

WATER

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CHAPTER 90

WATER SERVICE SYSTEM

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90.01 DEFINITIONS. The following terms are defined for use in the chapters in this Code of Ordinances pertaining to the Water Service System:

1. "Combined service account" means a customer service account for the provision of two or more utility services.
2. "Customer" means, in addition to any person receiving water service from the City, the owner of the property served, and as between such parties the duties, responsibilities, liabilities and obligations hereinafter imposed shall be joint and several.
3. "Superintendent" means the Superintendent of the City water system or any duly authorized assistant, agent or representative.
4. "Water main" means a water supply pipe provided for public or community use.
5. "Water service pipe" means the pipe from the water main to the building served.
6. "Water system" or "water works" means all public facilities for securing, collecting, storing, pumping, treating, and distributing water.

90.02 SUPERINTENDENT'S DUTIES. The Superintendent shall supervise the installation of water service pipes and their connection to the water main and enforce all regulations pertaining to water services in the City in accordance with this chapter. This chapter shall apply to all replacements of existing water service pipes as well as to new ones. The Superintendent shall make such rules, not in conflict with the provisions of this chapter, as may be needed for the detailed operation of the water system, subject to the approval of the Council. In the event of an emergency the Superintendent may make temporary rules for the protection of the system until due consideration by the Council may be had.

(Code of Iowa, Sec. 372.13[4])

90.03 MANDATORY CONNECTIONS. The owners of any houses, buildings or structures used for human occupancy, employment or use, situated within the City and abutting on any street, alley or right-of-way in which there is located a public water main are hereby required to connect such facilities to the City's public water system in accordance with the provisions of these Water Service chapters within 60 days after the date of official notice to do so, provided that said public water main is located within 100 feet of the property line of such owner.

90.04 ABANDONED CONNECTIONS. When an existing water service is abandoned or a service is renewed with a new tap in the main, all abandoned connections with the mains shall be turned off at the corporation stop and made absolutely watertight.

90.05 PERMIT. Before any person makes a connection with the public water system, a written permit must be obtained from the City. The application for the permit shall include a legal description of the property, the name of the property owner, the name and address of the person who will do the work, and the general uses of the water. If the proposed work meets all the requirements of this chapter and if all fees required under this chapter have been paid, the permit shall be issued. Work under any permit must be completed within 60 days after the permit is issued, except that when such time period is inequitable or unfair due to conditions beyond the control of the person making the application, an extension of time within which to complete the work may be granted. The permit may be revoked at any time for any violation of these chapters.

90.06 FEE FOR PERMIT AND CONNECTION CHARGE. Before any permit is issued the person who makes the application shall pay \$125.00 to the Clerk to cover the cost of issuing the permit and supervising, regulating, and inspecting the work. In addition there shall be a connection charge in the amount of \$125.00 paid before issuance of a permit to reimburse the City for costs borne by the City in making water service available to the property served.

(Code of Iowa, Sec. 384.84)

90.07 COMPLIANCE WITH PLUMBING CODE. The installation of any water service pipe and any connection with the water system shall comply with all pertinent and applicable provisions, whether regulatory, procedural or enforcement provisions, of the *State Plumbing Code*.

90.08 PLUMBER REQUIRED. All installations of water service pipes and connections to the water system shall be made by a State-licensed plumber.

90.09 EXCAVATIONS. All trench work, excavation, and backfilling required in making a connection shall be performed in accordance with the *State Plumbing Code* and the provisions of Chapter 135 of this Code of Ordinances.

90.10 TAPPING MAINS. All taps into water mains shall be made by or under the direct supervision of the Superintendent and in accordance with the following:

(Code of Iowa, Sec. 372.13[4])

1. Independent Services. No more than one house, building, or premises shall be supplied from one tap unless special written permission is obtained from the Superintendent and unless provision is made so that each house, building, or premises may be shut off independently of the other.
2. Sizes and Location of Taps. All mains six inches or less in diameter shall receive no larger than a three-fourths-inch tap. All mains of over six inches in diameter shall receive no larger than a one-inch tap. Where a larger connection than a one-inch tap is desired, two or more small taps or saddles shall be used, as the Superintendent shall order. All taps in the mains shall be made in the top half of the pipe, at least 18 inches apart. No main shall be tapped nearer than two feet of the joint in the main.
3. Corporation Stop. A brass corporation stop, of the pattern and weight approved by the Superintendent, shall be inserted in every tap in the main. The corporation stop in the main shall be of the same size as the service pipe.

4. Location Record. An accurate and dimensional sketch showing the exact location of the tap shall be filed with the Superintendent in such form as the Superintendent shall require.
5. Tapping Fee. A tapping fee is required for residential and commercial connections, in the following amount:
 - A. Residential Tapping Fee - \$250.00
 - B. Commercial Tapping Fee - \$500.00

90.11 INSTALLATION OF WATER SERVICE PIPE. Water service pipes from the main to the meter setting shall be Type K copper. The use of any other pipe material for the service line shall first be approved by the Superintendent. Pipe must be laid sufficiently waving, and to such depth, as to prevent rupture from settlement or freezing.

90.12 RESPONSIBILITY FOR WATER SERVICE PIPE. All costs and expenses incident to the installation, connection, and maintenance of the water service pipe from and including the curb stop to the building served shall be borne by the owner. The owner shall indemnify the City from any loss or damage that may directly or indirectly be occasioned by the installation or maintenance of said water service pipe.

90.13 FAILURE TO MAINTAIN. When any portion of the water service pipe which is the responsibility of the property owner becomes defective or creates a nuisance and the owner fails to correct such nuisance, the City may do so and assess the costs thereof to the property.

(Code of Iowa, Sec. 364.12[3a & h])

90.14 CURB VALVE. There shall be installed within the public right-of-way a main shut-off valve on the water service pipe of a pattern approved by the Superintendent. The shut-off valve shall be constructed to be visible and even with the pavement or ground.

90.15 INTERIOR VALVE. There shall be installed a shut-off valve on every service pipe inside the building as close to the entrance of the pipe within the building as possible and so located that the water can be shut off conveniently. Where one service pipe supplies more than one customer within the building, there shall be separate valves for each such customer so that service may be shut off for one without interfering with service to the others.

90.16 INSPECTION AND APPROVAL. All water service pipes and their connections to the water system must be inspected and approved in writing by the Superintendent before they are covered, and the Superintendent shall keep a record of such approvals. If the Superintendent refuses to approve the work, the plumber or property owner must proceed immediately to correct the work. Every person who uses or intends to use the municipal water system shall permit the Superintendent to enter the premises to inspect or make necessary alterations or repairs at all reasonable hours and on proof of authority.

90.17 COMPLETION BY THE CITY. Should any excavation be left open or only partly refilled for 24 hours after the water service pipe is installed and connected with the water system, or should the work be improperly done, the City shall have the right to finish or correct the work, and the Council shall assess the costs to the property owner or the plumber. If the plumber is assessed, the plumber must pay the costs before receiving another permit. If the property owner is assessed, such assessment may be collected with and in the same manner as general property taxes.

(Code of Iowa, Sec. 364.12[3a & h])

90.18 SHUTTING OFF WATER SUPPLY. The Superintendent may shut off the supply of water to any customer because of any violation of the regulations contained in these Water Service System chapters that is not being contested in good faith. The supply shall not be turned on again until all violations have been corrected and the Superintendent has ordered the water to be turned on. Water service shall be shut off especially for any of the following reasons:

1. Misrepresentation. Misrepresentation in the application as to the property or fixtures to be supplied or use to be made of water.
2. Failure to Report Use. Failure to report to the City addition to the property or fixtures to the supplies or additional use to be made of water.
3. Sale of Water. Resale or giving away of water.
4. Misuse. Waste or misuse of water due to improper or imperfect service pipes and/or fixtures, or failure to keep same in suitable state of repair.
5. Tampering. Tampering with meter, meter seal, service or valves or permitting such tampering by others.
6. Cross Connection. Connection, cross-connection or permitting same of any separate water supply to premises which receive water from the City.
7. Delinquency. Nonpayment of bills.
8. Failure to report a non-working meter.
9. Failure to permit right-of-way.

The supply shall not be turned on again until all violations have been corrected and the Superintendent has ordered the water to be turned on.

90.19 OPERATION OF CURB VALVE. It is unlawful for any person except the Superintendent or a plumber to turn water on at the curb valve, and said plumber shall take no action contrary to the orders of the Superintendent and shall leave the water off or on, as directed by the Superintendent.

90.20 FIRE HYDRANTS. No person, unless specifically authorized by the City, shall open or attempt to draw water from any fire hydrant for any purpose whatsoever.

90.21 BOILERS AND PRESSURE VESSELS. Customers having boilers and/or pressure vessels receiving a supply of water from the City must have a check valve on the water supply line and a vacuum valve on the steam line to prevent collapse in case the water supply from the City is discontinued or interrupted for any reason, with or without notice.

90.22 USE OF WATER RESTRICTED. Water furnished by the City may be used for domestic consumption by the customer, members of the customer's household and employees only. The customer shall not sell or give the water to any other person.

90.23 SERVICE INTERRUPTIONS. The City shall make all reasonable efforts to eliminate interruption of service, and when such interruptions occur will endeavor to reestablish service with the shortest possible delay. Whenever the service is interrupted for the purpose of working on the distribution system or the station equipment, all customers affected by such interruption will be notified in advance whenever it is possible to do so.

90.24 CITY LIABILITY LIMITED. The City shall in no event be held responsible for claims made against it by reason of the breaking of any mains, meters or service pipe or by reason of any other interruption of the supply of water caused by the breaking of machinery or stoppage for necessary repairs; and no person shall be entitled to damages or have any portion of a payment refunded for any interruption or service which, in the opinion of the City, may be deemed necessary.

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CHAPTER 91

WATER METERS

91.01 Purpose	91.07 Meter Repairs
91.02 Water Use Metered	91.08 Right of Entry
91.03 Fire Sprinkler Systems; Exception	91.09 Meter Installation Fee
91.04 Location of Meters	91.10 Accuracy Test
91.05 Meter Setting	91.11 Meter Testing
91.06 Meter Costs	91.12 Irrigation Meters

91.01 PURPOSE. The purpose of this chapter is to encourage the conservation of water and facilitate the equitable distribution of charges for water service among customers.

91.02 WATER USE METERED. All water furnished customers shall be measured through meters furnished by the City and installed by the licensed plumber.

91.03 FIRE SPRINKLER SYSTEMS; EXCEPTION. Fire sprinkler systems may be connected to water mains by direct connection without meters under the direct supervision of the Superintendent. No other open, unmetered connection shall be incorporated in the system, and there shall be no valves except a main control valve at the entrance to the building which must be sealed open.

91.04 LOCATION OF METERS. All meters shall be so located that they are easily accessible to meter readers and repairmen and protected from freezing.

91.05 METER SETTING. The property owner shall provide all necessary piping and fittings for proper setting of the meter including a valve on the discharge side of the meter. Meter pits may be used only upon approval of the Superintendent and shall be of a design and construction approved by the Superintendent.

91.06 METER COSTS. The full cost of any meter larger than that required for a single-family residence shall be paid to the City by the property owner or customer prior to the installation of any such meter by the City, or, at the sole option of the City, the property owner or customer may be required to purchase and install such meter in accordance with requirements established by the City.

91.07 METER REPAIRS. Whenever a water meter owned by the City is found to be out of order the Superintendent shall have it repaired. If it is found that damage to the meter has occurred due to the carelessness or negligence of the customer or property owner, or the meter is not owned by the City, then the property owner shall be liable for the cost of repairs.

91.08 RIGHT OF ENTRY. The Superintendent shall be permitted to enter the premises of any customer at any reasonable time to read, remove, or change a meter.

91.09 METER INSTALLATION FEE. There shall be a fee charged to the property owner for each new installation of a water meter at a rate equal to the cost of meter and supplies plus \$100.00 installation fee.

91.10 ACCURACY TEST. The Superintendent shall make a test of the accuracy of any water meter at any time when requested in writing, but not more often than once in six months.

Such request shall be accompanied by a refundable deposit of \$5.00, guaranteeing payment of costs if found due. If the meter is found to overrun to the extent of two percent or more, the cost of the test shall be paid by the City and a refund shall be made to the customer for overcharges collected since the last known date of accuracy but not for longer than three months, plus the meter test deposit. If the meter is found to be accurate or slow, or less than two percent fast, the customer deposit shall be forfeited as the reasonable costs of the test, and the customer shall be liable for any deficiency over two percent up to three months.

91.11 METER TESTING. The Superintendent or any designee shall make a test of the accuracy of any water meter at any time when requested in writing. If it is found that such meter overruns to the extent of three percent or more, the cost of the test shall be paid by the City and a refund shall be made to the customer for overcharges collected since the last known date of accuracy, but not more than three percent of the total water bill and not for a longer period than three months. If the meter is found to be accurate or slow or less than three percent fast, the user shall pay a testing charge of \$25.00.

91.12 IRRIGATION METERS. Water use for irrigation (defined as lawn, yard, or garden watering) is strictly of a non-household nature and will be entirely separate from normal in-home usage. A water meter for the sole purpose of measuring irrigation usage (in order to qualify for a sewer use credit) shall be installed as follows:

1. A plumber shall make any plumbing changes necessary to install a second water meter. Any expense incurred shall be borne by the property owner, lessee or the renter with the property owner's permission.
2. The incoming water service line shall be split inside the residence or building, allowing the installation of a second water meter and re-setter.
3. In-ground irrigation systems shall have a double check valve back-flow prevention assembly if the irrigation outlets are *above* the device or a reduced pressure zone ("RPZ") back-flow prevention device if the outlets are *below* the device. Property owners, lessees or renters without in-ground irrigation systems may install an irrigation meter on a dedicated outside hose bibb supply. (The hose bibb supply shall have no other outlet or piping supplying any usage except the hose bibb.) The meter re-setter shall contain a double check valve back-flow prevention device. The hose bibb shall have a hose bibb back-flow prevention device attached. Property owners, lessees or renters shall be responsible for the purchase of all back-flow prevention devices. All back-flow prevention devices must be testable and must be approved by the Utility Superintendent or the Council.
4. An annual inspection of the back-flow prevention device by a certified inspector shall be required. The inspector shall provide the City with a copy of the inspection report. The property owner, lessee or renter shall be responsible and liable for any and all costs associated with the annual inspection. Failure of the back-flow prevention device, in any annual inspection, shall result in an immediate discontinuance of water service to the irrigation meter. Water service may be restored when the property owner, lessee or renter has corrected the problem with the back-flow preventer and a certified inspector shall have approved the device.
5. The City Council shall determine, by resolution, an appropriate fee payable by the property owner, lessee or renter for the purchase of the irrigation meter, re-setter and the outside reader and their installation by City personnel. The Council shall re-evaluate and increase the fee as necessary by resolution.

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CHAPTER 92

WATER RATES

92.01 Service Charges
 92.02 Rates For Service
 92.03 Rates Outside the City
 92.04 Billing for Water Service
 92.05 Service Discontinued
 92.06 Lien for Nonpayment

92.07 Lien Exemption
 92.08 Lien Notice
 92.09 Customer Deposits
 92.10 Temporary Vacancy
 92.11 Construction Use

92.01 SERVICE CHARGES. Each customer shall pay for water service provided by the City based upon use of water as determined by meters provided for in Chapter 91. Each location, building, premises or connection shall be considered a separate and distinct customer whether owned or controlled by the same person or not.

(Code of Iowa, Sec. 384.84)

92.02 RATES FOR SERVICE. Water service shall be furnished at the following monthly rates within the City:

(Code of Iowa, Sec. 384.84)

	January 1 2021	January 1 2022	January 1 2023	January 1 2024	January 1 2025
Minimum (2,000 gallons and less)	\$15.90	\$16.10	\$16.10	\$17.00	\$17.50
Usage over 2,000 gallons	\$5.40/1,000	\$5.40/1,000	\$5.50/1,000	\$5.60/1,000	\$5.60/1,000

92.03 RATES OUTSIDE THE CITY. Water service shall be provided to any customer located outside the corporate limits of the City which the City has agreed to serve at rates one and one-half times the rates provided in Section 92.02. No such customer, however, will be served unless the customer shall have signed a service contract agreeing to be bound by the ordinances, rules, and regulations applying to water service established by the Council.

(Code of Iowa, Sec. 364.4 & 384.84)

92.04 BILLING FOR WATER SERVICE. Water service shall be billed as part of a combined service account, payable in accordance with the following:

(Code of Iowa, Sec. 384.84)

1. **Bills Issued.** The Clerk shall prepare and issue bills for combined service accounts on or before the first day of each month. Bills and notices relating to the conduct of the business of the City's water service department will be mailed to the customer at the address listed on the application, unless a change of address has been filed in writing at the business office of the City; and the City shall not otherwise be responsible for delivery of any bill or notice, nor will the customer be excused from nonpayment of a bill or from any performance required in said notice.
2. **Bills Payable.** Bills for combined service accounts shall be due and payable at the office of the Clerk by the twentieth day of the same month.

3. Late Payment Penalty. Bills not paid when due shall be considered delinquent. A late payment penalty of \$10.00 shall be added to each delinquent bill. A waiver of the late payment penalty shall be granted to each customer once each calendar year.
4. Returned Check or ACH Payment Charge. If a check draft or ACH draft received in payment of a combined service account is returned due to insufficient funds, a handling fee of \$25.00 shall be added to the account.
5. Estimated Readings. Where a meter has ceased to register or meter reading could not be obtained, the quantity of water consumed for billing purposes will be based upon an average of the prior six months' consumption, and the conditions of water usage expected during the period in which the meter failed to register. Any exception to the such estimate will be handled by the Council on an individual basis.

92.05 SERVICE DISCONTINUED. Water service to delinquent customers shall be discontinued or disconnected in accordance with the following:

(Code of Iowa, Sec. 384.84)

1. Notice. The City Clerk shall notify each delinquent customer that service will be discontinued or disconnected if payment of the combined service account is not received by the date specified in the notice of delinquency. Such notice shall be sent by ordinary mail to the customer in whose name the delinquent charges were incurred and shall inform the customer of the nature of the delinquency and afford the customer the opportunity for a hearing prior to the discontinuance or disconnection.
2. Notice to Landlords. If the customer is a tenant, and if the owner or landlord of the property or premises has made a written request for notice, the notice of delinquency shall also be given to the owner or landlord. If the customer is a tenant and requests a change of name for service under the account, such request shall be sent to the owner or landlord of the property if the owner or landlord has made a written request for notice of any change of name for service under the account to the rental property.
3. Hearing. If a hearing is requested by noon of the day preceding the shut off, the City Administrator shall conduct an informal hearing and shall make a determination as to whether the discontinuance or disconnection is justified. The customer has the right to appeal the City Administrator's decision to the Council, and if the Council finds that discontinuance or disconnection is justified, then such discontinuance or disconnection shall be made, unless payment has been received.
4. Fees. A fee of \$50.00 shall be charged before service is restored to a delinquent customer. No fee shall be charged for the usual or customary trips in the regular changes in occupancies of property. For service after hours, on weekends and holidays, the fee is \$85.00.

92.06 LIEN FOR NONPAYMENT. The owner of the premises served and any lessee or tenant thereof shall be jointly and severally liable for water service charges to the premises. Water service charges remaining unpaid and delinquent shall constitute a lien upon the property or premises served and shall be certified by the Clerk to the County Treasurer for collection in the same manner as property taxes.

(Code of Iowa, Sec. 384.84)

92.07 LIEN EXEMPTION.

(Code of Iowa, Sec. 384.84)

1. **Water Service Exemption.** The lien for nonpayment shall not apply to charges for water service to a residential or commercial rental property where water service is separately metered and the rates or charges for the water service are paid directly to the City by the tenant, if the landlord gives written notice to the City that the property is residential or commercial rental property and that the tenant is liable for the rates or charges. The City may require a deposit not exceeding the usual cost of 90 days of such services to be paid to the City. When the tenant moves from the rental property, the City shall refund the deposit if all service charges are paid in full. The lien exemption does not apply to delinquent charges for repairs related to any of the services.
2. **Other Service Exemption.** The lien for nonpayment shall also not apply to the charges for any of the services of sewer systems, storm water drainage systems, sewage treatment, solid waste collection, and solid waste disposal for a residential rental property where the charge is paid directly to the City by the tenant, if the landlord gives written notice to the City that the property is residential rental property and that the tenant is liable for the rates or charges for such service. The City may require a deposit not exceeding the usual cost of 90 days of such services to be paid to the City. When the tenant moves from the rental property, the City shall refund the deposit if all service charges are paid in full. The lien exemption does not apply to delinquent charges for repairs related to any of the services.
3. **Written Notice.** The landlord's written notice shall contain the name of the tenant responsible for charges, the address of the residential or commercial rental property that the tenant is to occupy, and the date that the occupancy begins. Upon receipt, the City shall acknowledge the notice and deposit. A change in tenant for a residential rental property shall require a new written notice to be given to the City within 30 business days of the change in tenant. A change in tenant for a commercial rental property shall require a new written notice to be given to the City within 10 business days of the change in tenant. A change in the ownership of the residential rental property shall require written notice of such change to be given to the City within 30 business days of the completion of the change of ownership. A change in the ownership of the commercial rental property shall require written notice of such change to be given to the City within 10 business days of the completion of the change of ownership.
4. **Mobile Homes, Modular Homes, and Manufactured Homes.** A lien for nonpayment of utility services described in Subsections 1 and 2 of this section shall not be placed upon a premises that is a mobile home, modular home, or manufactured home if the mobile home, modular home, or manufactured home is owned by a tenant of and located in a mobile home park or manufactured home community and the mobile home park or manufactured home community owner or manager is the account holder, unless the lease agreement specifies that the tenant is responsible for payment of a portion of the rates or charges billed to the account holder.

92.08 LIEN NOTICE. A lien for delinquent water service charges shall not be certified to the County Treasurer unless prior written notice of intent to certify a lien is given to the customer in whose name the delinquent charges were incurred. If the customer is a tenant and if the owner or landlord of the property or premises has made a written request for notice, the notice shall

also be given to the owner or landlord. The notice shall be sent to the appropriate persons by ordinary mail not less than 30 days prior to certification of the lien to the County Treasurer.

(Code of Iowa, Sec. 384.84)

92.09 CUSTOMER DEPOSITS. There shall be required from every customer a \$75.00 deposit intended to guarantee the payment of bills for service.

(Code of Iowa, Sec. 384.84)

92.10 TEMPORARY VACANCY. A property owner may request water service be temporarily discontinued and shut off at the curb valve when the property is expected to be vacant for an extended period of time. During a period when service is temporarily discontinued as provided herein there shall be no minimum service charge. The City will not drain pipes or pull meters for temporary vacancies.

92.11 CONSTRUCTION USE. Water for building or construction purposes will be furnished by meter measurement, only after suitable deposit has been made, the minimum deposit being \$10.00, and the amount to be determined by the City depending upon the size of the construction work contemplated. All water for building or construction purposes, as set forth in the permit, must pass through one and the same meter. Water so supplied shall be discharged through a hose or pipe directly upon material to be wet, or into a barrel or other container, and in no case upon the ground or into or through a ditch or trench, and all use of water by other than the applicant or use of water for any purpose or upon any premises not so stated or described in the application must be prevented by the applicant, or water service may be discontinued without notice.

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CHAPTER 93

WELL PROTECTION

93.01 Definitions
93.02 Application

93.03 Exception
93.04 Nonconforming Uses

93.01 DEFINITIONS. The following terms are defined as used in this chapter:

1. “Aquifer” means a rock formation, group of rock formations, or part of a rock formation that contains enough saturated permeable materials to yield significant quantities of water.
2. “Contamination” means the presence of any harmful or deleterious substances in the water supply.
3. “Deep public well” means a public well located and constructed in such a manner that there is a continuous layer of low permeability soil or rock at least five feet thick located at least 25 feet below the normal ground surface and above the aquifer from which the water is drawn.
4. “Shallow public well” means a public well located and constructed in such a manner that there is not a continuous layer of low permeability soil or rock at least five feet thick located at least 25 feet below the normal ground surface and above the aquifer from which the water is drawn.
5. “Well” means a pit or hole sunk into the earth to reach a resource supply such as water.

93.02 APPLICATION. No structure or facility of the enumerated types set out in the following Table A shall be located within the distances set forth in said Table from public wells within the City.

93.03 EXCEPTION. Proscriptions set forth in Table A apply to all public water wells existing within the City except public water wells formerly abandoned for use by resolution of the Council.

93.04 NONCONFORMING USES. The use of structures or facilities existing as of the date of adoption of the ordinance codified in this chapter may be continued even though such use may not conform to the regulations in this chapter; in other words, such uses may be located within the distances set forth. However, such structure or facility that is not in conformance with the terms of this chapter may not be enlarged, extended, reconstructed, or substituted subsequent to the such date.

TABLE A: SEPARATION DISTANCES

SOURCE OF CONTAMINATION	REQUIRED MINIMUM LATERAL DISTANCE FROM WELL AS HORIZONTAL ON THE GROUND SURFACE, IN FEET	
	Deep Well ¹	Shallow Well ¹
WASTEWATER STRUCTURES:		
Point of Discharge to Ground Surface		
Sanitary and industrial discharges	400	400
Water treatment plant wastes	50	50
Well house floor drains	5	5
Sewers and Drains ²		
Sanitary and storm sewers, drains	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer pipe	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer main pipe
Sewer force mains	0 – 75 feet: prohibited 75 – 400 feet if water main pipe 400 – 1,000 feet if sanitary sewer pipe	0 – 75 feet: prohibited 75 – 400 feet if water main pipe 400 – 1,000 feet if sanitary sewer main pipe
Water plant treatment process wastes that are treated onsite	0 – 5 feet: prohibited 5 – 50 feet if sanitary sewer pipe	0 – 5 feet: prohibited 5 – 50 feet if sanitary sewer main pipe
Water plant wastes to sanitary sewer	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer pipe	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer main pipe
Well house floor drains to sewers	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer pipe	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer main pipe
Well house floor drains to surface	0 – 5 feet: prohibited	0 – 5 feet: prohibited

	5 – 50 feet if sanitary sewer pipe	5 – 50 feet if sanitary sewer main pipe
Land Disposal of Treated Wastes		
Irrigation of wastewater	200	400
Land application of solid wastes ³	200	400
Other		
Cesspools and earth pit privies	200	400
Concrete vaults and septic tanks	100	200
Lagoons	400	1,000
Mechanical wastewater treatment plants	200	400
Soil absorption fields	200	400

SOURCE OF CONTAMINATION	REQUIRED MINIMUM LATERAL DISTANCE FROM WELL AS HORIZONTAL ON THE GROUND SURFACE, IN FEET	
	Deep Well ¹	Shallow Well ¹
CHEMICALS:		
Chemical application to ground surface	100	200
Chemical & mineral storage above ground	100	200
Chemical & mineral storage on or under ground	200	400
Transmission pipelines (such as fertilizer, liquid petroleum, or anhydrous ammonia)	200	400
ANIMALS:		
Animal pasturage	50	50
Animal enclosure	200	400
Earthen silage storage trench or pit	100	200
Animal Wastes		
Land application of liquid or slurry	200	400
Land application of solids	200	400
Solids stockpile	200	400
Storage basin or lagoon	400	1,000
Storage tank	200	400
MISCELLANEOUS:		
Basements, pits, sumps	10	10
Cemeteries	200	200
Cisterns	50	100
Flowing streams or other surface water bodies	50	50
GHEX loop boreholes	200	200
Railroads	100	200
Private wells	200	400
Solid waste landfills and disposal sites ⁴	1,000	1,000

¹ Deep and shallow wells, as defined in IAC 567-40.2(455B): A deep well is a well located and constructed in such a manner that there is a continuous layer of low permeability soil or rock at least five feet thick located at least 25 feet below the normal ground surface and above the aquifer from which water is to be drawn. A shallow well is a well located and constructed in such a manner that there is not a continuous layer of low permeability soil or rock (or equivalent retarding mechanism acceptable to the department) at least five feet thick, the top of which is located at least 25 feet below the normal ground surface and above the aquifer from which water is to be drawn.

² The separation distances are dependent upon two factors: the type of piping that is in the existing sewer or drain, as noted in the table, and that the piping was properly installed in accordance with the standards.

³ Solid wastes are those derived from the treatment of water or wastewater. Certain types of solid wastes from water treatment processes may be land-applied within the separation distance on an individual, case-by-case basis.

⁴ Solid waste means garbage, refuse, rubbish, and other similar discarded solid or semisolid materials, including but not limited to such materials resulting from industrial, commercial, agricultural, and domestic activities.

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