

SECTION 16: GROUND WATER PROTECTION DISTRICT REGULATIONS

(added 3/10/2022)

16.1 Authority

The Town of Jackson hereby adopts this ordinance pursuant to the authority granted under RSA 674:16 as an Innovative Land Use Control pursuant to RSA 674:21.

16.2 Purpose

The purpose of this ordinance is, in the interest of public health, safety, and general welfare, to preserve, maintain, and protect from contamination existing and potential groundwater supply areas and to protect surface waters that are fed by groundwater. The purpose is to be accomplished by regulating land uses which could contribute pollutants to designated wells and/or aquifers identified as being needed for present and/or future public water supply.

16.3 Definitions

16.3.1 “Aquifer” means a geologic formation composed of rock, sand, or gravel that contains significant amounts of potentially recoverable water.

16.3.2 “Petroleum bulk plant or terminal” means that portion of the property where petroleum products are received by tank vessel, pipeline, tank car, or tank vehicle and are stored or blended in bulk for the purpose of distributing such liquids by tank vessel, pipeline, tank car, tank vehicle, portable tank, or container.

16.3.3 “Groundwater” means subsurface water that occurs beneath the water table in soils and geologic formations.

16.3.4 “Gasoline station” means that portion of a property where petroleum products are received by tank vessel pipeline, tank car, or tank vehicle and distributed for the purposes of retail sale of petroleum products.

16.3.5 “Impervious” means not readily permitting the infiltration of water.

16.3.6 “Impervious surface” means a surface through which regulated substances cannot pass when spilled. Impervious surfaces include concrete unless unsealed cracks or holes are present. Earthen, wooden, or gravel surfaces, or other surfaces which could react with or dissolve when in contact with the substances stored on them are not considered impervious surfaces.

16.3.7 “Junkyard” means a place used for storing and keeping, or storing and selling, trading, or otherwise transferring old or scrap copper, brass, rope, rags, batteries, paper, trash, rubber debris, waste or junked, dismantled, or wrecked motor vehicles, or parts thereof, iron, steel or other old or scrap ferrous or non-ferrous material, or for the maintenance or operation of an automotive recycling yard. The word does not include any motor vehicle dealers registered with the director of motor vehicles under RSA 261:104 and controlled under RSA 236:126.

16.3.8 “Outdoor storage” means storage of materials where they are not protected from the elements by a roof, walls, and a floor with an impervious surface.

16.3.9 “Positive limiting barrier (PLB)” is a depression (e.g., groove) in the surface of an otherwise level impervious area designed to impede the flow and contain spilled substances within the perimeter of the impervious area. PLBs are typically constructed and maintained to contain small spills or releases (five to fifteen gallons).

16.3.10 “Public water system” is a system for the provision to the public of piped water for human consumption, which has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

16.3.11 “Regulated substance” is petroleum, petroleum products, regulated contaminants for which an ambient groundwater quality standard has been established under RSA 485-C:6, and substances listed under 40CFR 302, 7-1-05 edition, excluding substances used in the treatment of drinking water or wastewater at department approved facilities.

16.3.12 “Sanitary protective radius” is the area around a public water supply well which must be maintained in its natural state as required by Env-Dw 301 or 302 (for community water systems) or Env-Dw 405.14 and 406.12 (for other public water systems).

16.3.13 “Seasonal high-water table” is the depth from the mineral soil surface to the upper most soil horizon that contains 2 percent or more distinct or prominent redoximorphic features that increase in percentage with increasing depth as determined by a licensed Hydrogeologist, Soils Scientist, Wetlands Scientist, Civil or Environmental Engineer or other qualified professional approved by the Planning Board, or the shallowest depth measured from ground surface to free water that stands in an unlined or screened borehole for at least a period of seven consecutive days.

16.3.14 “Secondary containment” is a structure such as a berm or dike with an impervious surface which is adequate to hold at least 110 percent of the volume of the largest regulated-substances container that will be stored there.

16.3.15 “Snow dump” means for the purposes of this ordinance, a location where snow, which is cleared from roadways and/or motor vehicle parking areas, is placed for disposal.

16.3.16 “Source control plan” is a plan designed to 1) minimize the volume of stormwater coming into contact with regulated substances and 2) segregate relatively clean stormwater from stormwater with a higher concentration of pollutants. (For further details see NH DES Alteration of Terrain Rule Env-Wq 1504.08.)

16.3.17 “Stratified-drift aquifer” is a geologic formation of predominantly well-sorted sediment deposited by or in bodies of glacial meltwater, including gravel, sand, silt, or clay, which contains

sufficient saturated permeable material to yield significant quantities of water to wells.

16.3.18 “Surface water” means streams, lakes, ponds and tidal waters, including marshes, watercourses and other bodies of water, natural or artificial.

16.3.19 “Wellhead protection area” is the surface and subsurface area surrounding a water well or wellfield supplying a community public water system, through which contaminants are reasonably likely to move toward and reach such water well or wellfield, as determined in Env-Dw 302.10 and Env-Dw 405

16.4 Groundwater Protection District

The Groundwater Protection District is an overlay district which is superimposed over the existing underlying zoning and includes within its boundaries, 1) all of the Wellhead Protection Areas for public water supply wells as defined under Section 16.3.10 and 2) the Stratified Drift Aquifer(s). These are shown on the map entitled, Town of Jackson Groundwater Protection District.

16.5 Applicability

This Ordinance applies to all uses in the Groundwater Protection District.

16.6 Permitted Uses

All uses permitted by right or allowed by special exception in the underlying district are permitted in the Groundwater Protection District unless they are Prohibited Uses or Conditional Uses. All uses must comply with the Performance Standards unless specifically exempt under Section 16.10.

16.7 Performance Standards for Permitted Uses

16.7.1 Animal manures, fertilizers, and compost must be stored in accordance with Manual of Best Management Practices for Agriculture in New Hampshire, NH

Department of Agriculture, Markets, and Food, (June 2011) and any subsequent revisions.

16.7.2 All regulated substances stored in containers with a capacity of five gallons or more must be stored in product-tight containers on an impervious surface designed and maintained to prevent flow to exposed soils, floor drains, and outside drains.

16.7.3 All transfers of petroleum from delivery trucks and storage containers over five gallons in capacity shall be conducted over an impervious surface having a positive limiting barrier at its perimeter following the Best Management Practices in Env-Wq 401.

16.7.4 Prior to any land disturbing activities, all inactive wells on the property, not in use or properly maintained at the time the plan is submitted, shall be considered abandoned and must be sealed in accordance with We 604 of the New Hampshire Water Well Board Rules.

16.7.5 Outdoor storage areas for regulated substances, associated material or waste must be protected from exposure to precipitation and must be located at least 50 feet from surface water or storm drains, at least 75 feet from private wells, and outside the sanitary protective radius of wells used by public water systems.

16.7.6 Secondary containment must be provided for outdoor storage of regulated substances in regulated containers and the containment structure must include a cover to minimize accumulation of water in the containment area and contact between precipitation and storage container(s).

16.7.7 Containers in which regulated substances are stored must be clearly and visibly labeled and must be kept closed and sealed when material is not being transferred from one container to another.

16.7.8 Facilities where regulated substances are stored must be secured against unauthorized entry by means of a door and/or gate that is locked when authorized personnel are not present and must be inspected weekly by the facility owner.

16.8 Existing Non-Conforming Uses

Existing non-conforming uses may continue without expanding or changing to another non-conforming use but must be in compliance with all applicable state and federal requirements, including Env-Wq 401, Best Management Practices Rules.

16.9 Prohibited Uses

The following uses are prohibited in the Groundwater Protection District.

16.9.1 The development or operation of a solid waste landfill.

16.9.2 The outdoor storage of road salt or other deicing chemicals in bulk.

16.9.3 The development or operation of a junkyard.

16.9.4 The development or operation of a snow dump.

16.9.5 The development or operation of a wastewater or septage lagoon.

16.9.6 The development or operation of a petroleum bulk plant or terminal.

16.9.7 The development or operation of gasoline stations.

16.10 Exemptions

The following uses are exempt from the specified provisions of this ordinance as long as they are in compliance with all applicable local, state, and federal requirements:

16.10.1 The sale, transportation, and use of pesticides as defined in RSA 430:29 XXVI is exempt from all provisions of this ordinance but must comply with all state and federal regulations.

16.10.2 Underground storage tank systems and aboveground storage tank systems that are in compliance with applicable state rules are exempt from inspections under 16.14.2 of this ordinance.

16.10.3 Storage of heating fuels for on-site use or fuels for emergency electric generation, provided that storage tanks are indoors on a concrete floor or have corrosion control, leak detection, and secondary containment in place, is exempt from Performance Standard 16.7.8;

16.10.4 The following are exempt from Performance standards 16.7.5 through 16.7.8:

16.10.4.1 Any business, facility or private residence where regulated substances are stored in containers with a capacity of less than five gallons.

16.10.4.2 Storage of motor fuel in tanks attached to vehicles and fitted with permanent fuel lines to enable the fuel to be used by that vehicle.

16.10.4.3 Storage and use of office supplies.

16.10.4.4 Temporary storage of construction materials on a site where they are to be used, if incorporated within the site development project within six months of their deposit on the site;

16.10.5 Household hazardous waste collection projects regulated under NH Code of Administrative Rules Env-Hw 401.03(b)(1) and 501.01(b)

16.11 Conditional Uses

16.11.1 The Planning Board may grant a Conditional Use Permit for a use which is otherwise permitted in the underlying district, if the permitted use is involved in one or more of the following:

16.11.1.1 Storage, handling, and use of regulated substances in quantities exceeding 55 gallons or 660 pounds dry weight at any one time, provided that an adequate spill prevention, control and countermeasure (SPCC) plan is approved by the Health Inspector, or qualified professional appointed by the Board of Selectmen.

16.11.1.2 Any use that will render impervious more than 15 percent or 2,500 square feet of any lot, whichever is greater.

16.11.1.3 Any activities that involve blasting of bedrock.

16.11.2 In granting such approval the Planning Board must first determine that the proposed use is not a prohibited use (as listed in 16.9 of this Ordinance) and will be in compliance with the Performance Standards in 16.7 as well as all applicable local, state and federal requirements.

16.11.3 The Planning Board may, at its discretion, require a performance guarantee or bond, in an amount and with surety conditions satisfactory to the Board, to be posted to ensure completion of construction of any facilities required for compliance with the Performance Standards.

16.12 Performance Standards for Conditional Uses

16.12.1 The following Performance Standards apply to all three conditional uses defined under 16.11.

16.12.2 Conditional uses shall require stormwater management and pollution prevention plans and include information consistent with Developing Your Stormwater Pollution Prevention Plan: A Guide for Industrial Operators (US EPA, Feb 2009) The plan shall demonstrate that the use will:

16.12.2.1 Meet minimum stormwater discharge setbacks between water supply wells and constructed stormwater practices as found within the Innovative Land Use Planning Techniques: A Handbook for Sustainable Development, Section 2.1 Permanent (Post- Construction) Stormwater Management, (NHDES, 2008 or later edition).

16.12.2.2 Minimize the release of regulated substances into stormwater through a source control plan that identifies pollution prevention measures.

16.12.2.3 Stipulate that expansion or redevelopment activities shall require an amended stormwater plan and may not infiltrate stormwater through areas containing contaminated soils without completing a Phase I Assessment in conformance with ASTM E 1527-05, also referred to as All Appropriate Inquiry (AAI).

16.12.2.4 Maintain a minimum of four feet vertical separation between the bottom of a stormwater facility that infiltrates, or filters stormwater and the average seasonal high-water table as determined by a licensed hydrogeologist, soil scientist, engineer or other qualified professional as determined by the Planning Board.

16.12.3 Storage, handling, and use of regulated substances in quantities exceeding 55 gallons or 660 pounds dry weight at any one time, provided that an adequate spill prevention, control and countermeasure (SPCC) plan is approved by the Health Inspector, or qualified professional appointed by the Board of Selectmen.

The Health Inspector, or qualified professional appointed by the Board of Selectmen, shall determine whether the (SPCC) plan will prevent, contain, and minimize releases from ordinary or catastrophic events such as spills, floods or fires that may cause large releases of regulated substances. The SPCC plan shall include:

16.12.3.1 A description of the physical layout and a facility diagram, including all surrounding surface waters and wellhead protection areas.

16.12.3.2 Contact list and phone numbers for the current facility response coordinator(s), cleanup contractors, and all appropriate federal, state, and local agencies who must be contacted in case of a release to the environment.

16.12.3.3 A list of all regulated substances in use and locations of use and storage.

16.12.3.4 A prediction of the direction, rate of flow, and total quantity of regulated substance that could be released where experience indicates a potential for equipment failure.

16.12.3.5 A description of containment and/or diversionary structures or equipment to prevent regulated substances from infiltrating into the ground.

16.12.3.6 List of positions within the facility that require training to respond to spills of regulated substances.

16.12.3.7 Prevention protocols that are to be followed after an event to limit future large releases of any regulated substance.

16.12.4 Any use that will render impervious more than 15 percent or more than 2,500 square feet of any lot, whichever is greater, requires a stormwater management plan to be prepared which is consistent with New Hampshire Stormwater Manual Volumes 1-3, December 2008, NH Department of Environmental Services.

16.12.5 Any activities that involve blasting of bedrock shall be planned and conducted to minimize groundwater contamination. Excavation activities should be planned and conducted to minimize adverse impacts to hydrology and the dewatering of nearby drinking water supply wells, following the Best Management Practices of RSA 155.

16.13 Relationship Between State and Local Requirements

Where both the State and the municipality have existing requirements the more stringent shall

govern.

16.14 Maintenance and Inspection

16.14.1 For uses requiring planning board approval for any reason, a narrative description of maintenance requirements for structures required to comply with Performance Standards shall be recorded so as to run with the land on which such structures are located, at the Registry of Deeds for Carroll County. The description so prepared shall comply with the requirements of RSA 478:4-a.

16.14.2 Inspections may be required to verify compliance with Performance Standards. Such inspections shall be performed by the Health Inspector, or qualified professional appointed by the Board of Selectmen, at reasonable times with prior notice to the landowner.

16.14.3 All properties in the Groundwater Protection District known to the Health Inspector, or qualified professional appointed by the Board of Selectmen, as using or storing regulated substances in containers with a capacity of five gallons or more, except for facilities where all regulated substances storage is exempt from this Ordinance under Section 16.10, shall be subject to inspections under this Article.

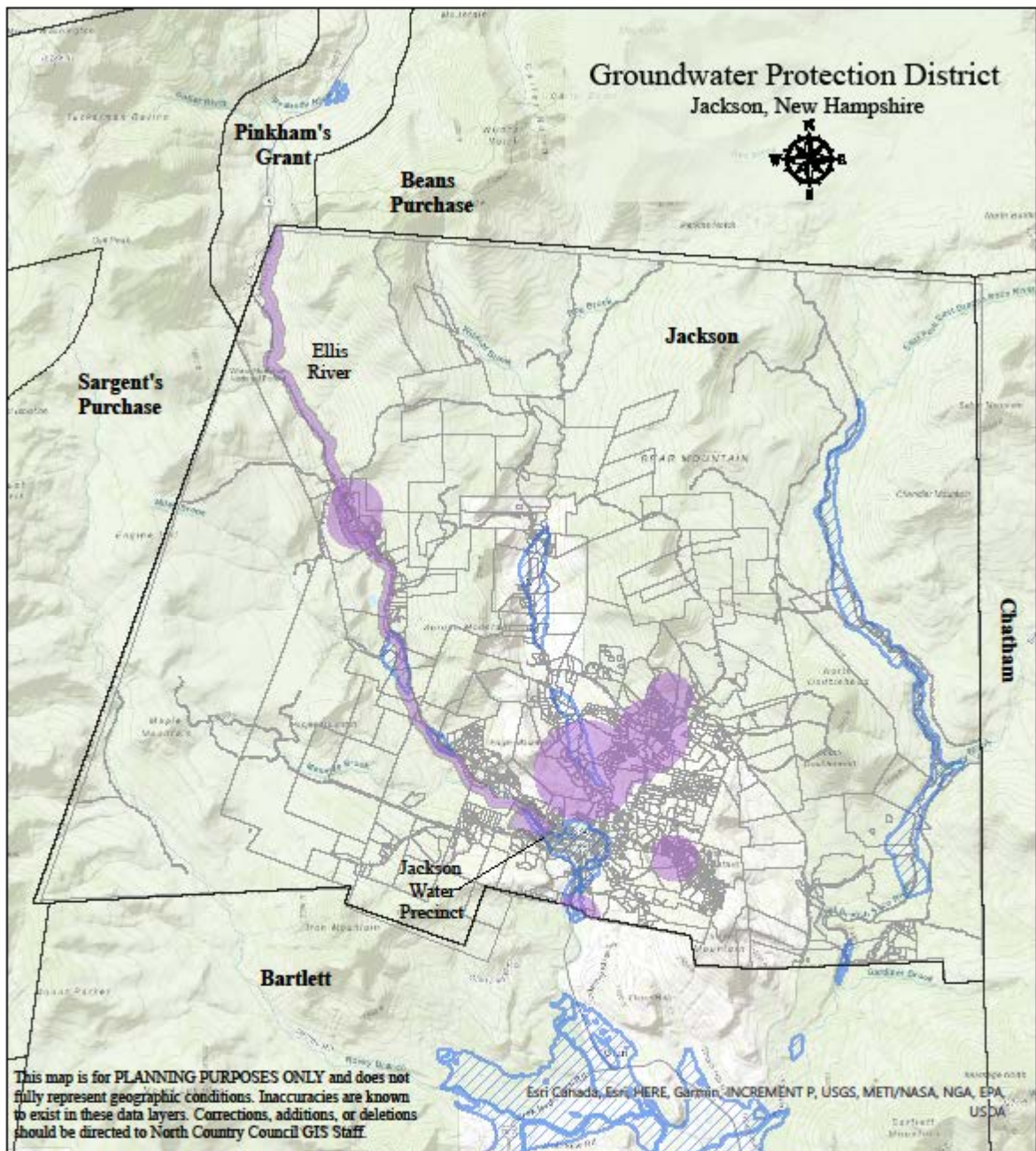
16.14.4 The Board of Selectmen may require a fee for compliance inspections. The fee shall be paid by the property owner. A fee schedule shall be established by the Board of Selectmen as provided for in RSA 41-9:a.

16.15 Enforcement Procedures and Penalties

Any violation of the requirements of this ordinance shall be subject to the enforcement procedures and penalties detailed in RSA 676 or RSA 485-C.

16.16 Effective Date

This ordinance shall be effective upon adoption by the legislative body. Approved March 2022



- Wellhead Protection Areas
- Jackson Water Precinct Protected Area
- Stratified Drift Aquifer
- Tax Parcels
- Jackson Town Boundary
- Neighboring Towns
- Roads

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Miles