

RULES OF THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT  
CHAPTER 40A-3, FLORIDA ADMINISTRATIVE CODE

# REGULATION OF WELLS



Effective March 1, 2000  
Regulatory Guidelines #2000-2



**NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT  
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(Revised March 1, 2000)**

<b>REGULATION OF WELLS .....</b>	<b>1</b>
40A-3.011 Policy and Purpose.....	1
40A-3.021 Definitions.....	1
40A-3.031 Implementation. ....	5
40A-3.032 Delegation.....	6
40A-3.037 Water Well Contractor Licensing.....	6
40A-3.038 Violations of Licensing Requirements.....	6
<b>PART I - PERMITTING OF WELLS.....</b>	<b>7</b>
40A-3.040 Scope of Part I.....	7
40A-3.041 Permits Required.....	7
40A-3.051 Exemptions. ....	9
40A-3.201 Permit Application Fees.....	9
40A-3.301 Conditions for Issuance of Permits.....	11
40A-3.321 Duration of Permits.....	13
40A-3.341 Disapproval of Wells. ....	13
40A-3.342 Permit Denial. ....	13
40A-3.411 Completion Reports. ....	14
40A-3.451 Emergency Authorization.....	14
40A-3.461 Inspections. ....	15
40A-3.492 Violations of Permits. ....	15
<b>PART II - CONSTRUCTION, REPAIR, AND ABANDONMENT STANDARDS.....</b>	<b>16</b>
40A-3.500 Scope of Part II. ....	16
40A-3.502 Construction Methods.....	16
40A-3.504 Location. ....	16
40A-3.507 Casing and Liner Pipe Standards.....	18
40A-3.512 Standard Well Construction Methods.....	21
40A-3.517 Grouting and Sealing. ....	22
40A-3.521 Well Seals. ....	27
40A-3.525 Explosives.....	27
40A-3.529 Flowing Wells.....	27
40A-3.531 Abandoned Well Plugging.....	27
40A-3.550 Violations of Construction Standards.....	28
40A-3.701 Construction Standards.....	28
<b>PART III - DRILLER REGISTRATION .....</b>	<b>29</b>
40A-3.721 Driller Registration. ....	29
40A-3.725 Responsibility of Contractor.....	29
40A-3.727 Type of Registration. ....	29
40A-3.733 Exemptions. ....	29

40A-3.751	Enforcement and Penalties.....	29
40A-3.752	Refusal, Suspension, or Revocation of Registration.....	29
40A-3.763	Examinations.....	29
40A-3.901	Forms and Instructions.....	29

**PART IV - SUSPENSION AND REVOCATION OF WATER WELL CONTRACTOR LICENSES.....30**

40A-3.951	Introduction.....	30
40A-3.952	Violations.....	30
40A-3.953	Procedure.....	30
40A-3.954	Reporting of Drillers Not Required to be Licensed.....	30
40A-3.955	Suspension; Suspension with Conditions.....	30
40A-3.956	Revocation.....	30

**PART V - ENFORCEMENT AND PENALTIES.....30**

40A-3.980	Enforcement and Penalties.....	30
-----------	--------------------------------	----

**APPENDIX I - GROUT LINE.....31**

	Letter of Authorization.....	31
	Boundaries.....	33
	Jefferson County.....	33
	Wakulla County.....	33
	Franklin County.....	33
	Gulf County.....	34
	Bay County.....	34
	Walton County.....	35
	Okaloosa County.....	35
	Santa Rosa County.....	35

**APPENDIX II**

	Application to Construct, Repair, Modify, or Abandon a Well Form.....	37
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**APPENDIX III**

	Well Completion Report Form.....	39
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## REGULATION OF WELLS

### 40A-3.011 POLICY AND PURPOSE.

- (1) The purpose of Chapter 40A-3, Florida Administrative Code, is to implement the duties and responsibilities of the District under Part III, Chapter 373, Florida Statutes, and those responsibilities and duties delegated to the District by the Department of Environmental Protection relative to regulating the location, construction, repair, or abandonment of wells, and the licensing of water well contractors. It is the policy of the Board that these rules are a reasonable necessity to insure the protection and management of water resources and the health, safety, and general welfare of the people of this District.
- (2) The rules in this Chapter implement the regulation of wells and licensing of water well contractors through the following parts:
  - (a) Part I of this Chapter establishes a permitting system for the location, construction, repair or abandonment of wells.
  - (b) Part II of this Chapter establishes the minimum standards for the construction, repair, or abandonment of wells.
  - (c) Part IV of this Chapter provides for suspension and revocation of water well contractor licenses.
  - (d) Part V of this Chapter provides for enforcement and penalties.

- (e) Rules relating to water well contractor licensing are found in Chapter 62-531, Florida Administrative Code, adopted by reference in Section 40A-3.037 of these rules.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.333, 373.337, FS.

Law Implemented: 373.306, 373.308, 373.309, 373.313, 373.316, 373.323(2), 373.324, 373.326, 373.329, 373.333, 373.342, FS.

History—New 4-14-80; Amended 4-13-81, 2-1-82, 10-1-84, 1-9-86, 8-1-89; Formerly 16G-3.01.

### 40A-3.021 DEFINITIONS.

The following words and phrases, when used in these rules, shall have the following meanings, except where the context clearly indicates a different meaning:

- (1) “*Abandonment*” means the act, whether intentional or unintentional, of allowing a well to attain the condition of an abandoned well.
- (2) “*Abandoned Well*” means a well the use of which has been permanently discontinued. Any well shall be deemed abandoned which is in such a state of disrepair, as determined by a representative of the District, that continued use for the purpose of obtaining ground water or disposing of water or liquid wastes is impracticable.
- (3) “*Aesthetic Use*” means the use of water for fountains, waterfalls, and landscape lakes and ponds where such uses are ornamental and decorative.
- (4) “*Agricultural Irrigation Use*” means the use of water for the commercial production of crops or the growing of farm products, including vegetables, citrus, pasture, nursery stock, turf grass, and sod.

- (5) “**Annulus**” or “**Annular Space**” means any artificially created void existing between a well casing or liner pipe and a borehole wall.
- (6) “**Aquacultural Use**” includes the use of water for spawning, cultivating, harvesting, or marketing of fin-fish, shellfish, crustaceans, frogs, turtles, and other aquatic organisms that have a sport or other economic value.
- (7) “**Aquifer**” means a subsurface geologic unit capable of yielding significant quantities of water to wells and springs.
- (8) “**Aquifer Restoration Well**” means a well used for the withdrawal of water for the purpose of recovering contaminant(s) to restore or improve the quality of the water within an aquifer.
- (9) “**Artificial Recharge**” means the intentional introduction of water into any underground formation by means of a recharge or injection well.
- (10) “**Artificial Recharge Facility**” means any facility constructed for the intentional introduction of water into any underground formation.
- (11) “**Board**” means the Governing Board of the Northwest Florida Water Management District.
- (12) “**Certified Receipt**” means the date and time an application for a permit is stamped as received in the District office.
- (13) “**Commercial Use**” includes small businesses and facilities in which water is the prime ingredient of the service

rendered, such as a car wash and laundromat.

- (14) “**Contractor**” means any person licensed in accordance with Chapter 62-531, Florida Administrative Code, and engaged in the business of construction, repair, or abandonment of wells.
- (15) “**Construction of Wells**” means all parts and acts necessary to obtain ground water by wells, including the location and excavation of the wells, but excluding the installation of pumps and pumping equipment.
- (16) “**Department**” means the Department of Environmental Protection (DEP) or its successor agency or agencies.
- (17) “**Domestic Self Supply Use**” means the use of water for household purposes such as drinking, bathing, cooking, sanitation, or cleaning, which occurs in a private residence, and includes no more than one rental residence or no more than four nonrental residences served by one well.
- (18) “**Dewatering Use**” means the removal of water from a specific area to facilitate mining or construction.
- (19) “**District**” means the Northwest Florida Water Management District operating under the authority of Chapter 373, Florida Statutes.
- (20) “**Diversion and Impoundment into Non-District Facilities Use**” means the diversion or extraction of water into non-District impoundments and delivery systems designed for such purposes as maintaining structural integrity, providing agricultural water

and other non-recreational, non-aesthetic use.

- (21) **“Drive Shoe”** means any device specifically designed, fabricated, and installed to protect the bottom end of a water well casing or liner pipe from collapse or other damage while the casing or liner pipe is being driven into place in a well.
- (22) **“Essential Use”** includes the use of water strictly for fire-fighting purposes, health and medical purposes, and the use of water to satisfy federal, state, or local public health and safety requirements.
- (23) **“Freeze Protection”** includes the periodic and infrequent use of water to protect agricultural and nursery crops from permanent damage due to low temperatures.
- (24) **“Golf Course Irrigation Use”** is the use of water to irrigate golf courses.
- (25) **“Grout”** means a mixture consisting of water and Portland cement (American Concrete Institute type I or American Concrete Institute type III), sand and Portland cement mixed at three parts sand to one part cement by weight, or other approved types of cement and acceptable amounts of those additives approved by the District for use in cement grouts. The use of alternative methods or materials shall not cause degradation of the water resource. Grout composition shall not exceed six (6) gallons of water per cubic foot or sack of cement.
- (26) **“Heating or Cooling Use”** means the use of water for heating, air-conditioning, or other cooling uses.

(27) **“Industrial Use”** includes those many uses wherein the water serves the purposes of manufacturing, commerce, trade or industry.

(28) **“Injection Well”** means a well for the express purpose of introducing under pressure any water into underground formations. This includes return wells for air conditioning systems and injection of water under pressure into underground formations for the possible purpose of storage and later recovery.

(29) **“Landscape Irrigation Use”** is the outside watering of plants, shrubs, grass, trees, and other such flora in landscapes surrounding homes, non-commercial house-hold gardens, industrial buildings, parks, recreational areas, cemeteries, public right-of ways, and medians.

(30) **“Livestock and Other Animals Use”** includes water for drinking by or washing of livestock, including zoo animals.

(31) **“Mining Use”** includes use wherein the water is applied for the extraction, transportation, or processing of minerals.

(32) **“Navigation Use”** means water discharged from ground or surface sources either to tide water or to downstream lakes or reaches of rivers or canals for the purpose of permitting or protecting boating activity.

(33) **“Nursery Irrigation Use”** (Non agricultural) is the use of water on premises on or in which nursery stock is held for sale, distribution or is sold or reshipped. This term does not apply to

water used for production of nursery stock.

- (34) **“Other Outside Use”** means the use of water outdoors for dust control, maintenance, cleaning, and washing of structures and mobile equipment, including automobiles and the washing of streets, driveways, sidewalks, and similar areas.
- (35) **“Limited Use Public Supply”** means the use of water in public water systems not covered under the definitions of Domestic Self Supply Use or Public Water Supply Use of this section, and which is further defined as either:
- (a) **“Limited Use Commercial Public Water Systems Use”** means the use of water by one or more nonresidential establishments; or
- (b) **“Limited Use Community Public Water System Use”** means the use of water by five or more private residences or two or more rental residences.
- (36) **“Perishable Food Processing Use”** includes industrial uses involving the processing of perishable food.
- (37) **“Power Production Use”** includes use for steam or co-generation and the use of water for cooling and for replenishment of cooling reservoirs.
- (38) **“Public Water Supply Use”** is the use of water as defined by the Florida Safe Drinking Water Act, and means the use of water by a Public Water System.
- (39) **“Public Water System”** means a system for supplying water for human consumption, if such system has at least

15 service connections or regularly serves at least 25 individuals daily at least 60 days out of the year. A Community Water System is a public water system which has at least 15 service connections used by year-round residents or which regularly serves at least 25 year-round residents. A Non-Community Water System is a public water system which serves at least 25 individuals daily at least 60 days out of the year but the individuals served are not year-round residents and may be transients.

- (40) **“Recharge Well”** means a well for the express purpose of introducing any waters into any underground formation. This definition shall include drainage or connector wells.
- (a) **“Drainage Well”** generally describes a well for the express purpose of disposing of excess surface waters by gravity flow into any underground formation.
- (b) **“Connector Well”** is a well for the express purpose of draining one aquifer and allowing this water to recharge another aquifer (interaquifer transfer).
- (41) **“Recreation Area Irrigation Use”** is the use of water to irrigate recreational areas such as soccer, baseball, and football fields or playgrounds.
- (42) **“Repair”** means any action which involves the physical alteration or replacement of any part of a well, but does not include the alteration or replacement of any portion of a well which is above ground surface.

- (43) **“Sanitation Use”** includes supplying water for toilet facilities, and for cleaning, when the use is in a non-residence. This use does not include drinking water or water used in cooking.
- (44) **“Soil Flooding Use”** means the use of water for raising of water levels on agricultural lands for purposes not directly related to such purposes as crop growth, soil preservation, crop harvesting, and pest control.
- (45) **“Test Well”** or **“Test Hole”** is a well constructed for temporary use, designed to allow specific geological or groundwater parameters to be examined prior to the construction of a permanent well.
- (46) **“Water-Based Recreation Use”** is the use of water for public or private swimming and wading pools and other water-oriented recreation such as fishing, boating, and swimming, and including water slides.
- (47) **“Well”** means any excavation that is drilled, cored, bored, washed, driven, dug, jetted, or otherwise constructed when the intended use of such excavation is for the location, acquisition, development, or artificial recharge of ground water, but such term does not include any well for the purpose of obtaining or for prospecting for oil, natural gas, minerals, or products of mining or quarrying, for inserting media to dispose of oil brines or to repressure oil or natural gas-bearing formations, or for storing petroleum, natural gas, or other products; or for temporary dewatering of subsurface formations for mining, quarrying, or construction purposes.

- (48) **“Well Completion”** means a well that meets all construction standards specified in Part II.
- (49) **“Well Seal”** means an arrangement or device that prevents contaminants from entering the well at the upper terminal and that is approved by the District as satisfying the requirements of Section 40A-3.521 of this rule.
- (50) **“Onsite Sewage Disposal System (OSDS)”** means a sewage treatment and disposal facility, which may contain a standard subsurface, filled, or mound drainfield system, an aerobic treatment unit, a graywater system tank, a laundry wastewater system tank, a septic tank, a grease interceptor, a dosing tank, a solids or an effluent pump, alternative system or experimental system.
- (51) **“Sanitary Hazard”** means a physical condition which involves or affects any part of a drinking water system or the raw water source, and that creates an imminent or potentially serious risk to the health of any person who consumes water from that system.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS.  
 Law Implemented: 373.303, 373.306, 373.308, 373.309, 373.313, 373.316, 373.319, 373.323(2), FS.  
 History—New 4-14-80; Amended 2-1-82, 3-29-84, 10-1-84, 1-9-86, 4-5-88, 8-1-89, 12-1-90, 11-1-92, 11-1-93, 11-1-95, Amended 7-1-98; Formerly 16G-3.02.

#### **40A-3.031 IMPLEMENTATION.**

Specific Authority: 373.044, 373.113, FS.  
 Law Implemented: 373.103(1), 373.306, 373.308, 373.309, 373.313, 373.314, 373.316, 373.319, 373.323(2), 373.326, 373.329, 373.333, 373.342, FS.  
 History—New 4-14-80; Amended 2-1-82; 10-7-82; 1-9-86; Formerly 16G-3.03; Repealed 7-1-98.

**40A-3.032 DELEGATION.**

Specific Authority: 373.044, 373.113, 373.171, FS.  
Law Implemented: 373.308, 373.309(2), 373.342, FS.  
History—New 1-9-86, Repealed 7-1-98.

**40A-3.037 WATER WELL CONTRACTOR LICENSING.**

- (1) Chapter 62-531, Florida Administrative Code, which requires the licensing of water well contractors, is hereby adopted by reference and made part of this rule. The licensing program shall be administered and enforced by the District under the authority delegated to it by the Department of Environmental Protection by Order dated July 11, 1984.
- (2) Unlicensed persons violating the provisions of Chapter 373, Florida Statutes, or these rules, or orders of the District are subject to the disciplinary procedures prescribed in Section 373.323, Florida Statutes.

Specific Authority: 373.044, 373.113, 373.323, 373.337, FS.  
Law Implemented: 373.323, FS.  
History—New 10-1-84; Amended 8-1-89.

**40A-3.038 VIOLATIONS OF LICENSING REQUIREMENTS.**

- (1) Actions, omissions, or conduct by any contractor licensed by this District which may be considered as violations for the purposes of Chapter 62-531, Florida Administrative Code, shall include the following:
  - (a) Practicing with a revoked, suspended, or inactive license.
  - (b) Attempting to obtain, obtaining, or renewing a license under this part by bribery or fraudulent misrepresentation.

- (c) Being convicted or found guilty, regardless of adjudication, of fraud or deceit or of gross negligence, incompetency, or misconduct in the performance of work, or of a crime in any jurisdiction which directly relates to the practice of water well contracting or the ability to practice water well contracting.
- (d) Failure to display the contractor license number in a conspicuous place on both sides of each piece of drilling equipment owned, leased, or operated by the contractor.
- (e) Failure to notify the District in writing within 15 days of any change in official address.
- (f) Having had administrative or disciplinary action relating to water well construction, repair, or abandonment taken by any municipality or county or any state agency. These actions shall be reviewed by the District before it takes any disciplinary action of its own.
- (g) Constructing, repairing, or abandoning a water well without first obtaining all applicable permits.
- (h) Allowing any other person to use the license.
- (i) Violating or refusing to comply with any provision of Chapter 373, Florida Statutes, or rule adopted by the District, or any order of the District previously entered in a disciplinary hearing.
- (j) A licensed water well contractor shall not allow an unlicensed

individual to construct, repair or abandon wells under the licensed well contractor's license unless: (a) the unlicensed individual is employed and supervised by the licensed contractor or (b) the licensed well contractor has a contractual agreement with the unlicensed subcontractor in which the licensed contractor obtains all well permits, supervises all well work and accepts full responsibility for the subcontractors well drilling activity.

- (2) Actions which may be taken by the District upon determination that a violation has occurred are outlined in Chapter 62-531, Florida Administrative Code, adopted by reference and made a part of this rule.

Specific Authority: 373.044, 373.113, 373.171, 373.323, 373.337, FS. Law Implemented: 373.323, 373.333, 373.336, FS. History—New 1-9-86; Amended 8-1-89, 12-1-90, 11-1-92.

## **PART I - PERMITTING OF WELLS**

### **40A-3.040 SCOPE OF PART I.**

Specific Authority: 373.044, 373.113, 373.171, FS. Law Implemented: 373.303, 373.308, 373.309, 373.316, 373.326, 373.342, FS. History—New 1-9-86, Repealed 7-1-98.

### **40A-3.041 PERMITS REQUIRED.**

- (1) Unless expressly exempted by Statute or District rule, a permit must be obtained from the District prior to construction, repair, or abandonment of a well and the well must be constructed, repaired, or abandoned by a licensed water well contractor. Any potable water well proposed within an area of ground water contamination, as

delineated by the Department, will be permitted pursuant to Chapter 62-524, Florida Administrative Code.

- (2) A permit to construct, repair, modify or abandon any water well meeting the provisions of Chapter 373, Part III, Florida Statutes, and Chapter 40A-3, Florida Administrative Code, will be issued by the Executive Director. However, if a permit request is considered for denial or a written objection is filed to the issuance of a permit, or the application is for the construction of an artificial recharge facility, then the application shall be processed in accordance with the applicable provisions of 40A-1.203, Florida Administrative Code, and acted upon by the District's Governing Board.
- (3) Permit applications shall be filed with the District on NFWFMD Form No. 10, revised 11/1/95, hereby incorporated by reference. The required fee shall be submitted with the permit application. Applications to construct an artificial recharge facility shall be accompanied by a completed copy of the appropriate artificial recharge application required pursuant to 62-528, Florida Administrative Code.
- (4) Permits for water use must be obtained under the provisions of Chapter 40A-2, Florida Administrative Code. A well shall not be constructed until an Individual water use permit is granted, if a water use permit is required.
- (5) Additional information may be required such as: geophysical logs, geologic samples and logs, a list of proposed construction methods, a description of proposed pump tests, a list of well

specifications, a description of the proposed water quality monitoring systems, and a description of the proposed total monitoring system.

- (6) Receipt of the permit will constitute permission to begin well construction, repair, or abandonment.
- (7) The District permit for a public water supply well does not constitute approval of the public water system. A separate application must be submitted to the Department in accordance with Subsection 62-555.102(2), Florida Administrative Code, to obtain a permit to construct or alter a public water supply system.
- (8) The permit shall be available at the site of the well during construction, repair, or abandonment.
- (9) Any permittee who desires to change the location of a well or otherwise amend a permit shall apply to the District for an amendment. No charge shall be made to amend the permit. As a condition to approving any amendment, the District may require remedial action to bring any work accomplished under the original permit into compliance with provisions of this Chapter.
- (10) A repair permit is not necessary if remedial work is performed on a well before the expiration date of the construction permit; however, an updated completion report should be filed with the District if the well depth or casing depth is increased.
- (11) Permits will not be granted after a water well has been constructed, repaired, or abandoned, except in the case of

subsection (12) below. As a condition to the enforcement action taken, a contractor will be required to submit a permit application and completion report for the District's records.

- (12) A permit to abandon is required for any well which was constructed and found unsuitable for use. If the contractor is in the drilling process and needs to abandon, he may perform the work prior to obtaining a permit; however, the permit must be obtained by telephone or in person no later than 24 hours following the well abandonment. The hole must be properly abandoned (plugged) according to the standards of Subsection 40A-3.531(4), Florida Administrative Code.
- (13) If a well unsuitable for use is abandoned (plugged), and the contractor plans to construct a new well, he may use the construction permit granted for the first well, provided that it has not expired.
- (14) Receipt of a permit from the District does not alleviate the responsibility of the applicant to obtain other permits that may be necessary from local, state, or federal agencies. If more stringent rules concerning construction standards for water wells are promulgated by local permitting authorities, those standards shall apply.
- (15) A permit to abandon a test well or test hole is required to be obtained by the property owner, through a licensed water well contractor, within six (6) months from the date of well construction permit issuance. However, if the test well or test hole was constructed to permanent well standards and meets all applicable setback

requirements, the well may be converted to permanent well status by obtaining an additional construction permit for the new permanent well type. A new permit application fee must also be submitted in accordance with the proposed permanent well type.

Specific Authority: 373.044, 373.113, 373.171, 373.337, FS.  
Law Implemented: 373.106, 373.109, 373.306, 373.308, 373.309, 373.313, 373.314, 373.316, 373.342, FS.  
History–New 4-14-80: Amended 4-13-81, 2-1-82, 10-7-82, 3-29-84, 1-9-86, 8-1-89, 12-1-90, 2-14-91, 11-1-95, 7-1-98; Formerly 16G-3.04, 16G-3.11.

#### **40A-3.051 EXEMPTIONS.**

- (1) A permit is not required prior to the construction, repair, or abandonment of any well exempted by Subsection 373.303(7) and Section 373.326, Florida Statutes (any well for the purpose of obtaining or prospecting for oil, natural gas, minerals, or products of mining or quarrying; wells for inserting media to dispose of oil brines, or to repressure oil or natural gas-bearing formations; wells for storing petroleum or natural gas or other products; or wells used for temporary dewatering for construction purposes).
- (2) When the District finds that compliance with all requirements of this Chapter would result in undue hardship, supported by information which demonstrates that the intent and purpose of the rule will not be impaired, an exemption from any one or more such requirements shall be granted by the District to the extent necessary to ameliorate such undue hardship. Such

information may include water quality sampling or other reasonable information or action deemed necessary to assure the well will not adversely impact the water resource. The request for an exemption must be submitted in writing and detail the reasons why compliance with the requirements of this Chapter will create a hardship.

- (3) A water well contractor license is not required for a homeowner when he plans to construct a well two (2) inches or less inside diameter on his own or leased property, intended for use only at a single family house which is his residence or intended for use only for farming purposes on his farm, and when the waters to be produced are not intended for use by the public or any residence other than his own. However, the well construction must meet all applicable standards of Part II of these rules, and the requirements for a Consumptive Use Permit.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.303, 373.306, 373.308, 373.309, 373.313, 373.316, 373.326, FS. History–New 4-14-80: Amended 2-1-82, 5-17-83, 3-29-84, 1-9-86, 8-1-89, 12-1-90, 11-1-92, 7-1-98; Formerly 16G-3.05, 16G-3.12.

#### **40A-3.201 PERMIT APPLICATION FEES.**

- (1) There shall be an application fee according to the following schedule, unless the well is a potable well within a delineated area as established by the Department, pursuant to Chapter 62-524, Florida Administrative Code:

**OUTSIDE DIAMETER OF CASING**

	OUTSIDE DIAMETER OF CASING	FEE *
Public Supply Wells, Construction and Repair	All Diameters	\$250.00
Limited Use Public Supply Wells, Construction and Repair	All Diameters	\$200.00
All Other Wells, Construction and Repair, Not Listed Above	6 Inches and larger Diameter	\$100.00
All Other Wells, Construction and Repair, Not Listed Above	4 Inch Diameter, but less than 6 Inch Diameter	\$50.00
All Other Wells, Construction and Repair, Not Listed Above	Less than 4 Inch Diameter	\$35.00
Monitor Wells	All Diameters	\$30.00
Well Abandonment	All Diameters	\$10.00
Emergency Telephone Authorization – Added to Regular Permit Fee	All Diameters	\$25.00
Exemption (Variance) - Added to Regular Permit Fee	6 Inches and Larger	\$150.00
	Less Than 6 Inches	\$50.00

- (2) There shall be an application fee according to the following schedule, for those potable wells constructed within an area of groundwater contamination, as delineated by the Department pursuant to Chapter 62-524, Florida Administrative Code:

**OUTSIDE DIAMETER OF CASING**

	OUTSIDE DIAMETER OF CASING	FEE *
Public and Limited Use Public Supply Wells	All Diameters	\$500.00
Potable Wells Serving Single Family Residences	All Diameters	\$100.00
Exemption (variance) - Added to Regular Permit Fee	6 Inches and Larger	\$150.00
	Less Than 6 Inches	\$50.00

\* All permit application fees shall be non-refundable.

Note: The Emergency Telephone Authorization Fee and Exemption Fee are in addition to the standard permit fees listed above, and shall accompany applications for permits.

Specific Authority: 373.044, 373.109, 373.113, 373.171, 373.337, FS.

Law Implemented: 373.109, 373.309, FS.

History—New 4-14-80; Amended 6-11-80, 4-13-81, 2-1-82, 5-17-83, 1-9-86, 8-1-89, 1-1-90, 12-1-90, 2-14-91 11-1-93; Formerly 16G-3.20, 16G-3.13.

**40A-3.301 CONDITIONS FOR ISSUANCE OF PERMITS.**

(1) The District shall complete action upon any permit application within fourteen (14) days after receipt of a complete application, except in the case of water wells constructed for public water supply systems as defined in Section 62-555.200, and wells constructed for the artificial recharge of water, wells requiring an Individual Water Use Permit under provisions of Chapter 40A-2, Florida Administrative Code, in which case permit action shall be completed within 90 days of receipt of a complete application for the construction of an artificial recharge well or Chapter 40A-2 Florida Administrative Code application.

(2) The issuance of a permit is dependent upon:

- (a) The application being accompanied by the required fee, and containing the information required on NFWFMD Form No. 10. An application will be deemed incomplete if any portion of the application form is left blank or if the required sketch is illegible, does not provide the means to locate the proposed well, or is not consistent with the land coordinates provided in the application.
- (b) The proposed construction, repair, or abandonment being in accordance with applicable law, rules, and orders.
- (c) The work being done for a purpose and in a manner which is consistent with generally accepted engineering,

hydrologic, and hydrogeologic practices.

- (d) Whether the construction of the well will adversely affect the ground water resources.
  - (e) Whether the proposed well's proximity to an area of ground water contamination delineated under the provisions of Chapter 62-524, Florida Administrative Code, may adversely affect the ground water resources or present a threat to the health, safety, and welfare of individuals who, through ingestion, inhalation, or dermal absorption may be exposed to ground water contamination.
  - (f) Whether the Governing Board has approved the issuance of an Individual Water Use permit or the construction of an artificial recharge well, if applicable.
- (3) A permit may be granted with certain conditions or restrictions, such as:
- (a) Geologic samples required;
  - (b) Geophysical logs required;
  - (c) Pumping test required;
  - (d) Borehole diameter restricted;
  - (e) Total depth restricted;
  - (f) Length of casing specified;
  - (g) Capacity of pump restricted;
  - (h) Water use permit required;
  - (i) Grouting inspection required;

- (j) Grout specified;
  - (k) Water quality sampling required;
  - (l) Water Treatment Systems (including filters);
  - (m) In areas delineated under the provisions of Chapter 62-524, Florida Administrative Code, a water well construction permit shall not be issued unless the well is constructed to criteria intended to protect the water resources from further contamination and the health, safety, and welfare of individuals who, through ingestion, inhalation, or dermal absorption may be exposed to ground water contamination. This criteria shall include stipulations on any of the following items: casing depth, construction method, well depth, water quality sampling, grout specifications, the installation of a water treatment system such as a filter and setback distance from a specific known source of contamination;
  - (n) Other such reasonable conditions as are necessary to assure that the well will comply with the requirements of Chapter 373, Florida Statutes, and will not adversely impact the water resources of the District.
- (4) If the permit is obtained by the owner, the permit will be granted with the condition that the permit document be signed by the licensed water well contractor who will perform the work and return the permit to the District prior to construction, repair, or abandonment.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS.

Law Implemented: 373.109, 373.306, 373.308, 373.309, 373.313, 373.323, FS.

History–New 4-14-80; Amended 2-1-82, 10-7-82, 5-17-83, 3-29-84, 1-9-86, 8-1-89, 2-14-91, 11-1-92, 11-1-95, 7-1-98; Formerly 16G-3.30, 16G-3.14.

#### **40A-3.321 DURATION OF PERMITS.**

All permits shall be valid for a period of ninety (90) days. If construction, repair, or abandonment is not completed within that time, the District shall extend the permit for a period not to exceed ninety (90) days provided the conditions of the original permit application have not changed. Public water supply well permits may be renewed for a period of up to one (1) year from the date of permit issuance (in increments of ninety days per renewal request only). The District must receive a written request for an extension from the permittee or permittee's agent before the original permit expires.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.308, 373.309, FS. History–New 1-9-86; Amended 8-10-87, 8-1-89, 12-1-90, 11-1-95; Formerly 40A-3.041.

#### **40A-3.341 DISAPPROVAL OF WELLS.**

- (1) The District may disapprove any water well or abandoned well if the District finds, after inspection, that the well does not comply with the provisions of this Chapter.
- (2) The District may disapprove any well if the well is determined not to be suitable for the intended use identified in the application submitted to the District or if the well represents a threat to the water resources, or if the well is determined by the Department of Environmental Protection or the Department of Health and Rehabilitative Services to pose a threat to the health, safety, or welfare of the user.
- (3) No well which has been disapproved may be used until it has been brought into compliance with this Chapter. A

well that cannot be brought into compliance with the District's rules shall be abandoned as required by Subsection 40A-3.531(4), Florida Administrative Code.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS.

Law Implemented: 373.306, 373.308, 373.309, 373.319, FS.

History–New 4-14-80; Amended 4-13-81, 2-1-82, 10-1-84, 8-1-89, 7-1-98; Formerly 16-3.34, 16G-3.18.

#### **40A-3.342 PERMIT DENIAL.**

- (1) The District shall issue a notice of Intent to Deny whenever it determines that an application for a permit under 40A-3.041 fails to meet the requirements of Chapter 373, Florida Statutes, or 40A-3, Florida Administrative Code, or any rule, order, or standard adopted pursuant thereto.
- (2) The Notice of Intent to Deny shall:
  - (a) State the grounds for denial;
  - (b) Give the date of the Governing Board meeting at which the recommendation for denial shall be presented according to the procedures set forth in Subsection 40A-3.342(3); and
  - (c) Be served in writing upon the contractor and owner at their last known addresses by registered or certified mail.
- (3) The Governing Board shall be presented with a recommendation for denial of a permit application at the first regularly scheduled Board meeting following the determination that an application for a permit under 40A-3.041 fails to meet the requirements of Chapter 373, Florida Statutes, or 40A-3, Florida Administrative Code, or any rule, order, or standard adopted pursuant thereto. At

that time pertinent facts concerning the basis for denial shall be presented, and the contractor and owner will have an opportunity to present pertinent information. The Governing Board shall then decide to:

- (a) Grant a permit to construct, repair, or abandon a water well as specified in the application;
  - (b) Grant a permit as in (a) above except that certain conditions or restrictions authorized by law are imposed; or,
  - (c) Deny a permit, stating the reason for such denial.
- (4) The District shall notify the contractor and owner of final Board action described in 40A-3.342(3) within fourteen (14) days after the action. The Notice of Denial shall:
- (a) State the grounds for denial; and
  - (b) Be served in writing upon the contractor and owner at their last known addresses by registered or certified mail.
- (5) Any person receiving a denial may request a hearing by filing a written petition with the District within 21 days of the mailing of the notice.

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.306, 373.313, FS.  
History—New 4-14-80; Amended 2-1-82, 1-9-86, 4-5-88, 11-1-92, 7-1-98; Formerly 16G-3.17, 16G-3.31.

#### **40A-3.411 COMPLETION REPORTS.**

- (1) Within thirty (30) days after the expiration of a permit, a well completion report shall be filed with the District on the forms provided by the District and in accordance with the instructions provided thereon.
- (2) If no work is performed or if the well is not completed, a report shall be filed within thirty (30) days of the expiration of the permit stating that no well construction was performed under the permit or outlining the status of the incomplete well.
- (3) NFWFMD Form 114 shall be used to report the completion of construction, repair, or abandonment of any well within District jurisdiction.
- (4) The water well contractor shall provide the well owner a copy of the well completion report.
- (5) The information filed as a part of the completion report shall be truthful and accurate in providing the specifications and characteristics of the constructed well.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS.  
Law Implemented: 373.308, 373.309, 373.313, FS.  
History—New 4-14-80; Amended 5-17-83, 1-9-86, 8-1-89, 11-1-95; Formerly 16G-3.41, 16G-3.15.

#### **40A-3.451 EMERGENCY AUTHORIZATION.**

- (1) Permission to begin construction, repair, or abandonment of any well may be applied for by telephone when conditions exist which would justify such a request. The District may grant such permits at its discretion. However, a serious set of unforeseen circumstances must exist to create an emergency. Mere carelessness,

lack of planning on the part of the applicant (the owner or the contractor for the owner) or a desire to expedite the required work shall not be sufficient grounds to warrant the granting of an emergency authorization.

- (2) Emergency permits shall be obtained from the District Headquarters only.
- (3) Emergency permit applications shall be accompanied by a \$25.00 fee in addition to the standard fee.
- (4) The recipient of an emergency authorization shall submit an application in writing in accordance with the provision of 40A-3.041, Permits Required. Permit applications shall be postmarked within 24 hours of the time the emergency authorization was granted by the District; the application shall also be accompanied by a handwritten note stating the nature of the emergency. All other provisions of these rules shall remain in force.
- (5) Failure to fulfill the guidelines for obtaining emergency permits may result in the issuance of a Notice of Violation under the provisions of Rules 40A-3.041, 40A-3.301, and 40A-3.451, Florida Administrative Code.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.109, 373.308, 373.309, 373.313, 373.326, 373.333, 373.342, FS. History—New 4-14-80; Amended 1-9-86; Formerly 16G-3.45, 16G-3.16.

#### **40A-3.461 INSPECTIONS.**

- (1) The District is authorized to inspect any water well or abandoned water well within its area of responsibility. The District may cause to be made such inspections as it deems necessary to insure conformity with applicable standards of this rule chapter. Duly authorized representatives of the District

may, at reasonable times, enter upon and shall be given access to any premises for the purpose of such inspection.

- (2) If, upon the basis of such inspections, the District finds the standards of this rule chapter have not been met, the District shall give the owner and contractor written notice stating which rules have been violated and shall order that necessary corrective action be taken within a reasonable time to be prescribed in such order. Failure to act in accordance with the order of the District after receipt of written notice shall be grounds for disapproval of the well.
- (3) A site inspection must be completed by an authorized representative of the District or the Department prior to issuing a permit for construction of a public water supply well.
- (4) The District shall be notified at least 24 hours in advance of placement of grout in the annular space of any public supply water well; failure to notify the District sufficiently in advance may result in delay of completion of the well. A District representative will be on site to observe the grouting. If the District is properly notified and an inspector is not at the site at the appointed time, the grouting may be accomplished in his absence.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.119, 373.308, 373.309, 373.319, 373.333, FS. History—New 4-14-80; Amended 2-1-82, 1-9-86, 7-1-98, 3-1-00; Formerly 16G-3.22.

#### **40A-3.492 VIOLATIONS OF PERMITS.**

- (1) Actions, omissions, or conduct which shall be considered as violations for the purposes of Part I, Permitting, shall include the following:

- (a) Failure to obtain a permit where required under Section 40A-3.041.
  - (b) Failure to provide accurate information in the application for a permit.
  - (c) Failure to fulfill the guidelines for obtaining an emergency permit.
  - (d) Failure to comply with any or all permit conditions.
  - (e) Failure to submit a completion report within the time period specified in Section 40A-3.411.
  - (f) Failure to file an accurate completion report.
  - (g) Failure to report to the District within thirty (30) days of expiration of the permit when no work is performed or the well is not completed.
  - (h) Failure to notify the District 24 hours prior to the grouting of the annular space of any public supply well.
  - (i) Failure to fulfill any other applicable requirements of Chapter 373, Part III, Florida Statutes, or Chapter 40A-3, Florida Administrative Code.
- (2) Actions which may be taken by District staff upon determination that a violation has occurred are outlined in Section 40A-3.980, of these rules.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.306, 373.308, 373.309, 373.319, FS. History—New 1-9-86; Amended 11-1-92, 11-1-95; Formerly 40A-3.953, FAC.

## **PART II - CONSTRUCTION, REPAIR, AND ABANDONMENT STANDARDS**

### **40A-3.500 SCOPE OF PART II.**

Specific Authority: 373.044, 373.113, 373.171, FS.  
Law Implemented: 373.308, 373.309, 373.313, FS.  
History—New 1-9-86, Repealed 7-1-98.

### **40A-3.502 CONSTRUCTION METHODS.**

- (1) Wells must be so constructed, cased, grouted, plugged, capped, or sealed as to prevent uncontrolled surface flow, uncontrolled movement of water from one aquifer or zone to another, contamination of ground water or surface water resources, or other adverse impacts. The foregoing shall apply to all construction, repair or abandonment of wells in the District except for public water supply wells, which shall be constructed, repaired, or abandoned in accordance with Chapter 62-555, Florida Administrative Code.
- (2) The well construction regulations promulgated by the Department governing the construction of potable wells in delineated areas, as set forth in Chapter 62-524, Florida Administrative Code, are hereby adopted by reference and made a part of this rule, and shall apply to all potable wells constructed, altered, repaired, or abandoned in those delineated areas of the District.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.306, 373.308, 373.309, FS. History—New 1-9-86; Amended 12-1-90, 2-19-91, 11-1-95.

### **40A-3.504 LOCATION.**

- (1) Wells shall be located so as to not pose a threat of contamination to the District's water resources and to provide for the

protection of the health, safety, and welfare of the user.

(2) Minimum spacing between wells and sanitary hazards such as septic tanks, drainfields, ground water contamination areas, cesspools, etc. shall be as specified by Section 381.0065 and Chapter 373, Part III, Florida Statutes, and the respective rules of the Department of Health and Rehabilitative Services and the Florida Department of Environmental Protection.

(3) The following minimum distances shall apply, unless an exemption has been obtained. The following list is not inclusive or exhaustive, and further reference to Chapters 64E-6, 64E-8, 62-524, 62-550, 62-555 and 62-610, Florida Administrative Code, should be made.

(a) Landscape and recreational area irrigation wells shall be located a minimum of seventy-five (75) feet from a sanitary hazard.

(b) Landscape and recreational area irrigation wells shall be located outside ground water contamination areas delineated by the Department of Environmental Protection in Section 62-524.430, Florida Administrative Code.

(c) Domestic Self Supply water wells shall be located a minimum distance of twenty-five (25) feet from building foundations treated with pesticides.

(d) Domestic Self Supply water wells shall be located a minimum distance of seventy-five (75) feet from a sanitary hazard, such as an onsite sewage disposal system (OSDS).

(e) Domestic Self Supply water wells shall be located a minimum distance of one hundred and seventy-five (175) feet from storage and treatment facilities of livestock farms.

(f) Domestic Self Supply water wells within ground water contamination areas delineated by the Department of Environmental Protection shall be located as specified in Section 62-524.500, Florida Administrative Code. The delineated areas are found in Section 62-524.430, Florida Administrative Code.

(g) Limited Use Public Supply wells, constructed under the provisions of Chapter 64E-8, Florida Administrative Code, shall be located a minimum distance of one hundred (100) feet from a sanitary hazard, such as an onsite sewage disposal system (OSDS), if the sewage flow is less than 2,000 gallons per day or 200 feet from an OSDS with sewage flows of 2,000 gallons per day or more.

(h) Limited Use Public Supply Wells, constructed under the provisions of Chapter 64E-8, Florida Administrative Code, within ground water contamination areas delineated by the Department of Environmental Protection shall be located as specified in Section 62-524.500, Florida Administrative Code. The delineated areas are found in Section 62-524.430, Florida Administrative Code.

(i) Public water supply wells constructed under provisions of Chapter 62-555, Florida Administrative Code, DEP Public Supply Wells, must be located

a minimum distance of two hundred (200) feet from a sanitary hazard, such as an onsite sewage disposal system (OSDS).

- (j) Public water supply wells shall be located a minimum distance of one hundred (100) feet from other sanitary hazards as identified in Department of Environmental Protection Section 62-550.200, Florida Administrative Code.
  - (k) Public water supply wells shall be located a minimum distance of three hundred (300) feet from storage and treatment facilities of livestock farms.
  - (l) Public water supply wells shall be located a minimum distance of five hundred (500) feet from areas used for land application of reclaimed water.
  - (m) Public water supply wells within ground water contamination areas delineated by the Department of Environmental Protection shall be located as specified in Section 62-524.500, Florida Administrative Code. The delineated areas are found in Section 62-524.430, Florida Administrative Code.
- (4) The District shall increase these distances if necessary to protect the health, safety, and welfare of individuals who may be exposed to ground water contamination through ingestion, inhalation, or dermal absorption.
- (5) Exemptions to the above specified distances may be obtained from the District as provided by Section 40A-3.051, Florida Administrative Code. The exemption request will be evaluated on

such criteria as gradient, well location, natural barriers, impermeable geological strata, water quality sampling, grouting, and the use of water treatment systems acceptable to the Department of Environmental Protection or the local health unit.

- (6) In subdivisions platted after January 1, 1972, domestic self-supplied potable wells may be located on lots with onsite sewage disposal systems (OSDS), provided that each lot has a minimum area of at least one-half acre and either a minimum dimension of one hundred (100) feet or mean of at least one hundred (100) feet of the side bordering the street and the distance formed by a line parallel to the side bordering the street drawn between the two most distant points of the remainder of the lot, and providing the projected daily domestic sewage flow does not exceed an average of 1,500 gallons per acre per day.

Specific Authority: 373.026, 373.044, 373.103, 373.113, 373.171, 373.308, 373.309, 373.326, 373.337, FS.  
Law Implemented: 373.306, 373.308, 373.309, 373.326, FS.  
History—New 1-9-86; Amended 4-5-88, 8-1-89, 12-1-90, 2-19-91, 11-1-92, 11-1-93, 11-1-95.

#### **40A-3.507 CASING AND LINER PIPE STANDARDS.**

- (1) Well casing and liner pipe shall be new or shall be pipe or casing in like-new condition. Such casing or pipe shall not be used unless free from leaks, breaks, corrosion, and dents; is straight and true; and is not out of round. Welded or seamless black or galvanized steel pipe or casing, or stainless steel pipe or casing, or approved types of nonmetallic pipe shall be used for well or liner pipe. All well casing shall meet and be clearly stamped with one of the following standards: (ASTM) A120-84, (ASTM)

A53-89A, (ASTM) A589-89A, (ASTM) A-252-89, A135-89A; or (API) 5L-6/91. Well casing that conforms to any of the aforementioned ASTM or API standards must also conform to (ANSI/ASME) B-36.10M-85. All well casing shall be stenciled with the applicable standard no later than January 1, 1994. All well casing or liner pipe proposed for potable use placed into service on or after January 1, 1994, shall conform to NSF Standard 61-1991, National Sanitation Foundation, Post Office Box 1468, Ann Arbor, Michigan, 48106, as certified by an entity approved by the American National Standards Institute (ANSI).

- (2) For well casing or liner pipe installed by driving, the casing or pipe shall not butt together inside threaded couplings unless the joint is electrically welded so as to be completely watertight. A drive shoe is required for use on pipe installed by driving unless exempted by the District.
- (3) Well casing installed by driving shall not have less than the dimensions and weights specified in Table 1, unless it can be shown the casing will maintain its integrity so as to prevent degradation of the water resource. The Department of Environmental Protection, under the provisions of Subsection 62-532.500(f), Florida Administrative Code, requires all alternative well casing, not listed in Table 1 to receive Department approval prior to use. Prior approval for the use of alternative materials shall also be obtained from the District.

**TABLE 1  
MINIMUM NOMINAL DIMENSIONS  
AND WEIGHTS FOR  
BLACK OR GALVANIZED STEEL  
CASING OR LINER PIPE  
INSTALLED BY DRIVING**

Nominal Size (in.)	Outside Diameter (in.)	Wall Thickness (in.)	Plain End Weight (lb.ft.)
1.25	1.660	0.140	2.27
1.5	1.900	0.145	2.72
2	2.375	0.154	3.65
3	3.500	0.216	7.58
3.5	4.000	0.226	9.11
4	4.500	0.237	10.79
5	5.563	0.258	14.62
6	6.625	0.280	18.97
8	8.625	0.277	24.70
10	10.750	0.307	34.24
12	12.750	0.330	43.77
14 - 30		0.375	(standard wall Schedule 40)
Greater than 30		0.500	(standard wall Schedule 40)

Note: A 4 inch nominal size casing with a wall thickness of 0.188 and a plain end weight of 8.66 may be used if it conforms to standard API 5L-6/91, Grade B, 60 KSI tensile strength. For example A53-89a, Grade B, may also be substituted.

- (4) Black or galvanized steel casing or liner pipe set into place without driving shall not have less than the dimensions and weights specified in Table 2.

**TABLE 2  
MINIMUM NOMINAL DIMENSIONS  
AND WEIGHTS FOR  
BLACK OR GALVANIZED STEEL  
CASING OR LINER PIPE  
SET INTO PLACE WITHOUT  
DRIVING**

Nominal Size (in.)	Outside Diameter (in.)	Wall Thickness (in.)	Plain End Weight (lb.ft.)
1.25	1.660	0.140	2.27
1.5	1.900	0.145	2.72
2	2.375	0.154	3.65
2.5	2.875	0.203	5.79
3	3.500	0.188	6.65
3.5	4.000	0.188	7.65
4	4.500	0.188	8.66
5	5.500	0.188	10.79
6	6.625	0.188	12.92
8	8.625	0.188	16.94
10 – 16		0.250	
Greater than 16		0.375	

(5) Polyvinyl Chloride (PVC) pipe may be used for well casing or liner pipe. Any PVC pipe used to construct a water well shall have been marked by the manufacturer, under a method specified by the National Sanitation Foundation, Post Office Box 1468, Ann Arbor, Michigan, 48106, in ANSI-NSF Standard 14-1990, as suitable for use in potable water systems. Any PVC pipe used for well construction or repair shall, at a minimum, meet specifications for

Standard Dimension Ratio (SDR 21) and have a working pressure rating of not less than 200 p.s.i. at 73 degrees F or shall be ASA Schedule 40. Other nonmetallic pipe shall not be used unless it can be shown the pipe will maintain its integrity so as to prevent degradation of the water resource. The Department of Environmental Protection, under the provisions of Paragraph 62-532.500(1)(f), Florida Administrative Code, requires all other nonmetallic well casing to receive Department approval prior to use. Prior approval for the use of alternative materials shall also be obtained from the District.

(6) Steel well casing and liner pipe shall be joined in a watertight manner by threaded couplings, electrical welding methods or other methods approved by the District. PVC pipe shall be joined by heat welding, solvent bonding, threaded couplings or other methods approved by the District, which shall meet the strength requirements of the casing as specified in (5) above.

(7) Nonmetallic and stainless steel well casing or liner pipe shall not be installed or seated by driving unless it can be shown the casing or pipe will maintain its integrity so as to prevent degradation of the water resource. The Department of Environmental Protection, under the provisions of Paragraph 62-532.500(1)(f), Florida Administrative Code, requires all alternative well casing, not listed in Table 1 to receive Department approval prior to use. Prior approval for the use of alternative materials shall also be obtained from the District.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.308, 373.309, FS.

**40A-3.512 STANDARD WELL  
CONSTRUCTION METHODS.**

- (1) In the construction of a well, reasonable caution shall be taken to maintain the premises in sanitary condition and to minimize the entrance of contaminants into the water resource. Water and materials used in construction shall be reasonably free of contamination.
- (2) For wells which penetrate multiple aquifers or zones, the well shall be completed so as to prevent cross-connections of different aquifers or zones and to prevent leakage of water from one aquifer or zone to another aquifer or zone. If a well cannot be properly completed to prevent such an interchange of water between water-bearing zones or to prevent a loss of artesian pressure, the well shall be abandoned and plugged in accordance with 40A-3.531 of these rules or other specifications provided by the District, as may be appropriate for the geological conditions encountered.
- (3) For wells completed into unconsolidated aquifers, casing shall extend from land surface to the well screen. The well screen shall be attached to the casing with a watertight seal.
- (4) For wells obtaining water from consolidated aquifers, a continuous casing shall extend from the land surface into the producing aquifer, and such casing must extend below the static water level of the aquifer intended to supply the water to the well unless it can be shown an alternative placement of the casing will prevent degradation of the water resource. All caving zones shall

be cased or screened. Prior approval for the use of alternative methods shall be obtained from the District.

- (5) Wells constructed to provide water for irrigation systems are required to have installed an anti-syphon device adequate to protect against contamination of the water supply, pursuant to the requirements of Section 487.064, Florida Statutes.
- (6) All water wells intended to provide potable water shall be thoroughly cleaned of all foreign substances and obstructing material after the well has been constructed. The well shall be developed by pumping, surging, bailing, or other means which effectively remove sediment, well cuttings, and foreign material from in and around the well. Such wells shall be properly disinfected after construction in accordance with Section 11, Well Disinfection, American Water Works Association Standard for Water Wells, AWWA A100-84, dated June 10, 1984, which is hereby incorporated by reference.
- (7) It is the intent that all wells shall be constructed to prevent caving and pumping of sand. In areas where the potential exists for sand to enter the well, a screen shall be used. If a screen is not used and the completed well pumps sand, the well will be determined not to be suitable for its intended use and the well will have to be repaired or abandoned.
- (8) The well casing shall extend a minimum of twelve (12) inches above ground level and shall not be cut off below ground level unless prior approval is obtained from the District. Circumstances for which such approval shall be considered

include the practice of installing the well top, pump and pump control apparatus in a water tight below grade box specifically designed and installed for such purpose for a well whose location is not subject to flooding or inundation. Persons wishing to apply for approval shall submit their request to the District on NFWMD Form No. 122, Request For Below Grade Well Casing Approval. The request will be reviewed in the same manner as exemption requests specified in Section 40A-3.051, Florida Administrative Code.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.306, 373.308, 373.309, FS. History—New 1-9-86; Amended 8-10-87, 4-5-88, 8-1-89, 12-1-90, 11-1-92. Formerly 40A-3.701(2), FAC.

#### **40A-3.517 GROUTING AND SEALING.**

Wells shall be grouted and sealed to protect the water resource from degradation caused by movement of waters along the well annulus either from the surface to the aquifer or between aquifers, and to prevent loss of artesian pressure in artesian aquifers. All wells shall be constructed and sealed using a method which insures that an open or unnaturally permeable annular space does not remain when a well is completed.

(1) Rotary wells located south of the grout line. Wells constructed by the rotary method and located south of the grout line established in Appendix I of these rules shall have an annular space between the casing and the borehole wall of not less than two inches and shall be sealed according to the following criteria:

(a) All diameter wells constructed by the rotary method and completed into a consolidated formation shall be sealed by filling the annular space with a two-inch thickness of grout

from the bottom of the casing to the land surface.

(b) Wells constructed by the rotary method and completed into an unconsolidated formation shall be sealed by filling the annular space with a two-inch thickness of grout from a point above the top of the screen to the land surface if:

1. The well is a public water system as defined in Section 40A-3.021(35) of this rule;
2. The well is for Limited Use Public Supply Use as defined in Section 40A-3.021(31) of this rule;
3. The well has a diameter of six inches or larger;
4. The well penetrates a confining bed;
5. The well is to be located within one thousand (1,000) feet of any source of pollution, including plants processing hazardous or toxic substances, sanitary landfills (active or closed), sewage percolation ponds, sewage spray irrigation fields, toxic waste disposal systems of any kind including known ground water contamination areas, or other such sources of pollution; or
6. The well, with an approved exemption from the District, is to be located within seventy-five (75) feet of an onsite sewage disposal system (OSDS).

(c) Wells constructed by the rotary method and completed into an unconsolidated formation, but which do not meet the conditions identified in subparagraph (1)(b), shall be sealed by filling the annular space with uncontaminated, well-compacted sand and sealing the top of the casing with grout that contains a minimum of one (1) cubic foot of cement.

(2) Rotary wells located north of the grout line. Wells constructed by the rotary method and located north of the grout line established in Appendix I of these rules shall have an annular space between the casing and the borehole wall of not less than two inches and shall be sealed according to the following criteria:

(a) Wells constructed by the rotary method and completed into a consolidated formation shall be sealed by filling the annular space with a two-inch thickness of grout from the bottom of the casing to the land surface if:

1. The well is a public water system as defined in Section 40A-3.021(35) of this rule;
2. The well is for Limited Use Public Supply Use as defined in Section 40A-3.021(31) of this rule;
3. The well has a diameter of six (6) inches or larger;
4. The well is to be located within one thousand (1,000) feet of any source of pollution, including plants processing hazardous or

toxic substances, sanitary landfills (active or closed), sewage percolation ponds, sewage spray irrigation fields, toxic waste disposal systems of any kind including known ground water contamination areas, or other such sources of pollution; or

5. The well, with an approved exemption from the District, is to be located within seventy-five (75) feet of an onsite sewage disposal system (OSDS).

(b) Wells constructed by the rotary method and completed into a consolidated formation, but which do not meet the conditions identified in subparagraph (2)(a), shall be sealed by filling the annular space with a two-inch thickness of grout from the bottom of the casing up to a minimum distance of twenty (20) feet, or into the last confining bed encountered, whichever is greater. The remainder of the annular space shall be filled with uncontaminated, well compacted sand, clay, or other material that is appropriate for the specific geological conditions encountered and that will prevent degradation of the water resource. The top of the casing shall be sealed with grout that contains a minimum of one (1) cubic foot of cement. Prior approval for the use of alternative methods or materials shall be obtained from the District.

(c) Wells constructed by the rotary method and completed into an unconsolidated formation shall be sealed by filling the annular space with a two-inch thickness of grout

from a point above the top of the screen to the land surface if:

1. The well is a public water system as defined in Section 40A-3.021(35) of this rule;
  2. The well is for Limited Use Public Supply Use as defined in Section 40A-3.021(31) of this rule;
  3. The well has a diameter of six inches or larger;
  4. The well penetrates a confining bed;
  5. The well is to be located within one thousand (1,000) feet of any source of pollution, including plants processing hazardous or toxic substances, sanitary landfills (active or closed), sewage percolation ponds, sewage spray irrigation fields, toxic waste disposal systems of any kind including known ground water contamination areas, or other such sources of pollution; or
  6. The well, with an approved exemption from the District, is to be located within seventy-five (75) feet of an onsite sewage disposal system (OSDS).
- (d) Wells constructed by the rotary method and completed into an unconsolidated formation, but which do not meet the conditions identified in subparagraph (2)(c), shall be sealed by filling the annular space with uncontaminated, well-compacted sand and sealing the top

of the casing with grout that contains a minimum of one (1) cubic foot of cement.

- (3) Driven wells located north or south of the grout line. Wells with casing which is driven starting at the land surface and thence to its final depth in a borehole that is equal to or smaller in diameter than the outside diameter of the casing, or which is driven starting at the land surface and thence to its final depth ahead of the drill bit, shall be sealed with grout if:
  - (a) Any part of the well is constructed by setting the casing in a previously constructed borehole which is larger in diameter than the outside diameter of the final casing, or, for any other reason, a space is created between the borehole and the casing. Such a well shall be sealed by filling the annular space with grout from bottom to top.
  - (b) The well is a public water system as defined in Section 40A-3.021(35) of this rule or is for Limited Use Public Supply Use as defined in Section 40A-3.021(31) and the well is constructed by driving casing into a consolidated formation. Such a well shall be sealed by under-cutting or under-reaming the last five (5) feet of the hole before seating the casing. A minimum of one (1) foot of the enlarged hole must be in the consolidated formation in which the casing will be seated. The entire enlarged portion of the hole shall be filled with grout and the casing driven through the grout to refusal. The upper twenty (20) feet of the well shall have an annulus not less than two inches, and shall be sealed

by filling the annular space with grout.

(4) Grouting and sealing of water wells shall be accomplished in the following manner unless an exemption is granted by the District for the use of alternative methods or materials that are appropriate for the specific geological conditions encountered and that prevent degradation of the water resource.

(a) Composition of neat cement grout shall not exceed six (6) gallons of water per cubic foot or 94-pound sack of Portland cement.

(b) The casing shall be centered in the borehole prior to grouting and sealing.

(c) In all cases, neat cement grout will be introduced into the annular space from bottom to top.

(d) The minimum set time for grouting of casing before drilling operations may continue will be as specified in Table 3 below.

**TABLE 3  
GROUT SETTING REQUIREMENTS**

<u>TYPE OF WELL</u>	<u>STEEL CASING</u>	<u>PVC CASING</u>
Public Supply Well	MINIMUM OF 72 HOURS	MINIMUM OF 72 HOURS
Limited Use Public Supply Well	MINIMUM OF 12 HOURS	MINIMUM OF 12 HOURS
Other Wells: 4 Inches and Smaller in Diameter	Driven into a consolidated formation with drive shoe MINIMUM OF 2 HOURS	Constructed into a consolidated formation utilizing a shell packer MINIMUM OF 4 HOURS
	Not driven into a consolidated formation but utilizing a shell packer MINIMUM OF 4 HOURS	Constructed into a consolidated formation not utilizing a shell packer MINIMUM OF 12 HOURS
	Sand-and-gravel wells which penetrate a confining bed and which do not utilize a shell packer MINIMUM OF 12 HOURS	Sand-and-gravel wells which penetrate a confining bed and which do not utilize a shell packer MINIMUM OF 12 HOURS
Larger than 4 Inches in Diameter	MINIMUM OF 12 HOURS	MINIMUM OF 12 HOURS

(5) Other approved methods and materials may be used if they are appropriate for the specific geological conditions encountered and if they prevent degradation of the water resource. Prior

approval for the use of alternative methods or materials shall be obtained from the District.

- (6) In those cases where, during grouting operations, circulation of the neat cement grout is lost so that the annular space being grouted cannot be filled in one continuous operation, a tremie pipe shall be installed in the annular space to a point immediately above the zone of lost circulation; and the annulus shall be bridged at that point by sand or other suitable material introduced through the pipe until a level is reached at which grouting can be continued.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.306, 373.308, 373.309, FS. History—New 1-9-86; Amended 8-10-87, 4-5-88, 8-1-89, 12-1-90, 11-1-92, 11-1-93. Formerly 40A-3.701(2)(e), FAC.

#### **40A-3.521 WELL SEALS.**

- (1) Temporary Well Seals. Whenever there is a temporary interruption in work on the well during construction, repair, or abandonment, the well opening shall be sealed with a substantial watertight cover. Except for those areas of the District with the concurrence of the Department, any well in which pumping equipment is installed seasonally or periodically shall, whenever pumping equipment is not installed, be capped with a watertight cap or valve.
- (2) Permanent Well Seals. Wells located on ground subject to flooding shall be properly sealed to prevent the movement of contaminants and surface water into the well. The upper end of the well casing shall include a watertight seal with any vent above the 100-year flood level. Pumping equipment and any necessary pipe or electrical connections shall be so installed as to prevent inadvertent introduction of contaminants into the well. Pumping equipment and any necessary piping or electrical connections installed within the casing shall be installed through a well seal.

An unobstructed inspection port equipped with a removable plug shall be provided and be accessible at the wellhead.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.306, 373.308, 373.309, FS. History—New 1-9-86.

#### **40A-3.525 EXPLOSIVES.**

The use of explosives in well construction or development is prohibited unless it can be shown their use will not cause degradation of the water resource and will not endanger the health, safety, or welfare of the people. The use of explosives must be specifically approved by the District.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.306, 373.308, 373.309, FS. History—New 1-9-86, Amended 4-5-88.

#### **40A-3.529 FLOWING WELLS.**

If the well flows at land surface, a valve shall be provided and maintained for controlling the discharge from the well. For newly constructed wells, the responsibility for controlling the discharge from the well becomes the owner's upon the water well contractor's submission of a well completion report to the District.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.206, 373.209, 373.306, 373.308, 373.309, FS. History—New 1-9-86; Formerly 40A-3.701(4).

#### **40A-3.531 ABANDONED WELL PLUGGING.**

- (1) All abandoned wells shall be plugged.
- (2) It shall be the responsibility of:
- (a) The water well contractor to plug any well drilled under his license which is not completed or is not

suitable for its intended use when work is completed. Wells which are not completed by the contractor shall be plugged prior to the well drilling rig being removed from the site. A well which is determined to be unsuitable for its intended use shall be plugged within fourteen (14) days of notification from the District.

(b) The property owner to have properly plugged any existing abandoned well on his property, or any well on his property which, following construction, attains the state of an abandoned well as defined in 40A-3.021(1) of these rules.

(3) Any well which was not constructed in accordance with the standards of Part II of these rules and fails to be corrected within a time certain may be deemed an abandoned well.

(4) Abandoned wells shall be plugged by filling them from bottom to top with grout, unless otherwise provided by the District. The use of alternative methods or materials shall not cause degradation of the water resource.

(5) Abandoned wells shall be plugged only by a licensed water well contractor.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.206, 373.207, 373.209, 373.306, 373.308, 373.309, FS. History—New 1-9-86; Amended 4-5-88, 8-1-89; Formerly 40A-3.701(5).

#### **40A-3.550 VIOLATIONS OF CONSTRUCTION STANDARDS.**

(1) Acts or omissions which constitute violations of Part II of these rules governing well construction standards, shall include:

(a) Failure to meet the location requirements of Section 40A-3.504.

(b) Failure to meet the casing specifications provided in Section 40A-3.507.

(c) Failure to provide an antisiphon device on wells for irrigation systems.

(d) Failure to disinfect a well constructed for potable use.

(e) Failure to provide a nominal two-inch annulus in rotary constructed wells.

(f) Failure to properly seal the annular space of any well.

(g) Failure to plug an abandoned well.

(h) Failure to comply with any order for corrective work.

(i) Failure to fulfill any other applicable requirements of Chapter 373, Part III, Florida Statutes, or Chapter 40A-3, Florida Administrative Code.

(2) Actions which may be taken by the District staff upon determination that a violation has occurred are outlined in Section 40A-3.980 of these rules.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.306, 373.308, 373.309, 373.319, FS. History—New 1-9-86; Amended 11-1-92.

#### **40A-3.701 CONSTRUCTION STANDARDS.**

Specific Authority: 373.044, 403.812, 403.861(8), (9), 373.309, FS, 17-1.04(8), FAC. Law Implemented: 373.313, 373.316, FS, 17-21, FAC. History—New 4-14-80; Amended 10-27-80, 4-13-81, 2-1-82, 3-29-84; Repealed 1-9-86. Formerly 16G-3.70, 16G-3.21.

## **PART III - DRILLER REGISTRATION**

### **40A-3.721 DRILLER REGISTRATION.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.308, 373.323, 373.326, FS.  
History—New 10-1-84; Amended 1-9-86; Repealed 8-1-89.

### **40A-3.725 RESPONSIBILITY OF CONTRACTOR.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.308, 373.323, 373.326, FS.  
History—New 10-1-84; Repealed 8-1-89.

### **40A-3.727 TYPE OF REGISTRATION.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.308, 373.323, 373.326, FS.  
History—New 10-1-84; Repealed 8-1-89.

### **40A-3.733 EXEMPTIONS.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.308, 373.323, 373.326, FS.  
History—New 10-1-84; Repealed 1-9-86.

### **40A-3.751 ENFORCEMENT AND PENALTIES.**

Specific Authority: 373.044, FS, 17-21, FAC.  
Law Implemented: 373.126, 373.333, FS.  
History—New 4-14-80;  
Transferred to 40A-3.980. Formerly 16G-3.75, 16G-3.76, 16G-3.31, 16G-3.32.

### **40A-3.752 REFUSAL, SUSPENSION, OR REVOCAION OF REGISTRATION.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.308, 373.323, 373.326, FS.  
History—New 10-1-84; Amended 1-9-86; Repealed 8-1-89.

### **40A-3.763 EXAMINATIONS.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.308, 373.323, 373.326, FS.  
History—New 10-1-84; Repealed 8-1-89.

### **40A-3.901 FORMS AND INSTRUCTIONS.**

The following District forms are used in the implementation of this Chapter and are hereby incorporated by reference into this rule.

- (1) NFWFMD Form 10; Application to Construct, Repair, or Abandon a Well (Effective: 11-1-95).
- (2) NFWFMD Form 114; Well Completion Report (Effective 11/1/95).
- (3) NFWFMD Form No. 88; Application for Water Well Contractor License, (Effective 6-22-89);
- (4) NFWFMD Form 122; Request For Below Grade Well Casing Approval (Effective 11-1-92).

Necessary forms may be obtained from:  
District Headquarters, 152 Water Management Drive, Havana, FL 32333-9700, (850) 539-5999; Marianna Field Office, 4765 Pelt Street, Marianna, FL 32446, (850) 482-9522; Crestview Field Office, 800 Hospital Drive, Crestview, FL 32539-7385, (850) 683-5048.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337 FS, 62-532, FAC. Law Implemented: 373.306, 373.308, 373.309, FS. History—New 4-14-80; Amended 10-27-80, 2-1-82, 1-9-86, 8-1-89, 12-1-90, 2-14-91, 11-1-92, 11-1-93, 11-1-95. Formerly 16G-3.90.

## **PART IV - SUSPENSION AND REVOCATION OF WATER WELL CONTRACTOR LICENSES**

### **40A-3.951 INTRODUCTION.**

The purpose of this part is to implement the delegation of Section 373.333, Florida Statutes, under provisions of Subsection 62-101.040(10), Florida Administrative Code, by the Department of Environmental Protection to the Northwest Florida Water Management District. This delegation provides authority to the District to suspend or revoke the license issued pursuant to Section 373.333, Florida Statutes, of any holder of such license who has violated any provision of Part III, Chapter 373, Florida Statutes, or any rule or regulation adopted pursuant to this part.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.333(6), FS.  
History—New 2-1-82; Amended 1-9-86, 11-1-93.

### **40A-3.952 VIOLATIONS.**

- (1) Violations for purposes of this Part IV shall mean the failure of any licensee or his agents or employees to comply with the provisions of Chapter 373, Florida Statutes, Chapter 40A-3, Florida Administrative Code, Chapter 62-531, Florida Administrative Code, Chapter 62-532, Florida Administrative Code, or Chapter 62-555, Florida Administrative Code.
- (2) A licensee will be notified of any violation according to the procedures specified in Chapter 62-531, herein adopted by reference.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.323, FS.  
History—New 2-1-82; Amended 1-9-86, 8-1-89.

### **40A-3.953 PROCEDURE.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.323, FS.  
History—New 2-1-82; Repealed 8-1-89.

### **40A-3.954 REPORTING OF DRILLERS NOT REQUIRED TO BE LICENSED.**

Specific Authority: 17-1.04(8), FAC.  
Law Implemented: 373.323(3), (6), FS.  
History—New 2-1-82; Repealed 1-9-86.

### **40A-3.955 SUSPENSION; SUSPENSION WITH CONDITIONS.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.323, FS.  
History—New 2-1-82; Repealed 8-1-89.

### **40A-3.956 REVOCATION.**

Specific Authority: 373.044, 373.113, FS.  
Law Implemented: 373.323, FS.  
History—New 2-1-82; Repealed 8-1-89.

## **PART V - ENFORCEMENT AND PENALTIES**

### **40A-3.980 ENFORCEMENT AND PENALTIES.**

- (1) Enforcement of these rules shall be as provided by Chapter 373, Florida Statutes and Chapter 62-531, Florida Administrative Code, adopted herein by reference.
- (2) Penalties for violation of these rules shall be as provided by Chapter 373, Florida Statutes and Chapter 62-531, Florida Administrative Code, herein adopted by reference.

Specific Authority: 373.044, 373.113, 373.171, 373.309, 373.337, FS. Law Implemented: 373.333, 373.336, FS.  
History—New 4-14-80; Amended 10-1-84, 8-1-89; Formerly 16G-3.75, 16G-3.76, 16G-3.31, 16G-3.32, 40A-3.751, FAC.

# APPENDIX I

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301



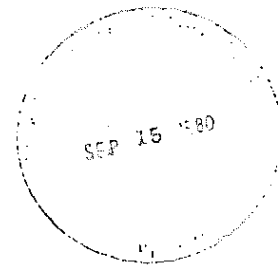
BOB GRAHAM  
GOVERNOR  
JACOB D. VARN  
SECRETARY

STATE OF FLORIDA

## DEPARTMENT OF ENVIRONMENTAL REGULATION

September 10, 1980

Mr. J. William McCartney  
Executive Director  
Northwest Florida Water Management  
District  
Route 1, Box 3100  
Havana, Florida 32333



Dear Bill:

This is in response to your letters of August 1, 1980 and August 15, 1980, and the meetings between our staffs relative to your District's request for an exemption under the provisions of Section 17-21.10, Florida Administrative Code.

Under provisions of Section 373.326, Florida Statutes, the Department concurs with your request and the following exemptions from the water well construction standards contained in Section 17-21.10(2)(d), Florida Administrative Code, are granted.

The attachment to this letter contains the description of a line extending across the area of the Northwest Florida Water Management District. Within the area to the north of the line, private water wells with a casing diameter less than four and one-half inches (4½") inside diameter constructed with the casing installed in a borehole larger than the outside diameter of the casing may be exempt from the full grouting requirements of Section 17-21.10(2)(d), Florida Administrative Code, under the following conditions:

- a) The borehole shall be nominally four inches (4") larger than the outside diameter of the casing.
- b) The annular space between the well and the borehole shall be filled from the bottom of the casing up to at least twenty feet (20') or twenty feet (20') into the fast confining bed encountered, whichever is greater. The remainder of the annular space shall be filled with clean, well-compacted sand, clay, or other approved material. The top of the annular space shall be sealed with at least one cubic foot (1 ft<sup>3</sup>) of grout.


original typed on 100% recycled paper

Mr. J. William McCartney  
Page Two  
September 10, 1980

- c) The well is located more than one thousand feet (1,000') from any plant processing hazardous or toxic substances, any hazardous waste disposal sites, sanitary landfills, whether these sites are active or closed, sewage percolation ponds or spray irrigation fields, and any other such sources of pollution which could endanger the health or welfare of the inhabitants of the area.
- d) The well is located more than seventy-five feet (75') from an individual domestic septic tank drain field.
- e) The well is constructed in an unconsolidated formation, does not penetrate any competent and continuous confining beds, and is finished with a well screen. In such cases, any annular space will be filled with well-compacted, clean sand with a seal at the top of the casing of not less than one cubic foot (1 ft<sup>3</sup>) of grout.

Thank you for the opportunity to be of assistance.

Sincerely,

  
Jacob D. Varn  
Secretary

JDV/mm  
Attachment

cc: Sanford Young  
Robert V. Krieyel  
Rodney DeHan



**BOUNDARIES OF THE  
NORTHWEST FLORIDA  
WATER MANAGEMENT  
DISTRICT GROUT LINE**

**JEFFERSON COUNTY:**

Beginning at the S/E corner of Section 18, Township 4 South, Range 4 East, continue west on a tangent across the south line of Sections 13, 14, 15, 16, and 17, to the S/W corner of Section 18, adjoining the Eastern Wakulla County line.

**WAKULLA COUNTY:**

Beginning at the S/E corner of Section 13, Township 4 South, Range 2 East, continue on a tangent across the south line of Sections 14, 15, 16, 17, to the S/W corner of Section 18. Beginning at the S/E corner of Section 13, Township 4 South, Range 1 East, continue on a tangent across the south line of Section 13 to the St. Marks River in Section 14; thence N/W for a distance of approximately 1 mile across river to the S/E corner of R.S. 9, Township 4 South, Range 1 East of the Hartsfield Survey; thence south and west along the south line of Hartsfield Survey, Sections 2, 9, 13, 100, 99, 98, 97, 96, 95, 94, 93, and 92 to the N/W corner of Section 101 of the Hartsfield Survey; thence south on the East line of Sections 1 and 12 to the S/E corner of Section 13, Township 5 south, Range 2 West; thence west along the south line of Sections 13, 14, 15, 16, 17, and 18; thence west along the south line of Section 13, Township 5 South, Range 3 West across 14 and to the S/W corner of Section 15, thence south along the west line of Sections 22, 27, and 34 to the Ochlockonee River, all lying and being in Wakulla County, Florida.

**FRANKLIN COUNTY:**

Beginning at the S/E corner of Section 28, across Ochlockonee River, Township 5 South, Range 3 West, continue south along the east line of Section 33, to S/E corner of Section 33; thence east across Crooked River to the N/E corner of Section 4, Township 6 South, Range 3 West; thence south along the east line of Sections 4, 9, 16, and 21, to the S/E corner of Section 28; thence west along the south line of Section 28, to the S/W corner of Section 29; thence south to the S/E corner of Section 31; thence West along the south line of Section 31 to the S/W corner of Section 36, Township 6 South, Range 4 West; thence south along the east line of Section 2, to the S/E corner; thence west along the south line of Section 2, to the S/W corner of Section 3; thence south along the east line of Section 9 to the S/E corner; thence west along the south line of Section 9 to the S/W corner of Section 8; thence south 2640 feet along the east line of Section 7, to the S/E corner; thence west across Crooked River on the south line of Section 7 to the S/W corner of Section 12, Township 7 South, Range 5 West; thence south along the east line of Section 14, to the S/E corner; thence west along the south line of Sections 14, 15, 16, 17, and 18; thence continue west across Section 13, Township 7 South, Range 6 West, 14, 15, 16, and 17 to the S/W corner of Section 18; thence north along the east line of Sections 13 and 12 to the N/E corner of Section 1; thence west along the north line of Sections 1, 2, 3, 4, and 5 to the N/W corner of Section 6, Township 7 south, Range 7 West; thence west along the north line of Section 1 to the west bank of the Apalachicola River, Township 7 South, Range 8 West; thence north and east along the west bank of the Apalachicola River 1320 feet; thence west along a line crossing the northernmost head of Smokehouse Creek, continuing west

across Bearman Creek on Forbes Island to the west bank of Brothers River, all lying and being in Franklin County, Florida.

**GULF COUNTY:**

Beginning at the west bank of the Brothers River along the south line of Section 33, Township 6 South, Range 8 West, continue west across Sections 32 and 31 to the S/E corner of Section 36, Township 6 South, Range 9 West; thence west along the south line of Sections 36, 35, 34, 33, 32, and 31 to the S/W corner of Section 36, Township 6 South, Range 10 West; thence west across the south line of Section 35 to the S/W corner of Section 34; thence north along the east line of Sections 33 and 28 to the N/E corner of Section 21; thence west along the south line of Sections 16 and 17 to the S/W corner of Section 18; thence north along the east line of Sections 13 and 12 to the N/E corner of Section 1, Township 5 South, Range 11 West; thence west along the south line of Section 36 to the S/W corner of Section 35; thence north along the east line of Section 34, on a tangent line of Wetappo Creek, continuing the east line of Section 27 to the N/E corner of Section 22; thence west along the south line of Sections 15, 16, 17, and 18 to the Bay County line, all lying and being in Gulf County, Florida.

**BAY COUNTY:**

Beginning at the S/E corner of Section 13, Township 5 South, Range 12 West, continue north along the Gulf County line to the S/E corner of Section 36, Township 4 South, Range 12 West; thence west along the south line of Sections 36 and 35 to the S/W corner of Section 34; thence north along the east line of Sections 33 and 28 to the N/E corner of Section 21; thence west along the south line of Sections 16 and 17 to

the S/W corner of Section 18, Township 4 South, Range 12 West; thence west along the south line of Sections 13, 14, 15, 16, and 17 to State Road 729 north; thence continue west along the North R/W line of State Road 729 west to the West R/W line of State Road 30A in Parker, Florida; thence north along the West R/W line of State Road 30A to the S/W corner of Section 6, Township 4 South, Range 14 West; thence west through Springfield, Florida, along the south line of Section 1, and continue onto the east shore of Watson Bayou at the S/W corner of Section 3; thence north along the west line of Section 3 to the N/W corner at the intersection of the south R/W line of U.S. 98, thence west along the south R/W line of U.S. 98 to the west R/W line of State Road 391, Township 3 South, Range 15 West, thence north along the west R/W line of State Road 391 to the S/E corner of Section 25; thence west along the south line of Section 25, across West Bay on the north side of Hathaway Bridge, and continuing west to the S/W corner of Section 30, Township 3 South, Range 16 West; thence north along the east line of Section 25 to the N/E corner of Section 24; thence West along the south line of Sections 13, 14, and 15 to the S/W corner of Section 16; thence north along the east line of Section 17 to the N/E corner of Section 8; thence west along the south line of Section 5 to the S/W corner of Section 6; thence continue west to the S/W corner of Section 1, Township 3 South, Range 17 West; thence north along the east line of Sections 2 and 35 to the N/E corner of Section 26; thence west on the south line of Sections 23, 22, 21, and 20 to the S/W corner of Section 19, Township 2 South, Range 17 West at the Walton County line, all lying and being in Bay County, Florida.

**WALTON COUNTY:**

Beginning at the S/E corner of Section 24, Township 3 South, Range 18 West, at the Bay County line, continue west along the south line of Section 24 to the S/W corner; thence north along the east line of Section 23 to the S/E corner of Section 14; thence west along the south line of Sections 14, 15, 16, and 17 to the S/W corner of Section 18, Township 3 South, Range 18 West; thence north along the east line of Sections 13, 12, and 1, Township 3 South, Range 19 West; thence north along the east line of Sections 36, 25, 24, 13, and 12, to the N/E corner of Section 1; thence west along the south line of Section 36 to the S/W corner of Section 35, Township 1 South, Range 19 West; thence north along the east line of Sections 34 and 27 to the N/E corner of Section 22; thence west along the north line of Sections 22 and 21 to the N/W corner of Section 20; thence north along the east line of Section 18, to the N/E corner; thence west along the south line of Section 7 to the S/E corner of Section 12, Township 1 South, Range 20 West; continue west along the south line of Sections 12, 11, 10, and 9 to the S/W corner of Section 8; thence south along the east line of Section 18 to the S/E corner; thence west along the south line of Section 18, Township 1 South, Range 21 West; continue west on the south line of Sections 13 and 14 to the S/W corner of Section 15; thence south along the east line of Section 21 to the S/E corner; thence west along the south line of Sections 21 and 20 to the S/W corner of Section 19, Township 1 South, Range 21 West at the Okaloosa County line, all lying and being in Walton County, Florida.

**OKALOOSA COUNTY:**

Beginning at the S/E corner of Section 24, Township 1 South, Range 22 West at the Walton County line, continue west along the

south line of Section 24 to the S/W corner; thence north along the east line of Sections 23, 14, and 11 to the N/E corner of Section 2; thence west along the south line and the Tallahassee Base Line of Sections 35, 34, 33, and 32 to the S/E corner of Section 31, Township 1 North, Range 22 West; thence continue west along the south line of Section 36 to the S/W corner of Section 35, thence south along the east line of Sections 3 and 10 to the S/E corner of Section 15; thence west along the south line of Sections 15, 16, and 17 to the S/W corner of Section 18, Township 1 South, Range 23 West; thence continue west along the south line of Sections 13, 14, and 15 to the S/W corner of Section 16; thence south along the east line of Sections 20 and 29 to the S/E corner of Section 32; thence west along the south line of Section 32 and to the S/W corner of Section 31, Township 1 South, Range 24 West; thence continue along the south line of Sections 36, 35, 34, 33, and 32 to the S/W corner of Section 31, Township 1 South, Range 25 West at the Santa Rosa county line, all lying and being in Okaloosa County, Florida.

**SANTA ROSA COUNTY:**

Beginning at the S/E corner of Section 36, Township 1 South, Range 26 West at the Okaloosa County line, continue west along the south line of Sections 36 and 35 to the S/W corner of Section 34; thence north along the east line of Sections 33 and 28 to the N/E corner of Section 21; thence continue west along the south line of Sections 16 and 17 to the S/W corner of Section 18; thence continue north along the east line of Sections 13 and 12 to the N/E corner of Section 1 at the Tallahassee Base Line; thence continue north across said Base Line on the east line of Section 36, Township 1 North, Range 27 West, and continue north along the east line of

Sections 25, 24, 13, and 12 to the N/E corner of Section 1; thence west along the south line of Section 36, Township 2 North, Range 27 West; continue west along the south line of Sections 35, 34, 33 and 32 to the S/W corner of Section 31; thence north along the east line of Section 36, Township 2 North, Range 28 West, and continue north along the east line of Sections 25, 24, 13 and 12 to the N/E corner of Section 1; thence west along the south line of Section 36, Township 3 North, Range 28 West, and continue west along the south line of Sections 35, 34, 33, and 32, to the S/W corner of Section 31; thence north along the east line of Section 36, Township 3 North, Range 29 West and

continue north along the east line of Sections 25, 24, 13, and 12 to the N/E corner of Section 1, thence continue north along the east line of Section 36, Township 4 North, Range 29 West, and continue north along the east line of Sections 25, 24, 13, and 12 to the N/E corner of Section 1; thence continue north along the east line of Section 38, Township 5 North, Range 29 West and north along the east line of Sections 27, 26, 15, and 14 to the N/E corner of Section 1; thence continue north along the east line of Section 38, Township 6 North, Range 29 West to the N/W corner of Section 25 at the Alabama State line, all lying and being in Santa Rosa County, Florida.

## APPENDIX II



### STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

- Southwest
- Northwest
- St. Johns River
- South Florida
- Suwannee River

**THIS FORM *MUST* BE FILLED OUT COMPLETELY.**

*The water well contractor is responsible for completing this form and forwarding the permit to the appropriate delegated county where applicable.*

CHECK BOX FOR APPROPRIATE DISTRICT. ADDRESS ON BACK OF PERMIT FORM.

Permit No. _____
Florida Unique I.D. _____
Permit Stipulations Required (See attached) _____
62-524 well <input type="checkbox"/>
CUP/WUP Application No. _____
<b>ABOVE THIS LINE FOR OFFICIAL USE ONLY</b>

Fold at this line in order that address is visible through envelope window.

1.	Owner, Legal Name of Entity if Corporation _____ Address _____ City _____ Zip _____ Telephone Number _____												
2.	Well Location — Address, Road Name or Number, City _____												
3.	Well Drilling Contractor _____ License No. _____ Telephone No. _____												
4.	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Address _____</td> <td style="width: 10%; text-align: center; padding: 2px;">1/4 of</td> <td style="width: 10%; text-align: center; padding: 2px;">(smallest)</td> <td style="width: 10%; text-align: center; padding: 2px;">1/4 of</td> <td style="width: 10%; text-align: center; padding: 2px;">(biggest)</td> <td style="width: 10%; text-align: center; padding: 2px;">Section</td> </tr> <tr> <td style="padding: 2px;">City _____ State _____ Zip _____</td> <td colspan="5" style="text-align: center; padding: 2px;">(Indicate Well on Chart)</td> </tr> </table>	Address _____	1/4 of	(smallest)	1/4 of	(biggest)	Section	City _____ State _____ Zip _____	(Indicate Well on Chart)				
Address _____	1/4 of	(smallest)	1/4 of	(biggest)	Section								
City _____ State _____ Zip _____	(Indicate Well on Chart)												
5.	Township _____ Range _____												
6.	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 12.5%; padding: 2px;">County _____</td> <td style="width: 12.5%; padding: 2px;">Subdivision Name _____</td> <td style="width: 12.5%; padding: 2px;">Lot _____</td> <td style="width: 12.5%; padding: 2px;">Block _____</td> <td style="width: 12.5%; padding: 2px;">Unit _____</td> </tr> </table>	County _____	Subdivision Name _____	Lot _____	Block _____	Unit _____							
County _____	Subdivision Name _____	Lot _____	Block _____	Unit _____									
7.	Number of proposed wells _____ Check the use of well: (See back of permit for additional choices) _____ Domestic _____ Monitor (type) _____ _____ Irrigation (type) _____ Public Water Supply (type) _____ List Other _____ (See Back) (See Back) Distance from septic system _____ ft. Description of facility _____ Estimated start of construction date _____												
8.	Application for: _____ New Construction _____ Repair/Modify _____ Abandonment _____ (Reason for Abandonment) _____												
9.	Estimated: Well Depth _____ Casing Depth _____ Screen Interval from _____ to _____ Casing Material: Blk-Steel / Gal / PVC _____ Casing Diameter _____ Seal Material _____												
10.	If applicable: Proposed From _____ to _____ Seal Material _____ Grouting Interval From _____ to _____ Seal Material _____ From _____ to _____ Seal Material _____												
11.	Telescope Casing _____ or Liner _____ (check one) Diameter _____ Blk-Steel / Galvanized / PVC _____ Other (specify: _____)												
12.	Method of Construction: _____ Rotary _____ Cable Tool _____ Combination _____ _____ Auger _____ Other (specify: _____)												
13.	Indicate total No. of wells on site _____. List number of unused wells on site _____.												
14.	Is this well or any other well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ___ No ___ Yes (If yes, complete the following) CUP/WUP No. _____ District well I.D. No. _____ Latitude _____ Longitude _____ Data obtained from GPS _____ or map _____ or survey _____ (map datum NAD 27 _____ NAD 83 _____)												
15.	I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code, and that a water use permit or artificial recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided on this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable. I agree to provide a well completion report to the District within 30 days after drilling or the permit expiration, whichever occurs first.												

Date Stamp

West

East

South

<b>DO NOT WRITE BELOW THIS LINE — FOR OFFICIAL USE ONLY</b>			
Approval Granted By: _____	Issue Date: _____	Hydrologist Approval _____	Initials _____
Owner Number: _____	Fee Received: \$ _____	Receipt No.: _____	Check No.: _____
THIS PERMIT NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL DRILLING OPERATIONS. <i>This permit is valid for 90 days from date of issue.</i>			
Signature of Contractor _____ License No. _____		Owner's or Agent's Signature _____ Date _____	

**Southwest Florida Water Management District**

2379 Broad Street, Brooksville, FL 34609-6899 Ph: (904) 796-7211 or 800-423-1476

Environmental Action Commission  
P.O. Box 1000  
Bradenton, FL 34206-1000

Sarasota County Health Department  
P.O. Box 2658  
Sarasota, FL 34233-2658

**Northwest Florida Water Management District**

Route 1, Box 3099, Havana, FL 32333-9700  
(U.S. Highway 90, 10 miles west of Tallahassee) Ph: (904) 539-5999

**St. Johns Water Management District**

P.O. Box 1429, Palatka, FL 32078-1429 Ph: (407) 897-4349

**South Florida Water Management District**

P.O. Box 24680 3301 Gun Club Road  
West Palm Beach, FL 33416-4680 Ph: (407) 686-8800

**Suwannee River Water Management District**

Route 3 Box 64, Live Oak, FL 32060 Ph: (904) 362-1001 or 800-226-1066

**USE OF WELL – ADDITIONAL CHOICES:**

Recovery	Landscape Irrigation	Recreation Area Irrigation (ball fields, playgrounds)	Aquaculture (fish ponds)
Public Water Supply (DEP) Community Non-Community	Agricultural Irrigation (crops, sod, orchards, nursery stock)	Golf Course Irrigation	Class I Injection Well Class V Injection
Limited Use Public Supply (HRS)	Nursery Irrigation (retail outlets only)	Heat Pump (AC Supply)	Test (temporary) WUP
Livestock	Pesticide Mixing & Loading	Heat Pump (AC Return)	Industrial

**WELL SETBACK DISTANCES:**

- 25 ft. From a treated building slab.
- 75 ft. Domestic – From on site septic system.
- 100 ft. Public Supply and Limited Public Supply less than 2000 GPD Sewage Flow.
- 200 ft. Public Supply and Limited Public Supply greater than 2000 GPD Sewage Flow

These are common setback distances. **However they are not all-inclusive.** Refer to other applicable rules for additional setbacks.

## APPENDIX III

**WELL COMPLETION REPORT** (Please complete in black ink or type.)

PERMIT # \_\_\_\_\_ CUP# \_\_\_\_\_ WUP# \_\_\_\_\_ DID # \_\_\_\_\_

If permit is for multiple wells indicate the number of wells drilled \_\_\_\_\_.

Indicate remaining wells to be cancelled \_\_\_\_\_.

WATER WELL CONTRACTOR'S SIGNATURE \_\_\_\_\_ License # \_\_\_\_\_

*I certify that the information provided in this report is accurate and true.*

Grout	No. of Bags	From (Ft.)	To (Ft.)
Neat Cement:			
Bentonite:			

WELL LOCATION: County \_\_\_\_\_

\_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4 of Section \_\_\_\_\_ Twp: \_\_\_\_\_ Rge: \_\_\_\_\_

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

DATE STAMP

Official Use Only

Sketch of well location on property

Give distances from septic tank and house or other reference points

**CHEMICAL ANALYSIS WHEN REQUIRED**

Iron: \_\_\_\_\_ ppm Sulfate: \_\_\_\_\_ ppm

Chloride: \_\_\_\_\_ ppm

Lab Test  Field Test Kit

Pump Type

Centrifugal  Jet  Submersible  Turbine

Horsepower \_\_\_\_\_ Capacity \_\_\_\_\_ G.P.M. \_\_\_\_\_

Pump Depth \_\_\_\_\_ Ft. Intake Depth \_\_\_\_\_ Ft.

NWFWM Form 114. Rev. 11/1/95

OWNER'S NAME \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_ Florida Unique I.D. \_\_\_\_\_

WELL USE: DEP/Public \_\_\_\_\_ Irrigation \_\_\_\_\_ Domestic \_\_\_\_\_ Monitor \_\_\_\_\_

HRS Limited \_\_\_\_\_ 62-524 \_\_\_\_\_ Other \_\_\_\_\_

DRILL METHOD  Rotary  Cable Tool  Combination

Jet  Auger  Other \_\_\_\_\_

Measured Static Water Level _____	Measured Pumping Water Level _____
After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): _____	
Which is _____ Ft. <input type="checkbox"/> Above <input type="checkbox"/> Below Land Surface	
Casing: <input type="checkbox"/> Black Steel <input type="checkbox"/> Galv. <input type="checkbox"/> PVC Other _____	

<input type="checkbox"/> Open Hole <input type="checkbox"/> Screen	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color   Grain Size   Type of Material
	From	To	
Casing Diameter & Depth (Ft.)			
Diameter _____			
From _____			
To _____			
Diameter _____			
From _____			
To _____			
Liner <input type="checkbox"/> or Casing <input type="checkbox"/>			
Diameter _____			
From _____			
To _____			

Driller's Name: \_\_\_\_\_  
(print or type)





District Headquarters  
(10 miles west of Tallahassee on U.S. Highway 90)  
152 Water Management Drive  
Havana, FL 32333-9700  
(850) 539-5999

Marianna Field Office  
4765 Pelt Street  
Marianna, FL 32446-6846  
(850) 482-9522

Crestview Field Office  
800 Hospital Drive  
Crestview, FL 32539-7385  
(850) 683-5048

Visit Us on the Web at:  
[www.state.fl.us/nwfwmd](http://www.state.fl.us/nwfwmd)