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

000. Sections		AUTHORITY. 3A, and 42-3913 through 42-3915, Idaho Code.	()
001.	SCOPE	, ,		
		These rules establish minimum standards and criteria for construction and abandonment of low injection wells in the state of Idaho, except Indian lands, and the injection of fluids truction 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, 142, 144, 145, and ederal requirement will be used to regulate the injection well.		
002 0	009.	(RESERVED)		
010.	DEFIN	ITIONS.		
-	-	Agricultural Runoff Waste. Excess surface water from agricultural fields generated during ration, including runoff of irrigation tail water, as well as natural drainage resulting symmelt, and floodwaters.		
maintair	02. n an injec	Applicant . Any owner or operator submitting an application for permit to construct, modition well to the Director.	dify (or)
revision	03. s or mod	Application . The standard Department forms for applying for a permit, including any additions to the forms.	dition (ıs,
producti	04.	Aquifer . Any geologic formation(s) that yields water to a well in sufficient quantities to mater from the formation feasible for beneficial use.	,	ne)
		Beneficial Use . One (1) or more of the recognized beneficial uses of water including bestic, municipal, irrigation, hydropower generation, industrial, commercial, recreation, rage, stockwatering and fish propagation.		
	06. e than ot	Best Management Practice (BMP) . A practice or combination of practices that are ther techniques at preventing or reducing contamination of ground water and surface wateration.	ater b	
	07.	Board. The Idaho Water Resource Board.	()
	08. pse of the nular sea	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.		
that som	09. netimes h	Cesspool . An injection well that receives untreated sanitary waste containing human excre as an open bottom and/or perforated sides.	ta, ar	ıd)

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forming, rod-shaped bacteria that either ferment lactose broth with gas formation within forty-eight (48) hours at thirty-five degrees Celsius (35C), or produce a dark colony with a metallic sheen within twenty-four (24) hours on

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

an Endo-type me	edium containing lactose.	()
11. adjacent to one (Confining Bed . A body of impermeable or distinctly less permeable material stratigrap 1) or more aquifers.	hical (lly)
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.	()
14. biological, or rad	Contamination . The introduction into the natural ground water of any physical, cholioactive material that may:	emica (al,)
a. IDAPA 58.01.08	Cause a violation of Standards found in IDAPA 58.01.11, "Ground Water Quality Rus, "Idaho Rules for Public Drinking Water Systems" Sectio 050, whichever is more stringent;		or
b.	Adversely affect the health of the public; or	()
	Adversely affect a designated or beneficial use of the State's ground water. Contam oduction of heated or cooled water into the subsurface that will alter the ground water temp cal ground water less suitable for beneficial use.		
15.	Conventional Mine. An open pit or underground excavation for the production of minerals.	()
16. or plugged in ac will not:	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 decommission () a. Produce or accept fluids; b. Serve as a conduit for the movement of contaminants inside or outside the well casing; or c. Allow the movement of surface or ground water into unsaturated zones, into another aquit or between aquifers.	ed wo	
	or between aquiters.	()
17.	DEQ . The Idaho Department of Environmental Quality.	()
18. below land surfa	Deep Injection Well . An injection well that is more than eighteen (18) feet in vertical ce.	dep	oth)
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.	()
monitoring requinotice of intent t	Draft Permit . A prepared document indicating the Director's tentative decision to issue of and reissue, terminate, or reissue a "permit." Permit conditions, compliance schedule irements 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."	es, and	nd l a
23. pipe and through	Drilling Fluid . A heavy suspension used in drilling an "injection well," introduced down the drill bit.	he dr	ill
27.	Endangerment . An act that threatens contamination of a USDW aquifer which supplies expected to supply any public water system where the contamination may result in the system.		

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complying wit	h Ground Water Quality Standards or otherwise adversely affect human health.	()
24. but which has Rule".	Exempted Aquifer . An "aquifer" or its portion that meets the criteria in the definition been recategorized as "other" according to the procedures in IDAPA 58.01.11 "Ground W	
25. conditions in v	Experimental Technology . A technology which has not been proven feasible which it is being tested.	under the
26. gaseous or any	Fluid . Any material or substance that flows or moves, whether in a semisolid, liquent other form or state.	juid, sludge,
27.	Ground Water. Water below the land surface in a zone of saturation.	()
28.	Ground Water Quality Standards . Standards found in IDAPA 58.01.11, "Ground W Rule," Section 200 or IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Syst 050, whichever is more stringent.	
29. Hazardous Wa	Hazardous Waste. Any substance defined by IDAPA 58.01.05, "Rules and Staste."	tandards for
30. Country as:	Indian Lands. "Indian Country" as defined in 18 U.S.C. 1151. That section def	fines Indian
a. government, reservation;	All land within the limits of any Indian reservation under the jurisdiction of the Unotwithstanding the issuance of any patent, and, including rights-of-way running	
b. original or sub	All dependent Indian communities within the borders of the United States whether sequently acquired territory thereof, and whether within or without the limits of a State; and	
c. way running th	All Indian allotments, the Indian titles to which have not been extinguished, including a rough the same.	ng rights-of-
	Individual Subsurface Sewage Disposal System. For the purpose of these rules, any posal system that injects sanitary waste from single family domestic septic systems, or no which are used solely for the disposal of sanitary waste and have the capacity to serve ople a day.	on-domestic
32. wastewater.	Industrial Wastewater. All wastewater, treated or untreated, that is not defined a	ns municipal
33. modified by m	Improved Sinkhole . A naturally occurring crevice found in geologic settings that an for the purpose of directing and emplacing fluids into the subsurface.	t have been
34.	Injection. The subsurface emplacement of fluids through an injection well.	()
35. the following of	Injection Well . Any feature that is operated to allow injection that also meets at least criteria:	st one (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	()

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 used by twenty (20) or more people per day (for example: a rest stop, campground, restaurant of church).
37. Modify. To alter the construction of an injection well but does not include cleaning or redrilling operations which neither deepen nor increase the dimensions of the well.
38. Motor Vehicle Waste Disposal Wells. Injection wells that receive or have received fluids from vehicle repair or maintenance activities, such as an auto body repair shop, automotive repair shop, new and used ca dealership, specialty repair shop (transmission and muffler repair shop), or any facility that does any vehicular repair work.
39. Municipal Wastewater . Wastewater containing sewage and associated solids, whether treated o untreated. Municipal wastewater, also known as domestic wastewater, may contain industrial wastewater. (
40. Open-Loop Heat Pump Return Wells. Injection wells that receive surface water or ground water that has been passed through a heat exchange system for cooling or heating purposes.
41. Owner or Operator. The owner or operator of any facility or activity subject to regulation under these Rules.
42. Permit . An authorization, license, or equivalent control document issued by the Department.
43. Point of Beneficial Use. The top or surface of a USDW, directly below an injection well, where water is available for a beneficial use.
44. Point of Diversion for Beneficial Use. Location of a producing well or spring where ground water is taken under control and diverted for a beneficial use.
45. Point of Injection. The last accessible sampling point prior to waste being released into the subsurface environment through an injection well. For example, the point of injection for a Class V septic system might be the distribution box. For a drywell, it is likely to be the well bore itself.
46. Radioactive Material. Any material, solid, liquid or gas that emits radiation spontaneously Radioactive geologic materials occurring in their natural state are not included.
47. Radioactive Waste. Any fluid that contains radioactive material in concentrations that exceed those listed in 10 CFR part 20, appendix B, table II, column 2.
48. Recycled Water. Water treated by a wastewater treatment system and used according to these rules and IDAPA 58.01.17, "Recycled Water Rules."
49. Septic System . An injection well that is used to inject sanitary waste below the surface. A septic system is typically comprised of a septic tank and subsurface fluid distribution system or disposal system. (
50. Shallow Injection Well . An injection well that is less than or equal to eighteen (18) feet in vertical depth below land surface.
51. Subsidence. The lowering of the natural land surface in response to: Earth movements; lowering of fluid pressure; removal of underlying supporting material by mining or solution of solids, either artificially of from natural causes; compaction due to wetting; oxidation of organic matter in soils; or added load on the land

()

d.

A subsurface fluid distribution system.

surface.			()
similar	52. mechanis	Subsurface Fluid Distribution System . An assemblage of perforated pipes, drain tiles, or ms intended to distribute fluids below the surface of the ground.	r other
includir	53. ng an "app	UIC. The Underground Injection Control program under Part C of the Safe Drinking Water proved State program."	er Act,
	54.	Underground Source of Drinking Water (USDW). An aquifer or its portion that:	()
public v	a. water syste	Either supplies any public water system, contains a sufficient quantity of ground water to suem, or currently supplies drinking water for human consumption; and	ipply a
aquifer.	b.	Contains fewer than ten thousand (10,000) mg/l total dissolved solids and is not an exe	mpted
		Unreasonable Contamination . Contamination of a USDW or the injection of contaminants ne concentration of any contaminant(s) in the injected fluids specified in the permit exceet the corresponding contaminant(s) in the receiving water.	
any gro biologic	ound wat	Wastewater . Combination of liquid or water and pollutants from activities and prollings, commercial buildings, industrial plants, institutions, and other establishments, together, surface water, and storm water that may be present; liquid or water that is chemically or rationally identifiable as containing blackwater, gray water, or commercial or indewage.	er with ically,
011 (019.	(RESERVED)	
011 0 020.		(RESERVED) IFICATION OF INJECTION WELLS.	
	CLASS 01.		fied as
020.	CLASS 01.	IFICATION OF INJECTION WELLS.	fied as
020. follows	CLASS 01. i. i. ement faci	IFICATION OF INJECTION WELLS. Classification of Injection Wells. For the purposes of these rules, injection wells are classic	() () waste
o20. follows manage (1/4) mi	CLASS 01. i. ement facile of the vii.	Classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells.	waste
manage (1/4) mi	CLASS 01. i. i. i. i. iii. iii. iii. iiii.	Classification of Injection Wells. For the purposes of these rules, injection wells are classic. Class I: Wells used by generators of hazardous waste or owners or operators of hazardous lities to inject hazardous waste beneath the lowermost formation containing, within one-containing water. Other industrial and municipal disposal wells which inject fluids beneath the lowermost formation.	waste quarter () mation ()
manage (1/4) mi	CLASS 01. i. i. i. i. iii. iii. iii. iiii.	Classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection wells are classification of Injection wells are classification of the Injection wells are classification of the Injection wells are classification of the Injection wells are classification wells used by generators of hazardous waste or owners or operators of hazardous elitities to inject hazardous waste beneath the lowermost formation containing on underground source of drinking water. Other industrial and municipal disposal wells which inject fluids below the lowermost formation contain Radioactive waste disposal wells which inject fluids below the lowermost formation contain	waste quarter () mation ()
manage (1/4) min containing undergrange convents stations	cLASS 01. i. i. ii. iii. iii. iii. iii. cound sourt b. i. tional oil , or com	Classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells. For the purposes of these rules, injection wells are classification of Injection Wells are classification of Injection wells are classification of the Lagrangian wells waste or owners or operators of hazardous elities to inject hazardous waste beneath the lowermost formation containing, within one-containing water. Other industrial and municipal disposal wells which inject fluids beneath the lowermost formation 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 of drinking water within one-quarter (1/4) mile of the well bore.	waste quarter () mation () ing an () ms, or

	iii.	For storage of hydrocarbons which are liquid at standard temperature and pressure.	()
	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
020.01.0	l.i. or of t	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 020.01 this rule (e.g., wells used to dispose of hazardous waste into or above a formation which contains been exempted pursuant to Section 025 of these rules).	1.a.i c	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 of rmost formation containing a USDW; or	lioxid (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	ie)
		Wells used for geologic sequestration of carbon dioxide that have received an expansion a 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 ¹ .	()
	k.	5G30-Special Drainage Water.	()
	l.	5N24-Radioactive Waste Disposal ¹ .	()
	m.	5R21-Aquifer Recharge.	()
	n.	5S23-Subsidence Control.	()
	0.	5W9-Untreated Sewage ¹ .	()
	p.	5W10-Large Capacity Cesspools ² .	()
	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.	()
	y.	5X16-Spent Brine Return Flow.	()
	z.	5X25-Experimental Technology.	()
	aa.	5X26-Aquifer Remediation.	()
	bb.	5X27-Other Wells.	()
	cc.	5X28-Motor Vehicle Waste Disposal Wells ² .	()
	dd.	5X29-Abandoned Water Wells.	()
		onstruction of wells in this subclass is currently prohibited in Idaho. Onstruction and operation of wells in these subclasses is currently prohibited in Idaho.		
021	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.	()

well.	a.	These rules prohibit the permitting, construction, or use of any Class I, III, IV, or VI injection (ection
undergre seconda otherwis	ound sou ry drinki se advers	No owner or operator shall construct, operate, maintain, convert, plug, abandon, or conductivity in a manner that allows or causes the movement of fluid containing any contaminant rees of drinking water, if the presence of that contaminant may cause a violation of any primary may water regulation, under IDAPA 58.01.11, "Ground Water Quality Rule," Section 200 or ely affect the health of persons. The applicant for a permit has the burden of showing that luid does not present an imminent and substantial endangerment to the health of persons.	t into
		Notwithstanding any other provision of this section, the Director may take emergency action lation that a contaminant which is present in or likely to enter a public water system or a Usumminent and substantial endangerment to the health of persons.	
		Large capacity cesspools, motor vehicle waste disposal wells, radioactive waste disposal vewage disposal wells are prohibited. All prohibited wells described in this section must in accordance with these rules.	
	e.	Construction of new Subclass 5F1 - Agricultural Runoff Waste injection wells is prohibited.	
EPA, p Compen	oursuant isation, a	These rules do not prohibit the injection of contaminated ground water into the same form as drawn provided the contaminated ground water is treated and if such injection is approve to provisions for cleanup of releases under the Comprehensive Environmental Respind Liability Act of 1980, 42 U.S.C. 9601–9657, or pursuant to requirements and provisions unservation and Recovery Act, 42 U.S.C. 6901 through 6987.	ed by onse
	03.	Exemptions. (
permit p	a. provided t	Construction and use of Class V shallow injection wells are authorized by these rules with that:	ithou
	i.	Required inventory information is submitted to the Director in accordance with these rules. (
municip	ii. al of indu	Use of a shallow injection well shall not result in injection of recycled water derived astrial sources.	fron
cause a	iii.		
	violation	Use of a shallow injection well shall not result in unreasonable contamination of a USD of Ground Water Quality Standards that would affect a beneficial use.	W o
	b. ng and f		to the

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 testing method or technology.

026. -- 029. (RESERVED)

030. CLASS V SHALLOW INJECTION WELL REQUIREMENTS

- **01. Authorization.** All owners or operators of shallow Class V injection wells, including improved sinkholes used for aquifer recharge, that dispose of nonhazardous and nonradioactive wastes are required to submit a Shallow Injection Well Inventory Form to the Department no later than thirty (30) days prior to commencement of construction for each new well or no later than thirty (30) days after the discovery of an existing injection well that has not previously been inventoried with the Department.
- **02. Inventory Fees.** For shallow injection wells constructed after July 1, 1997, the Shallow Injection Well Inventory Form shall be accompanied by a fee as specified in Section 42-3905(2), Idaho Code, payable to the Department of Water Resources. State or local government entities are exempt from filing fees for shallow injection wells associated with highway and street construction and maintenance.
- **04. Decommission.** Owners or operators of shallow injection wells must notify the Director not less than thirty (30) days prior to permanent decommissioning of any shallow injection well. Decommissioning must be accomplished in accordance with procedures approved by the Director.
- **05. 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 will 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

- **O1. 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 must 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 water derived from municipal or industrial wastewater sources must also adhere to all applicable IDEQ rules and permitting requirements.
- **O2. 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 water derived from municipal or industrial wastewater sources unless a permit has been issued by the Director. An application for permit must 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 Ground Water Quality Standards that would affect a beneficial use. Applications proposing to inject recycled water derived from municipal or industrial wastewater sources must also adhere to all applicable IDEQ rules and permitting requirements.

		Application Information Required. An applicant must submit the following information injection wells to be authorized by permit, unless the Director determines that it is not need 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 020);	()
	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;	()
depictin	j. g:	A topographic map or aerial photograph extending one (1) mile beyond property boun	ıdari (les,
	(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.	()
complet addition applicat	te the pro- al inform ion 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 we cessing of an application for which additional information has been requested until such time nation is supplied. The Director may return any incomplete application and will not processuch time as the application is received in complete form. Additional information may include following items:	vill i e as i ss su	not the uch
injection	a. n well:	A topographic map showing locations of the following within a two (2) mile radius	of (the)
	(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 injection	Locations of all wells penetrating the proposed injection zone or within a one-quarter (1/4 ction well;	4) mi	ile)
	Maps and cross sections depicting all underground sources of drinking water to include within a one-quarter (1/4) mile radius of the injection well, their position relative to the inction of water movement: local geologic structures; regional geologic setting.		
c.	A comprehensive report of the following information:	()
(1) operator; well ide	A tabulation of all wells penetrating the proposed injection zone, listing owner, lease hold entification (permit) number; size, weight, depth and cementing data for all strings of casing;	ler a	nd
(2)	Description of the quality, composition, and quantity of fluids to be injected;	()
(3)	Description of geologic, hydrogeologic, and geochemical conditions present in the injection	n zo	ne
and confining bed	ds; methods for determining geochemical conditions must 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) decommissioned	A plan of corrective action for wells penetrating the zone of injection, but not properly set and	aled	or)
(8) unacceptable flui	Contingency plans to cope with all shut-ins or well failures to prevent the migrat ds into underground sources of drinking waters.	ion (of)
d. and/or designing	Name, address and phone number of person(s) or firm(s) supplying the technical inforthe injection well;	mati	on)

e. appropriate mea	Proof that the applicant is financially responsible, through a performance bond on ans, to decommission the injection well in a manner approved by the Director.	r oth (er)
036 049.	(RESERVED)		
050. CLAS	S V INJECTION WELL REQUIREMENTS – APPLICATION PROCESSING		
reasons for den	Draft Permit Preparation. After all application information is received and evaluate repare a draft permit or denial, which will include the application for permit, permit conditional, and any compliance schedules or monitoring requirements. In preparing the draft perceptor must consider the following factors:	ions	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 into the v	well;)
c. contaminants in	The availability of economical, practical means of treating or otherwise reducing the amethe injected fluids;	ount (of)
d. interconnected s	The quality of the receiving ground water, its category, its present and future beneficial surface water;		or)
e.	The location of the injection well with respect to drinking water supply wells; and	()
f.	Compliance with Ground Water Quality Standards.	()
g.	The benefit to the State of Idaho.	()
which the well public and gove	Public Notice. The Director will provide public notice of any draft permit to construct, mass V injection well by means of a legal notice in a newspaper of general circulation in the cois located. The Director may give additional notice as necessary to adequately inform the internmental agencies. There shall be a period of at least thirty (30) days following publication in to submit written comments.	unty terest	in ed
	Review by the Directors of Other State Agencies. The Directors of other state agencies be Director, shall be given an opportunity to review and comment on draft permits. Comment the Director within thirty (30) days of public notice.		
0 1	Open-Loop Heat Pump Return Wells (Subclass 5A7). The Director may waive the draft ermit cycle requirements of these rules for any application proposing use of an open-loop heat eter than eighteen (18) feet in depth solely for disposal of heat pump water at a rate not except the execution of the	it pun ceedii	np
of the injection regular mail to	Fact-Finding Hearings. At the Director's discretion, or upon motion of any interested indigular elect to hold a fact-finding hearing. Said hearing will be held at a location in the geographic well. Notice of said hearing will be provided at least thirty (30) days in advance of the heat the applicant and to the person or persons requesting the hearing. Public notice of the fact-made in a newspaper of general circulation in the county where the injection well is located.	cal ar ring l findi	ea by
06. when taking find	Draft Permit Final Review and Consideration. The Director will consider the following al action on draft permits:	facto	rs)
a.	The potential for unreasonable contamination or deterioration of ground water quality:	()

	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 a	and th	e)
of bene	e. ficial use;	The potential for violation of Ground Water Quality Standards at the point of injection or the and	e poir	ıt)
	f.	Compliance with the Idaho Ground Water Quality Plan.	()
describe standard contami protect	ed in theseds and coination at ground vertand all	Issuance of Permit. After considering the draft permit for construction, modificuse, and all matters relating thereto, the Director shall issue a permit if the standards and see rules will be met and USDW's will not be unreasonably affected. If the Director finds the criteria cannot be met or that ground water sources cannot be protected from unreast all times, the draft permit may be denied or a permit may be issued with conditions designater sources. The Director's decision shall be in writing and a copy sent by regular mail persons who commented in writing on the draft permit or appeared at a hearing held to considered.	criteri hat th sonabl gned t to th	a e e o e
Standar	ds. In ado	Permit Conditions and Requirements. Any permit issued by the Director shall of tect ground water sources from waste, contamination, or deterioration of Ground Water of dition to specific construction, operation, maintenance, monitoring, and reporting requirements necessary, each permit shall be subject to the standard conditions and requirements of this results.	Qualit nts thaule.	у
		Permit Decision Notice. The Director's decision shall be in writing and a copy shall be man applicant and all persons who commented in writing on the draft permit or appeared at a latter than the draft permit.		
051.	(RESE	RVED)		
052.	CLASS	S V INJECTION WELL CONSTRUCTION AND OPERATION REQUIREMENTS	()
authoriz	01. zed by per	Construction Requirements. The following requirements apply to all Class V injection rmit unless noted differently:	,	ls)
condition	ons of the	Deep injection wells shall be constructed by an Idaho licensed well driller to conform wonstruction Standards (IDAPA 37.03.09), the conditions of the well construction permit, a injection well permit issued pursuant to these rules, except that a driller's license is not requi of a driven mine shaft or a dug hole.	and th	e
	b. nce const e Director	Well drillers or other persons involved with the construction of any injection well sharuction of the injection well until a certified copy of the approved injection well permit is of r.	btaine	
authoriz	c . zed 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 (
permit.	d.	Injection wells shall be constructed to prevent the entrance of any fluids other than specified	d in th (e)
from or	e.	Deep injection wells shall be constructed to prevent waste of artesian fluids or movement of into another	f fluid	ls `

f. When construction or modification of an injection well has been completed, the owner or operator shall inform the Director of completion on a form provided by the Department.
g. A sampling port shall be provided for deep injection well systems if the system is enclosed. ()
h. All new injection wells constructed into alluvial formations shall have a minimum ten (10) foot separation from the bottom of the well and seasonal high ground water.
02. Operational Conditions and Requirements. The following requirements apply to all Class V injection wells authorized by permit unless noted differently:
a. The injection well shall not be used until the construction, operation and maintenance requirements of 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 any contaminant at concentrations exceeding the standards described in Section 055 of this rule into a present or future drinking or other ground water source that may cause a health hazard or adversely affect a designated and protected use is prohibited.
c . The injection well owner or operator shall develop approved procedures to detect constructional or operational failure in a timely fashion and shall have contingency plans to cope with the well failure. ()
d . Authorized representatives of the Department shall be allowed to enter, inspect and/or sample:
(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. The injection facilities shall be operated and maintained to achieve compliance with all terms and conditions of this permit.
f. Proper operation and maintenance includes effective performance, adequate funding, operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures;
.g. If compliance cannot be met, the owner shall take corrective action as determined by the Director or terminate injection.
h. The owner shall mitigate any adverse effects resulting from non-compliance with the terms and conditions of the permit.
i. 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.
j. The permit shall not convey any property rights.
03. Conditions of Permanent Decommissioning. The following requirements apply to all Class V injection wells authorized by permit and rule authorized shallow injection wells, unless noted differently: ()

	Notice of intent to permanently decommission a well shall be submitted to the Director not logs prior to commencement of the decommissioning activity.	ess)
	The method of permanent decommissioning for all injection wells shall be approved by tommencement of the decommissioning activity.	he)
c. 1 (30) days of compl	Notice of completion of permanent decommission shall be submitted to the Director within this letion.	rty)
	All deep injection wells that are to be permanently decommissioned shall be plugged arrent Well Construction Standards.	in)
	Following permanent cessation of use, or where an injection well is not completed, the Direct Decommissioning procedures or other action, as prescribed by the Director, shall be conducted.	tor)
f. decommissioned a	The injection well owner or operator has the responsibility to ensure that the injection operation s prescribed.	is)
	Duration of Approved Permits. The length of time that a permit may be in effect for Class y permit shall not exceed ten (10) years.	V)
053 - 054.	(Reserved)	
055. Standard	ls For the Quality of Fluids Injected into Class V Wells. ()
chemical, and rad beneficial use me protected from unr however, when it i with additional req	General. Injected fluids shall meet Ground Water Quality Standards for physical, biological contaminants, and if ground water produced from adjacent points of diversion tests the Ground Water Quality Standards as defined in these rules, then that aquifer will reasonable contamination and will be preserved for diversion to beneficial uses. The Director mass deemed necessary, require specific injection wells to be constructed and operated in compliant quirements, such as best management practices (BMPs), so as to protect the ground water resour and preserve it for diversion to beneficial use.	for be ay, ace
	Waivers. A waiver of one (1) or more standards may be granted by the Director if it can he applicant that the contaminants in injected fluid will not endanger a ground water source are beneficial use.	
	Chemical and Radiological Contaminants in Injected Fluids. The following limits shall not ed fluids from a well when such fluids will or are likely to reach a USDW:	be)
	The concentration of each chemical contaminant in the injected fluids shall not exceed to ach applicable contaminant in the receiving water or the ground water quality standard, whicheved	
b. Water Quality Star	Radiological levels of the injected fluids shall not exceed those levels specified by the Groundards.	ind)
	Biological contaminants. The following restrictions apply to injected fluids with biological ded in the ground water quality standard.	cal)
	Contamination of ground water produced at any point of diversion for beneficial use by inject coliform bacteria in concentrations greater than the current ground water quality standard (

Construction of shallow and deep injection wells, as specified by the Director, that are likely to

b.

c. receiving ground	The temperature of the injected fluids shall not impair the designated beneficial uses of th water.	ne)
b. injected fluids m	If the quality of the ground water source does not meet Ground Water Quality Standards, the ust be returned to the formation from which they were drawn.	ne)
a. Quality Standard whichever is less	The quality of fluids injected to a Subclass 5A7 injection well shall comply with Ground Water sor shall be equal to the quality of the ground water source passed through a heat exchange system stringent.	ı,
Return).)
07.	Standards for the Quality of Fluids Injected to Subclass 5A7 Wells (Open-Loop Heat Pum	
other applicable the concentratio concentration of concentration of	Deep Injection Wells. The concentration of all contaminants in recycled water derived from ustrial wastewater sources must comply with established Ground Water Quality Standards and a IDEQ rules and permitting requirements prior to injecting into a deep injection well. Additionally n of each applicable contaminant in the injected fluids shall not exceed the backgroun are applicable contaminant water that is likely to reach a USDW. The backgroun any applicable contaminant shall be determined by a statistical analysis consisting of a type and by the Department.	ll y, d
	Shallow Injection Wells. The concentration of all contaminants in recycled water derived from ustrial wastewater sources must comply with established Ground Water Quality Standards and a IDEQ rules and permitting requirements prior to injecting into a shallow injection well. (11
06. Industrial Wast	Injectate Standards for the Quality of Recycled Water Derived from a Municipal o ewater Source.	r)
other characteris diversion to bene	Physical, visual, and olfactory characteristics. The following restrictions apply to physical tory characteristics of injected fluids. The temperature, color, odor, conductivity, turbidity, pH, of tics of the injected fluid may not result in the receiving ground water becoming less suitable for efficial uses, as determined by the Director.	or or)
	At no time shall any untreated fluid containing fecal contaminants of human origin be injected intection well authorized under these rules. Subsurface fluid distribution systems that apply or a water to the root-zone and regulated by IDEQ are exempt from this rule.	
quality standard the monitoring re	Ground water produced from points of diversion for beneficial use within the distances identifie inject fluids containing coliform bacteria in concentrations greater than the current ground water shall be subject to monitoring for bacteria by the owner/operator of the injection well. A waiver of equirement may be granted by the Director when it can be demonstrated that injection will not result contamination of ground water produced from these adjacent points;	er of
d. chlorination devi bacteria in inject	The Director may require the use of water treatment technology, including ozonation and ices, sand filters, and settling pond specifications to reduce the potential concentration of coliformed fluids; (
c. concentration of	The Director may require the use of best management practices (BMPs) to reduce the potential coliform bacteria in the injected fluids;	al)
prohibited; and	nt ground water quality standard for coliform bacteria at the point of diversion for beneficial use i	is)

distance, as deter bacterial contamin requirement is not In addition, the D beneficial use to	rmined from Table 1, from mants. The minimum distant t applicable to wells injection irector may require a Class	tion well requiring a permit may be required to be lost any point of diversion for beneficial use that counce shown in Table 1 is also referred to as the zone and fluids of quality that meet adopted Ground Water of V injection well to be located a distance from a point ound water contamination resulting from unauthority	ald be harmed by of influence. This Quality Standards. nt of diversion for
springs or wells applicant's inject	within the minimum distinction well. The applicant is	in Table 1 may be waived when the applicant can detance as determined from Table 1 will not be commay be required to monitor production wells or sto demonstrate that they are not being contaminated.	ntaminated by the
		e Zone of Influence Based on Maximum Average on 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 sinjection in an ave		age volume of fluids injected into the well during the	e week of greatest
b.	Injection wells installed in	to fractured basalt are exempt from separation distance	es. ()
	The Director may reduce additional treatment or BN	separation distance requirements if the quality of iMPs.	njected fluids are
d. this section.	Heat pump return wells (s	sub-class 5A7) are exempt from the separation distan	ce requirement of
monitoring, record	d keeping, and reporting by ater source or is injecting a	eping, and Reporting Requirements. The Dire y any owner or operator if the Director finds that the was contaminant that could have an unacceptable effect up	

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

()

01. maintenance of	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, a	nd)
a.	Monitoring of injection pressures and pressures in the annular space between casings;	()
b.	Flow rate and volumes;	()
c. reduction under the injected flui	Analysis of quality of the injected fluids for contaminants that are subject to limitar the conditions of the permit; or other contaminants which the Director has reason to believe ds;		
d. beneficial use in	Monitoring of ground water through special monitoring wells or existing points of divers in the zone of influence as determined by the Director;	sion f	or)
e.	A demonstration of the integrity of the casing, tubing, or seal of the injection well.	()
f. Director at any	The frequency of required monitoring shall be specified in the permit when issued, except time may, in writing, require additional monitoring and reporting.	that t	he)
g. certified laborat	All monitoring tests and analysis required by permit conditions shall be performed in tory or other laboratory approved by the Director.	a sta	ite)
h. required by the	Any field instrumentation used to gather data, when specified as a condition of the permit, s Director to be tested and maintained in such a manner as to ensure the accuracy of the data.	shall (be)
i. monitoring activ	All samples and measurements taken for the purpose of monitoring shall be representative vity 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.
	and original suppose of the control	()
03. prescribed by the	Reporting. Monitoring results obtained by the permittee pursuant to the monitoring require Director shall be reported to the Director as required by permit conditions.	() nts)
a. of a violation o or domestic wa	Reporting. Monitoring results obtained by the permittee pursuant to the monitoring requir	remer (scove) ery lic
a. of a violation o or domestic wa	Reporting. Monitoring results obtained by the permittee pursuant to the monitoring require Director shall 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 distribution of the terms and conditions of the permit. If the injection activity endangers human health or a ster supply, use of the injection well shall be immediately discontinued, and the owner or o	remer (scove) ery lic
a. of a violation o or domestic wa shall immediate i.	Reporting. Monitoring results obtained by the permittee pursuant to the monitoring required Director shall 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 distribution of the permit. If the injection activity endangers human health or a ster supply, use of the injection well shall be immediately discontinued, and the owner or only notify the Director. Notification shall contain the following information:	remer (scove a public perat	ery lic for)

applicat	b. tion or rep	Where the owner or operator becomes aware of failure to submit any relevant facts in any port to the Director, that person shall promptly submit such facts or information.	pern ()	
which tl	c. he Directo	The permittee shall furnish the Director, within a time specified by the Director, any information may request to determine compliance with the permit.	mati (on)	
related t	d. to the per	The Director shall be notified in writing of planned physical alterations or additions to any f mitted injection well operation.	facil	ity)	
	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	()	
assigned	iv. d to an ap	Reports of progress toward meeting the requirements of any compliance schedule attack approved permit.	hed (or)	
	f.	All notices and reports submitted to the Director shall be signed and certified.	()	
owner c		Permit Assignable . Permits may be assigned to a new owner or operator of an injection or operator, within thirty (30) days of the change, notifies the Director of such change. The responsible for complying with the terms and conditions of the permit from the times place.	e ne	ew	
058 (059.	(RESERVED)			
058 0 060.		(RESERVED) ING BEFORE THE IDAHO WATER RESOURCE BOARD.			
Any ow permit, afforded	O1. or or op or any p	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemperator aggrieved by the approval or disapproval of an application, or by conditions imposed person aggrieved by the Director's decision on a petition for exemption under these rules, slortunity for a hearing before the Board or its designated hearing officer in accordance with	upor nall	a be	
Any ow permit, afforded Code §	HEARI 01. There or op or any period an opport 42-3909. 02.	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemperator aggrieved by the approval or disapproval of an application, or by conditions imposed person aggrieved by the Director's decision on a petition for exemption under these rules, slortunity for a hearing before the Board or its designated hearing officer in accordance with	upor nall Ida (be ho	
Any ow permit, afforded Code §	on any pod an oppod 42-3909. to the ho	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemplerator aggrieved by the approval or disapproval of an application, or by conditions imposed the erson aggrieved by the Director's decision on a petition for exemption under these rules, slopertunity for a hearing before the Board or its designated hearing officer in accordance with the Hearings on Permit Cancellations. The Board shall provide notice and an opportunity	upor nall Ida (be ho)	
Any ow permit, afforded Code § hearing 3910.	01. oner or op or any pd an oppod 42-3909. 02. to the ho	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemperator aggrieved by the approval or disapproval of an application, or by conditions imposed the erson aggrieved by the Director's decision on a petition for exemption under these rules, slortunity for a hearing before the Board or its designated hearing officer in accordance with 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	upor nall Ida (be ho)	
Any ow permit, afforded Code § hearing 3910. 061. — 0	01. oner or op or any pd an oppod 42-3909. 02. to the ho	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemperator aggrieved by the approval or disapproval of an application, or by conditions imposed the erson aggrieved by the Director's decision on a petition for exemption under these rules, slortunity for a hearing before the Board or its designated hearing officer in accordance with the Hearings on Permit Cancellations. The Board shall provide notice and an opportunity polder of any permit proposed to be cancelled by the Director in accordance with Idaho Code (RESERVED)	upor nall Ida (ho ho a 2-	
Any ow permit, afforded Code § hearing 3910. 061. — 0	o1. oner or op or any pd an oppod 42-3909. o2. to the ho	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemperator aggrieved by the approval or disapproval of an application, or by conditions imposed the erson aggrieved by the Director's decision on a petition for exemption under these rules, slortunity for a hearing before the Board or its designated hearing officer in accordance with the 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 (RESERVED) ATIONS, FORMAL NOTIFICATION AND ENFORCEMENT.	upor nall Ida (ho ho a 2-	
Any ow permit, afforded Code § hearing 3910. 061. — 0	o1. There or open any performance of the horizontal description of	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemperator aggrieved by the approval or disapproval of an application, or by conditions imposed the erson aggrieved by the Director's decision on a petition for exemption under these rules, slortunity for a hearing before the Board or its designated hearing officer in accordance with the 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 (RESERVED) ATIONS, FORMAL NOTIFICATION AND ENFORCEMENT. Violations. It shall be a violation of these rules for any owner or operator to:	upor nall Ida (ho ho a 2-	
Any ow permit, afforded Code § hearing 3910. 061. — 0	HEARI 11. 7 or or op or any pd an oppod 42-3909. 12. 15 to the horo 16 to the horo 17 or op or any pd an oppod 42-3909. 18 to the horo 19 or op or any pd an oppod 42-3909. 10 or op or any pd an oppod 42-3909. 10 or op or any pd an oppod 42-3909. 11 or op or any pd an oppod 42-3909. 12 or op or any pd an oppod 42-3909. 13 or op or any pd an oppod 42-3909. 14 or op or any pd an oppod 42-3909. 15 or op or any pd an oppod 42-3909. 16 or op or any pd an oppod 42-3909. 17 or op or any pd an oppod 42-3909. 18 or op or any pd an oppod 42-3909. 18 or op or any pd an oppod 42-3909. 19 or op or any pd an oppod 42-3909. 10 or op or any pd an oppod 42-3909. 10 or op or any pd an oppod 42-3909. 10 or op or any pd an oppod 42-3909. 10 or op or op or any pd an oppod 42-3909. 10 or op or op or op or any pd an oppod 42-3909. 10 or op or any pd an oppod 42-3909. 10 or op or	Hearings on Conditional Permits, Disapproved Applications, or Petitions for Exemplerator aggrieved by the approval or disapproval of an application, or by conditions imposed the approval of the Board or its designated hearing officer in accordance with the 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 (RESERVED) TIONS, FORMAL NOTIFICATION AND ENFORCEMENT. 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;	upor nall Ida (ho ho a 2-	

071 999.	(RESERVED)		
,	Enforcement . Violation of any of the provisions of the Injection Well Act (Chapter 39, of any rule, regulation, standard or criteria pertaining to the Injection Well Act may resum an enforcement action as provided under Chapters 17 and 39, Title 42, Idaho Code.	ult in 1	-
	Additional . It shall be a violation of these rules for any person to construct, operate, a decommission or conduct any other activity in a manner which results or may result jection of a hazardous or radioactive waste by an injection well.		
g.	Decommission a well in an unauthorized manner.	()
f.	Fail to respond to any formal notification of a violation when a response is required; or	()
e. be maintained of	Falsify, tamper with or knowingly render inaccurate any monitoring device or method re rutilized by the terms and conditions of an issued permit;		l to)