IV:	()
hazardo	us waste	Wells used by generators of hazardous waste or of radioactive waste, by owners or operarmanagement facilities, or by owners or operators of radioactive waste disposal sites to disport radioactive waste into or above a formation which within one-quarter (1/4) mile of the reground source of drinking water.	ose o	of
035.01.0	d.i. or 035	Wells used by generators of hazardous waste or owners or operators of hazardous lities to dispose of hazardous waste, which cannot be classified under Subparagraphs 035.01.5.01.d.ii. of this rule (e.g., wells used to dispose of hazardous waste into or above a formation for which has been exempted pursuant to Section 025 of these rules).	.a.i. o	or
	e.	Class V All injection wells not included in Classes I, II, III, IV, or VI.	()
	f.	Class VI.	()
beneath	i. the lower	Wells that are not experimental in nature that are used for geologic sequestration of carbon or rmost formation containing a USDW; or	lioxio (le)
injection	ii. n depth re	Wells used for geologic sequestration of carbon dioxide that have been granted a waiver equirements pursuant to requirements at 40 CFR Section146.95; or	of th	ne)
		Wells used for geologic sequestration of carbon dioxide that have received an expansion existing Class II enhanced oil recovery or enhanced gas recovery aquifer exemption pursuese rules.		
	02.	Subclassification. Class V wells are subclassified as follows:	()
	a.	5A5-Electric Power Generation.	()
	b.	5A6-Geothermal Heat.	()
	c.	5A7-Heat Pump Return.	()
	d.	5A8-Aquaculture Return Flow.	()
	e.	5A19-Cooling Water Return.	()
	f.	5B22-Saline Water Intrusion Barrier.	()
	g.	5D2-Storm Runoff.	()
	h.	5D3-Improved Sinkholes.	()
	i.	5D4-Industrial Storm Runoff.	()

	j.	5F1-Agricultural Runoff Waste.	()
	k.	5G30-Special Drainage Water.	()
	1.	5N24-Radioactive Waste Disposal ¹ .	()
	m.	5R21-Aquifer Recharge.	()
	n.	5S23-Subsidence Control.	()
	0.	5W9-Untreated Sewage ¹ .	()
	p.	5W10-Large Capacity Cesspools ¹ .	()
	q.	5W11-Septic Systems (General).	()
	r.	5W12-Waste Water Treatment Plant Effluent.	()
	s.	5W20-Industrial Process Water.	()
	t.	5W31-Septic Systems (Well Disposal).	()
	u.	5W32-Septic System (Drainfield).	()
	v.	5X13-Mine Tailings Backfill.	()
	w.	5X14-Solution Mining.	()
	х.	5X15-In-Situ Fossil Fuel Recovery.	()
	у.	5X16-Spent Brine Return Flow.	()
	Z.	5X25-Experimental Technology.	()
	aa.	5X26-Aquifer Remediation.	()
	bb.	5X27-Other Wells.	()
	cc.	5X28-Motor Vehicle Waste Disposal Wells ¹ .	()
	dd.	5X29-Abandoned Water Wells.	()
	¹ The co	onstruction and operation of wells in these subclasses is currently prohibited in Idaho.		
021 0	024.	(RESERVED)		
025.	AUTHO	ORIZATIONS, PROHIBITIONS AND EXEMPTIONS.		
		Authorizations . Construction and use of Class V deep injection wells may be authorized by the Director in accordance with these rules and the "Well Construction Standards 37.03.09 which are authorized under Section 42-238, Idaho Code.		
	02.	Prohibitions.	()
11	a.	These rules prohibit the permitting, construction, or use of any Class I, III, IV, or VI in	jectio	on

well.

- **b.** No owner or operator shall construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows or causes the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary or secondary drinking water regulation, under IDAPA 58.01.11, "Ground Water Quality Rule," Section 200 or may otherwise adversely affect the health of persons. The applicant for a permit shall have the burden of showing that the injection of any fluid does not present an imminent and substantial endangerment to the health of persons. ()
- **c.** Notwithstanding any other provision of this section, the Director may take emergency action upon receipt of information that a contaminant which is present in or likely to enter a public water system or a USDW may present an imminent and substantial endangerment to the health of persons.
- **d.** Large capacity cesspools, motor vehicle waste disposal wells, radioactive waste disposal wells, and untreated sewage disposal wells are prohibited. All prohibited wells described in this section must be decommissioned in accordance with these rules.
 - **e.** Construction of new Subclass 5F1 injection wells is prohibited.
- f. These rules do not prohibit the injection of contaminated ground water into the same formation from which it was drawn provided the contaminated ground water is treated and if such injection is approved by EPA, pursuant to provisions for cleanup of releases under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. 9601–9657, or pursuant to requirements and provisions under the Resource Conservation and Recovery Act, 42 U.S.C. 6901 through 6987.

03. Exemptions.

- **a.** Construction and use of Class V shallow injection wells are authorized by these rules without permit provided that:
 - i. Required inventory information is submitted to the Director in accordance with these rules.
- ii. Use of a shallow injection well shall not result in unreasonable contamination of a USDW or cause a violation of water quality standards that would affect a beneficial use.
- **b.** Individual subsurface sewage disposal system wellsare exempt from these Rules but subject to the permitting and fee requirements of IDAPA 58.01.03 "Individual/Subsurface Sewage Disposal Rules," Title 39, Chapter 1 and Title 39, Chapter 36, Idaho Code.
- c. State or local government entities are exempt from the permit requirements of these rules for wells associated with highway and street construction and maintenance projects, but shall submit shallow injection well inventory information for said wells and shall comply with all other requirements of these rules.
- d. Mine tailings backfill (5X13) wells are authorized by rule as part of mining operations. They are therefore exempt from the ground water quality standards and permitting requirements of these rules provided that their use is limited to the injection of mine tailings only. The use of any 5X13 well(s) shall not result in water quality standards at points of diversion for beneficial use that exceed or otherwise affect a beneficial use. Should water quality standards be exceeded or beneficial uses be affected, the Director may order the wells to be put under the permit requirements of these rules, or the wells may be required to be remediated or closed. As a condition of their use, the Director may require the construction and sampling of monitoring wells by the owner/operator. 5X13 wells are subject to the inventory requirements described in these Rules.
- **04.** Variance of Methods. The Director may approve the use of a different testing method or technology if it is no less protective of human health and the environment, will not allow the migration of injected fluids into a USDW, meets the intent of the rule, and yields information or data consistent with the original method or technology required. A request for review by the Director must be submitted in writing by the applicant, permit holder, or operator and be included with all pertinent information necessary for the Director to evaluate the proposed

)26 (029.	(RESERVED)		
30.	CLASS	V SHALLOW INJECTION WELL REQUIREMENTS		
Shallow constructions nas not	Injection for or previous	Authorization. All owners or operators of shallow Class V injection wells, including important aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to substitute that 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 wells been inventoried with the Department. State or local government entities shall submory information for wells associated with highway and street construction and maintenance pro-	mitent of the control	a of at he
	a.	Facility name and location; and)
	b.	County in which the injection well(s) is (are) located; and)
	c.	Ownership of the well(s); and)
	d.	Name, address and phone number of legal contact; and)
	e.	Type or function of the well(s); and)
	f.	Number of wells of each type; and)
	g.	Operational status of the well(s).)
Departn	nent of W	Inventory Fees. For shallow injection wells constructed after July 1, 1997, the Shallow Injection shall be accompanied by a fee as specified in Section 42-3905(2), Idaho Code, payable Vater Resources. State or local government entities are exempt from filing fees for shallow injection with highway and street construction and maintenance.	to tl	he
Directo		Permit Requirements. Where a Class V shallow injection well is owned or operated by an e or local government agency involved in highway and street construction and maintenance thorize continued operation of the well through a permit that specifies the terms and condition.	e, tl	ne
		Decommission. Owners or operators of shallow injection wells shall notify the Director no lays prior to permanent decommissioning of any shallow injection well. Decommissioning shaccordance with procedures approved by the Director.		
nonitor	ment ager , and in	Inter-Agency Cooperation. The Department may seek the assistance of other state or noise or entities, including cities, counties, health districts, and highway districts to inventispect shallow injection wells. Assistance is to be negotiated through a memorandure tween the Department and the state or local entity subject to the Director's approval.	ıtor	y,
		Cessation of Injection Well Activity. The Director shall require immediate cessation or injection well activity that causes or may cause unreasonable contamination of a USDW and water quality standards.		
)31 (034.	(RESERVED)		
)35.		CLASS V INJECTION WELL REQUIREMENTS		
naintai	01.	Permit Required for Class V Deep Injection Wells. No person shall construct, mo		-

testing method or technology.

fee as specified	completed and filed with the director on a form approved by the department accompanied by d in Section 42-3905(1), Idaho Code. Applications proposing to inject recycled municipal was adustrial wastewater must also adhere to IDAPA 58.01.17 (Recycled Water Rules) per	stewa	ater
wastewater un with the direct 3905(1), Idaho other shallow i of a USDW or to inject recycle.	Permit Requirements for Class V Shallow Injection Wells. No person shall construct, see a Class V shallow injection well to inject recycled municipal wastewater or recycled in less a permit has been issued by the Director. An application for permit shall be completed a tor on a form approved by the department accompanied by a filing fee as specified in Sector Code. An application for permit may be required for the construction, modification, or us injection wells if the Director determines that the injection could result in unreasonable contain cause a violation of water quality standards that would affect a beneficial use. Applications procled municipal wastewater or recycled industrial wastewater must also adhere to IDAPA 5 ter Rules) permitting requirements.	ndustrand fition of the second	rial fled 42- all ion ing
	Application Information Required. An applicant shall submit the following information linjection wells to be authorized by permit, unless the Director determines that it is not next, and issues a written waiver to the applicant:		
a.	Facility name and location;	()
b.	Name, address and phone number of the well operator;	()
c.	Class, subclass and function of the injection well (see Section 035);	()
d.	Latitude/longitude or legal description of the well location to the nearest ten (10) acre tract;		`
		()
e.	Ownership of the well;	()
f.	County in which the injection well is located;	()
g.	Construction information for the well;	()
h.	Describe the quality, composition, and quantity of the injected fluids;	()
i.	Status of the well;	()
j. depicting:	A topographic map or aerial photograph extending one (1) mile beyond property bou	ndari (ies,
(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.	()
i.	Distance and direction to nearest domestic well;	()
ii.	Depth to ground water; and	()

iii.	Alternative methods of waste disposal.	()
complete the pro- additional informapplication until	Additional Information. The Director may require an applicant to submit additional information that the proposed or existing injection well will not endanger a USDW. The Director woccessing of an application for which additional information has been requested until such time mation is supplied. The Director may return any incomplete application and will not process such time as the application is received in complete form. Additional information may include the following items:	vill n e as t ss su	ot he ch
a. injection well:	A topographic map showing locations of the following within a two (2) mile radius	of the	he)
(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	()
(9)	Faults and fractures.	()
b.	Additional maps or aerial photographs of suitable scale to accurately depict the following:	()
(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 inje	Locations of all wells penetrating the proposed injection zone or within a one-quarter (1/4 ection well;	4) mi (ile)
	Maps and cross sections depicting all underground sources of drinking water to include as within a one-quarter (1/4) mile radius of the injection well, their position relative to the injection of water movement: local geologic structures; regional geologic setting.		
c.	A comprehensive report of the following information:	()
(1)	A tabulation of all wells penetrating the proposed injection zone, listing owner, lease hold	der a	nd
operator; well id	entification (permit) number; size, weight, depth and cementing data for all strings of casing;	()
(2)	Description of the quality, composition, and quantity of fluids to be injected;	()
(3) and confining be	Description of geologic, hydrogeologic, and geochemical conditions present in the injection eds; methods for determining geochemical conditions shall be approved by the Director;	on zo	ne
		()

(4)	Engineering data for the proposed injection well;	()
(5)	Proposed operating pressure;	()
(6)	A detailed evaluation of alternative disposal practices;	()
(7) decommissi		perly sealed	or)
(8) unacceptabl	Contingency plans to cope with all shut-ins or well failures to prevent the e fluids into underground sources of drinking waters.	e migration (of)
d. and/or desig	Name, address and phone number of person(s) or firm(s) supplying the technic ming the injection well;	cal informat	ion)
e. appropriate	Proof that the applicant is financially responsible, through a performance means, to decommission the injection well in a manner approved by the Director.	bond or of	her)
036 049.	(RESERVED)		
050. CI	ASS V INJECTION WELL REQUIREMENTS – APPLICATION PROCESSING		
reasons for	Draft Permit Preparation. After all application information is received and ll prepare a draft permit or denial, which will include the application for permit, permit denial, and any compliance schedules or monitoring requirements. In preparing the Director shall consider the following factors:	it conditions	or
a.	The availability of economic and practical alternative means of disposal;	()
b.	The application of best management practices to the facilities and/or area draining in	nto the well;)
c. contaminant	The availability of economical, practical means of treating or otherwise reducing in the injected fluids;	the amount	of)
d.	The quality of the receiving ground water, its category, its present and future betted surface water;	neficial uses	or)
e.	The location of the injection well with respect to drinking water supply wells; and	()
f.	Compliance with the IDAPA 58.01.11, "Ground Water Quality Rule."	()
g.	The benefit to the State of Idaho.	()
which the w public and g	Public Notice. The Director will provide public notice of any draft permit to conclude Class V injection well by means of a legal notice in a newspaper of general circulation is rell is located. The Director may give additional notice as necessary to adequately inform governmental agencies. There shall be a period of at least thirty (30) days following puberson to submit written comments.	in the county n the interes	in ted
	Review by the Directors of Other State Agencies. The Directors of other states the Director, shall be given an opportunity to review and comment on draft permits. On the Director within thirty (30) days of public notice.		

Open-Loop Heat Pump Return Wells (Subclass 5A7). The Director may waive the draft permit

04.

	rring permit cycle requirements of these rules for any application proposing use of an open-loop heat purell greater than eighteen (18) feet in depth solely for disposal of heat pump water at a rate not exceeding gpm.	
the Directof the injurgular m	Pact-Finding Hearings. At the Director's discretion, or upon motion of any interested individuator may elect to hold a fact-finding hearing. Said hearing will be held at a location in the geographical argention well. Notice of said hearing will be provided at least thirty (30) days in advance of the hearing hail to the applicant and to the person or persons requesting the hearing. Public notice of the fact-findinal be made in a newspaper of general circulation in the county where the injection well is located. (rea by
	O6. Draft Permit Final Review and Consideration. The Director will consider the following factoring final action on draft permits:	ors)
:	a. The potential for unreasonable contamination or deterioration of ground water quality:	
1	b. The likelihood and consequences of the injection well system failing; ()
•	c. The long-term effects of such disposal or storage; ()
public;	d. The recommendations and related justifications of the Directors of other state agencies and to	he)
	e. The potential for violation of ground water quality standards at the point of injection or the pocial use; and	int)
	f. Compliance with the Idaho Ground Water Quality Plan. ()
maintena described standards contamin protect g applicant draft peri		ria the ble to the the
condition standards	O8. Permit Conditions and Requirements. Any permit issued by the Director shall contains to protect ground water sources from waste, contamination, or deterioration of ground water quals. In addition to specific construction, operation, maintenance, monitoring, and reporting requirements that tor finds necessary, each permit shall be subject to the standard conditions and requirements of this rule.	ity hat
regular m	O9. Permit Decision Notice. The Director's decision shall be in writing and a copy shall be mailed nail to the applicant and all persons who commented in writing on the draft permit or appeared at a heart possider the draft permit.	
051.	(RESERVED)	
052.	CLASS V INJECTION WELL CONSTRUCTION AND OPERATION REQUIREMENTS ()
	O1. Construction Requirements. The following requirements apply to all Class V injection we do by permit unless noted differently:	ells)
current V condition	a. Deep injection wells shall be constructed by an Idaho licensed well driller to conform with a Well Construction Standards (IDAPA 37.03.09), the conditions of the well construction permit, and a soft the UIC permit issued pursuant to these rules, except that a driller's license is not required for a cition of a driven mine shaft or a dug hole.	the

commence const	ruction of the injection well until a certified copy of the approved injection well permit is of		
from the Directo	* * * * * * * * * * * * * * * * * * * *	()
c. authorized shallo	Injection wells shall be constructed in accordance with the conditions of the permit. ow injection wells shall be constructed as shown or described in the inventory submittal.	Rule))
d . permit.	Injection wells shall be constructed to prevent the entrance of any fluids other than specified	d in th	ie)
e. from one aquifer	Deep injection wells shall be constructed to prevent waste of artesian fluids or movement or into another.	f fluid (ls)
f. shall inform the	When construction or modification of an injection well has been completed, the owner or o Director of completion on a form provided by the Department.	perato	or)
g.	A sampling port shall be provided for deep injection well systems if the system is enclosed.	()
h. separation from	All new injection wells constructed into alluvial formations shall have a minimum ten (1 the bottom of the well and seasonal high ground water.	0) foo	ot)
02. injection wells a	Operational Conditions and Requirements. The following requirements apply to all Cuthorized by permit unless noted differently:	Class '	V)
a. requirements of keeping.	The injection well shall not be used until the construction, operation and maint the permit are met and provisions are made for any required inspection, monitoring and		
	For both permitted injection wells and rule-authorized shallow injection wells, injection oncentrations exceeding the standards set in Paragraph 050.03.c. into a present or future drinter source that may cause a health hazard or adversely affect a designated and protected	king c	or
c. operational failu	The injection well owner or operator shall develop approved procedures to detect constructive in a timely fashion and shall have contingency plans to cope with the well failure.	onal o	or)
d.	Authorized representatives of the Department shall be allowed to enter, inspect and/or samp	le:)
(i.)	The injection well and related facilities;	()
(ii.)	The owner or operator's records of the injection operation;	()
(iii.)	Monitoring instrumentation associated with the injection operation; and	()
(iv.)	The injected fluids.	()
e. conditions of this	The injection facilities shall be operated and maintained to achieve compliance with all terms permit.	ms an (d)
f. staffing and tra procedures;	Proper operation and maintenance includes effective performance, adequate funding, o ining, and adequate laboratory and process controls, including appropriate quality ass		

.**g.**

If compliance cannot be met, the owner shall take corrective action as determined by the Director

or terminate inje	ection.	()
h. conditions of the	The owner shall mitigate any adverse effects resulting from non-compliance with the term e permit.	s and
i. compliance with Director.	If the injection well was constructed prior to issuance of the permit, the well shall be brough the terms and conditions of the permit in accordance with the schedule of compliance issued by	
j.	The permit shall not convey any property rights.	()
03. injection wells a	Conditions of Permanent Decommissioning. The following requirements apply to all Clauthorized by permit and rule authorized shallow injection wells, unless noted differently:	ass V
a . than thirty (30)	Notice of intent to permanently decommission a well shall be submitted to the Director not days prior to commencement of the decommissioning activity.	ot less
b . Director prior to	The method of permanent decommissioning for all injection wells shall be approved by commencement of the decommissioning activity.	y the
c. (30) days of con	Notice of completion of permanent decommission shall be submitted to the Director within impletion.	thirty
d. accordance with	All deep injection wells that are to be permanently decommissioned shall be plugg current Well Construction Standards.	ed in
e. shall be notified	Following permanent cessation of use, or where an injection well is not completed, the Dir. Decommissioning procedures or other action, as prescribed by the Director, shall be conducted to	
f. decommissioned	The injection well owner or operator has the responsibility to ensure that the injection operated as prescribed.	ion is
04. wells authorized	Duration of Approved Permits. The length of time that a permit may be in effect for Cl by permit shall not exceed ten (10) years.	ass V
053 - 054.	(Reserved)	
055. Standa	ards For the Quality of Fluids Injected into Class V Wells.	()
beneficial use n unreasonable co when it is deen additional requir	General. Injected fluids shall meet ground water quality standards for physical, biolo radiological contaminants, and if ground water produced from adjacent points of diversion neets the water quality standards as defined in these rules, then that aquifer will be protected ontamination and will be preserved for diversion to beneficial uses. The Director may, how need necessary, require specific injection wells to be constructed and operated in compliance rements, such as best management practices (BMPs), so as to protect the ground water resource depreserve it for diversion to beneficial use.	on for from vever, with
	Waivers. A waiver of one (1) or more standards may be granted by the Director if it can be applicant that the contaminants in injected fluid will not endanger a ground water source turns beneficial use.	
03. exceeded in inje	Chemical and Radiological Contaminants in Injected Fluids. The following limits shall rected fluids from a well when such fluids will or are likely to reach a USDW:	not be
a.	The concentration of each chemical contaminant in the injected fluids shall not excee	d the

concentration of each contaminant in the receiving water or the ground water quality standard , whichever is less tringent; and	s)
b. Radiological levels of the injected fluids shall not exceed those levels specified by the ground water quality standards.	d)
04. Biological contaminants. The following restrictions apply to injected fluids with biological contaminants included in the ground water quality standard.	ıl)
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 i 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;	ıl)
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 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; (er of
f. At no time shall any untreated fluid containing fecal contaminants of human origin be injected into any Class V injection well authorized under these rules. Subsurface fluid distribution systems that apply o discharge recycled water to the root-zone and regulated by IDEQ under IDAPA 58.01.17 (Recycled Water Rules are exempt from this rule.	r
05. 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, o other characteristics of the injected fluid may not result in the receiving ground water becoming less suitable fo diversion to beneficial uses, as determined by the Director.	r
06. Injectate Standards for the Quality of Recycled Municipal Wastewater or Recycled Industrial Wastewater.	d)
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 i likely to reach a USDW. The background concentration of any applicable contaminant shall be determined by statistical analysis consisting of a type and method approved by the Department.	d e s
07. Standards for the Quality of Fluids Injected to Subclass 5A7 Wells (Open-Loop Heat Pump Return).	p

- **a.** 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.
- **b.** 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.
- **c.** The temperature of the injected fluids shall not impair the designated beneficial uses of the receiving ground water.

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056. (RESERVED)

057. Criteria for Location and Use of Class V Wells Requiring Permits.

- **01**. **General:** A Class V injection well requiring a permit may be required to be located a minimum 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)	
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	

^{*} Injection rates 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.	()
c. improved throug	The Director may reduce separation distance requirements if the quality of injected flush additional treatment or BMPs.	ids a (re)
d. this section.	Heat pump return wells (sub-class 5A7) are exempt from the separation distance requiren	nent	of)
	Monitoring, Record Keeping, and Reporting Requirements. The Director may and keeping, and reporting by any owner or operator if the Director finds that the well may advater source or is injecting a contaminant that could have an unacceptable effect upon the quarks of the state.	verse	ly
01. maintenance of r	Monitoring. The Director may require, as conditions of the permit, the installation, us monitoring equipment or methods including, but not limited to, the following:	se, ai	nd)
a.	Monitoring of injection pressures and pressures in the annular space between casings;	()
b.	Flow rate and volumes;	()
c. reduction under the injected fluid	Analysis of quality of the injected fluids for contaminants that are subject to limitate the conditions of the permit; or other contaminants which the Director has reason to believe the second to be a		
d. beneficial use in	Monitoring of ground water through special monitoring wells or existing points of divers the zone of influence as determined by the Director;	ion f	or)
e.	A demonstration of the integrity of the casing, tubing, or seal of the injection well.	()
f. Director at any to	The frequency of required monitoring shall be specified in the permit when issued, except time may, in writing, require additional monitoring and reporting.	hat tl	he)
g. certified laborate	All monitoring tests and analysis required by permit conditions shall be performed in ory or other laboratory approved by the Director.	a sta	ite)
h. required by the Γ	Any field instrumentation used to gather data, when specified as a condition of the permit, so Director to be tested and maintained in such a manner as to ensure the accuracy of the data.	hall l	be)
i. monitoring activ	All samples and measurements taken for the purpose of monitoring shall be representative ity and fluids injected.	of t	he)
02.	Record Keeping. The permittee shall maintain records of all monitoring activities to include	e: ()
a.	Date, time, and exact place of sampling;	()
b.	Person or firm performing analysis;	()
c.	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	ment	s.

prescribed by the	Reporting. Monitoring results obtained by the permittee pursuant to the monitoring required Director shall be reported to the Director as required by permit conditions.	men (ts)
or domestic water	The Director shall be notified in writing by the permittee within five (5) days after the disc the terms and conditions of the permit. If the injection activity endangers human health or a per supply, use of the injection well shall be immediately discontinued, and the owner or op y notify the Director. Notification shall contain the following information:	oubl	ic
i.	A description of the violation and its cause;	()
ii. discontinued, the	The duration of the violation, including dates and times; if not corrected or use of the anticipated time of correction; and	we	ll:)
iii.	Steps being taken to reduce, eliminate and prevent recurrence of the injection.	()
b. application or rep	Where the owner or operator becomes aware of failure to submit any relevant facts in any poort to the Director, that person shall promptly submit such facts or information.	erm (nit)
c. which the Directo	The permittee shall furnish the Director, within a time specified by the Director, any informor may request to determine compliance with the permit.	natio	on)
d. related to the per	The Director shall be notified in writing of planned physical alterations or additions to any famitted injection well operation.	acili (ty)
e.	Additional information to be reported to the Director in writing shall include:	()
i.	Transfer of ownership;	()
ii.	Any change in operational status not previously reported;	()
iii.	Any anticipated noncompliance; and	()
iv. assigned to an ap	Reports of progress toward meeting the requirements of any compliance schedule attach proved permit.	ed (or)
f.	All notices and reports submitted to the Director shall be signed and certified.	()
	Permit Assignable . Permits may be assigned to a new owner or operator of an injection vor operator, within thirty (30) days of the change, notifies the Director of such change. The reshall be responsible for complying with the terms and conditions of the permit from the times place.	e ne	w
058 059.	(RESERVED)		
060. HEARI	NG BEFORE THE IDAHO WATER RESOURCE BOARD.		
permit, or any pe	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemperator aggrieved by the approval or disapproval of an application, or by conditions imposed userson aggrieved by the Director's decision on a petition for exemption under these rules, shortunity for a hearing before the Board or its designated hearing officer in accordance with	pon all l	a oe
02. hearing to the ho 3910.	Hearings on Permit Cancellations . The Board shall provide notice and an opportunity older of any permit proposed to be cancelled by the Director in accordance with Idaho Code		

061. -- 069. (RESERVED) 070. VIOLATIONS, FORMAL NOTIFICATION AND ENFORCEMENT. 01. **Violations**. It shall be a violation of these rules for any owner or operator to: a. Fail to comply with a permit or authorization, or terms or conditions thereof; b. Fail to comply with applicable standards for water quality; Fail to comply with any permit application notification or filing requirement; c. Knowingly make any false statement, representation or certification in any application, report, d. document or record filed pursuant to these rules, or terms and conditions of an issued permit; 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 Decommission a well in an unauthorized manner. g. Additional. It shall be a violation of these rules for any person to construct, operate, maintain, 02. convert, plug, decommission or conduct any other activity in a manner which results or may result in the unauthorized injection of a hazardous or radioactive waste by an injection well.)

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.

Enforcement. Violation of any of the provisions of the Injection Well Act (Chapter 39, Title 42,

071. -- 999. (RESERVED)

03.