



ST. TAMMANY PARISH

PATRICIA P. BRISTER
PARISH PRESIDENT

August 22, 2018

Please find the following addendum to the below mentioned BID.

Addendum No.: 1

Bid#: 316-00-18-42-2

Project Name: River Glen Drainage

Bid Due Date: Wednesday, August 29, 2018

GENERAL INFORMATION:

1. Please remove Unit Price Sheet Section 04 and replace it with Unit Price Sheet Rev.(Attached)
2. Please remove Plan Sheet 3a and replace it with Plan Sheet 3a Rev. (Attached)
3. Please add LAC56 Part I Water Wells Chapter 5 to Section 03. (Attached)

QUESTIONS & ANSWERS:

Question 1: Is the unit of measure for item 203-06-00100 Excavation and Embankment (LF) correct? Should this unit of measure be cubic yard?

Answer 1: Item 203-06-00100 Excavation and Embankment shall be paid for by linear foot of excavation. It shall be the contractor's responsibility to estimate the cubic yardage based on the required sta. 24+44 to 26+56 cross section provided on plan sheet 2a.

Question 2: Is the quantity of 62 SY for item 510-01-00104 Pavement Patching (10" Minimum Thickness) in the unit price form sheet correct? Plan sheet 3a has 2 separate locations for a total that should be 114 SY.

Answer 2: The correct quantity for Item 510-01-00104 Pavement Patching (10" Minimum Thickness) is 114 SY. See attached revised unit price sheet and plan sheet 3a.

Question 3: Is it the Owners responsibility to provide and pay for Testing Lab Services?

Answer 3: It is the Contractor's responsibility to provide testing lab services.

Question 4: Can you please provide a detail or a description on how to plug existing water wells?

Answer 4: Water well shall be plugged in accordance with section 202.06 of the standard specifications and Louisiana Administrative Code Title 56, Part I, Chapter 5. (Attached).

Question 5: Will the servitude be cleared of fences, sheds and other obstructions or will the Contractor be responsible?

Answer 5: There will be no prior clearing of obstructions within the servitude. The Contractor will be responsible for the removal of all structures and obstructions within the servitude work area. Removal will be paid for by bid item 202-01-00100 Removal of Structures and Obstructions.

ATTACHMENTS:

1. "Unit Price Sheet Rev.pdf"
2. "River Glen Sheet 3a Rev.pdf"
3. "LAC56 Part I Water Wells Chapter 5.pdf"

End of Addendum # 1

LOUISIANA UNIFORM PUBLIC WORK BID FORM UNIT PRICE FORM

TO:

St. Tammany Parish Government
 21454 Koop Drive, Suite 2F
 Mandeville, LA. 70471
(OWNER TO PROVIDE NAME AND ADDRESS OF OWNER)

BID FOR:

River Glen Drainage
 Bid#316-00-18-42-2
 REVISED
(OWNER TO PROVIDE PROJECT NAME & OTHER IDENTIFYING INFO)

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Clearing and Grubbing, Base Bid Area (2.28 AC)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
201-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Structures and Obstructions (Obstructions in servitude)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Asphalt Drives				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-02000	20	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Concrete Walks and Drives				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-06100	30	SQYD		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Pipe (Cross Drain)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-32100	112	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Pipe (Side Drain)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-32120	102	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Pipe (Storm Drain)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-32140	272	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Plugging Existing Water Wells				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-07-00100	1	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Excavation and Embankment				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-06-00100	212	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Cleaning Existing Ditches				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-10-00100	1160	LNFT		

Version 2017 Q2

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Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Hay Bales				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-02-00100	104	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Silt Fencing				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-06-00100	5000	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Stone Construction Entrance				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-06-00100	2	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Traffic Maintenance Aggregate (Vehicular Measurement)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
402-01-00100	60	CUYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Asphalt Concrete (Drives Turnouts and Misc.)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
502-01-00200	39.2	TON		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Pavement Matching (10" Minimum Thickness)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
510-01-00104	114	SQYD		

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Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Cross Drain Pipe (24" RCP)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
701-01-01001	176	LNFT			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Storm Drain Pipe (18" RPVCP)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
701-03-01020	738	LNFT			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Storm Drain Pipe (24" RPVCP)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
701-03-01040	552	LNFT			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Storm Drain Pipe Arch (52" Quiv. RCPA/PCCMPA)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
701-04-01140	4782	LNFT			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Side Drain Pipe (24" RCP)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
701-05-01060	224	LNFT			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Catch Basins (CB-01)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
702-03-00100	7	EACH			

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Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Catch Basins (CB-02)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-03-00200	10	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Concrete Drive (6" Thick)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
706-02-00200	33.3	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Flowable Fill				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
710-01-00100	5	CUYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Riprap (30lb, 18" Thick)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
711-02-00300	688	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Geotextile Fabric				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
711-04-00100	688	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Signs and Barricades				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
713-01-00100	1	LUMP		

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Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Slab Sodding (St. Augustine)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
714-01-00600	600	SQYD			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Slab Sodding (Centipede)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
714-01-00700	1000	SQYD			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Mulch (Vegetative)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
716-01-00100	3	TON			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Seeding	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
717-01-00100	103	LB			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Fertilizer	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
718-01-00100	2280	LB			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Erosion Control System, Flexible (Channel Liner) (Type C)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
720-01-02000	387	SQYD			

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Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Bedding Material	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
726-01-00100	1115.5	CUYD			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Mobilization	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
727-01-00100	1	LUMP			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Mailboxes	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
735-01-00100	2	EACH			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Mailbox Supports (Single)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
735-02-00100	2	EACH			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Construction Layout	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
740-01-00100	1	LUMP			
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Saw Cutting Asphaltic Concrete Pavement	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
NS-500-00340	64	INLF			

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Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Clearing and Grubbing, Additive Alternate #1 Area (1.77 AC)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
201-01-00100	1	LUMP		
Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Drainage Excavation				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-02-00100	473	CUYD		
Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Embankment				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-03-00100	106	CUYD		
Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Riprap (10 lb, 12" Thick)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
711-02-00300	16	SQYD		
Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Geotextile Fabric				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
711-04-00100	16	SQYD		
Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Mulch (Vegetative)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
716-01-00100	3	TON		

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Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Seeding				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
717-01-00100	79	LB		
Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Fertilizer				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
718-01-00100	1770	LB		
Description: <input type="checkbox"/> BASE BID OR <input checked="" type="checkbox"/> ALT # <u>1</u> Erosion Control System, Flexible (Channel Liner) (Type C)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
720-01-02000	2083	SQYD		
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)

Version 2017 Q2

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

Mulch, Seeding, Fertilizer and Erosion Control System

BEGIN STATION	END STATION	SIDE OF C/L	LENGTH (FEET)	WIDTH (FEET)	AREA (ACRE)	MULCH (VEGETATIVE)	SEEDING (LBS)	FERTILIZER (LBS)	Erosion Control System (Type C) (SQYD)
GENERAL ITEMS									
STA. ALONG RAMBLEWOOD LATERAL									
0+00	24+00	LT.	2400	40	2.20	3.3	99	2,200	0
STA. ALONG RIVER RD									
24+73	26+56	LT.	183	30	0.13	0	6	130	629
ADDITIVE ALTERNATE #1 ITEMS									
STA. ALONG S DITCH									
0+30	12+67	LT.	1237	30	0.85	1.3	38	850	1,237
STA. ALONG N DITCH									
0+00	3+29	RT.	329	30	0.23	0.3	10	230	0
3+29	13+37	RT.	1008	30	0.69	1	31	690	935
GENERAL TOTAL					2.33	3	105	2,330	629
ADDITIVE ALTERNATE #1 TOTAL					1.77	3	79	1,770	2,172

Pavement Patching (10" Minimum Thickness)

Station	Side of C/L	Length (Feet)	Avg. Width (Feet)	Pavement Patching (SQ YD)
STA. ALONG RIVER RD				
29+60	LT.	16.0	35.0	62
37+98	LT.	16.0	29.0	52
GENERAL TOTAL				114

Asphalt Concrete Drives, Turnouts & Misc.

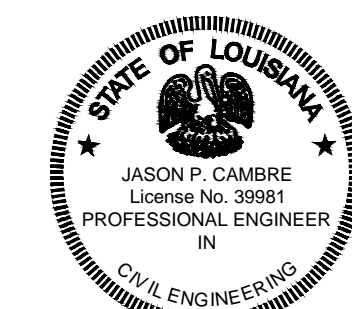
STATION	SIDE OF C/L	DESCRIPTION	LENGTH (FEET)	AVG. WIDTH (FEET)	DRIVES, TURNOUTS & MISC. (TONS)
STA. ALONG RIVER RD					
29+60	LT.	TURNOUT (2" THICK)	16	35	6.8
31+63	LT.	RESIDENTIAL DRIVEWAY (4" THICK)	16	19.6	7.7
37+98	LT.	TURNOUT (2" THICK)	16	29	5.7
40+41	LT.	RESIDENTIAL DRIVEWAY (4" THICK)	16	17.5	6.8
42+04	LT.	RESIDENTIAL DRIVEWAY (4" THICK)	16	19.6	7.7
STA. ALONG RAMBLEWOOD DR					
0+22	RT.	RESIDENTIAL DRIVEWAY (4" THICK)	11.5	16	4.5
GENERAL TOTAL					39.2

Cleaning Existing Ditches

DESCRIPTION	BEGIN STATION	END STATION	LENGTH (FEET)
STA. ALONG RIVER RD			
Clean Existing Ditch	29+72	31+36	164
Clean Existing Ditch	31+68	35+47	379
Clean Existing Ditch	35+71	40+19	448
Clean Existing Ditch	40+42	42+11	169
GENERAL TOTAL			1,160

Concrete Drives

STATION	SIDE OF C/L	DESCRIPTION	LENGTH (FEET)	AVG. WIDTH (FEET)	"W1" (FEET)	"W2" (FEET)	CONCRETE DRIVE (6" THICK) (SQ. YDS.)
STA. ALONG RAMBLEWOOD DR							
4+20	LT.	RESIDENTIAL DRIVEWAY	15	20	16	28	33.3
GENERAL TOTAL							33.3



Jason Cambre
08/17/18

RIVER GLEN DRAINAGE
SUMMARY SHEETS

Rev. No.	Date	Description
1	8/17/18	REVISE QUANTITIES

St. Tammany Parish
Department of Engineering
P.O. Box 628 Orange, La. 70434
Phone: (863) 375-2612
Fax: (863) 375-2616



Project No. 2014EN0030
Date 8/17/2018
Scale NTS
Drawn By JPC
Sheet 3a

E. Pump/Motor Base. To prevent transmission of vibration to the well casing, all surface-mounted pumps/motors (excluding submersible and single-pipe jet pumps/motors) shall be supported by a concrete base, pier or foundation. The well casing shall not be used to support the weight of the surface-mounted pump/motor, except as noted above. Foundations may either be split pier type or solid pedestal type. For solid pedestal foundations, the well casing shall project at least 1 inch above the level of the foundation.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3098.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:959 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:910 (March 2011), LR 37:3530 (December 2011).

§335. Enforcement Actions

A. Provisions addressing enforcement of this Chapter appear in R.S. 38:3097.3, as follows.

1. Whoever knowingly and willfully violates a provision of this Chapter, or a rule, regulation, or order of the director or a board made hereunder, shall be subject to a civil penalty of not more than \$1,000 a day for each day of violation and for each act of violation if a penalty for the violation is not otherwise provided in this Chapter.

a. The place of suit to recover this penalty shall be selected by the director or board, as may be appropriate, in the district court of the parish of the residence of any one of the defendants, or in the district court of the parish where the violation took place.

b. Suit shall be at the direction of the director or board, as may be appropriate, and shall be instituted and conducted in his or its name by the attorney general or by the district attorney of the district under the direction of the attorney general.

2. Whoever knowingly and willfully aids or abets a person in the violation of a provision of this Chapter, or in any rule, regulation, or order made hereunder, shall be subject to the same penalties provided herein for the principal violator.

B. Falsification of Documents. Falsification of documents to evade regulations, as well as penalties for said falsifications, appears in R.S. 38:3095, as follows.

1. No person shall, for the purpose of evading this Chapter, or any rule, regulation, or order made thereunder:

a. make or cause to be made any false entry or statement of fact in any report required to be made by this Chapter or by any rule, regulation, or order made hereunder; or

b. make or cause to be made any false entry in an account, record, or memorandum kept by any person in

connection with the provisions of this Chapter or of any rule, regulation or order made thereunder; or

c. remove out of the jurisdiction of the state, or destroy or mutilate, alter, or by any other means falsify any book, record, or other paper pertaining to the matters regulated by this Chapter or by any rule, regulation, or order made thereunder.

2. Whoever violates this Section shall be fined not more than \$5,000 or imprisoned not more than six months or both.

C. The penalty provision for falsification of documents required under the provisions of this Part are therefore criminal in nature and will be enforced through the district attorney having jurisdiction where said violation occurs. It should also be noted that utilization of the United States Mail in the falsification of documents constitutes a violation of Title 18 of the United States Code (Mail Fraud), and such information will be referred to the appropriate United States attorney.

D. Appeals. An alleged violator may appeal any order of the department by requesting a hearing. The hearing request must be made to the department, in writing, within 30 calendar days of the original order and must be sent by "Certified Mail-Return Receipt Requested." After receiving the request, the department will arrange a hearing to determine what other remedial action will serve to effect compliance with the rules and regulations.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3098.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:959 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:3530 (December 2011).

Chapter 5. Plugging and Sealing of Abandoned Water Wells and Holes

§501. Organization

A. As announced in the October 1985 issue of the *Louisiana Register*, the rules, regulations and standards, stated herein, were prepared by the Louisiana Department of Transportation and Development, Office of Public Works, in accordance with R.S. 38:3091-38:3097. Effective January 1, 2010, in accordance with Act 437 of 2009, The Department of Natural Resources, Office of Conservation, hereafter referred to as "department," is responsible for registering water wells and holes in Louisiana.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:959 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of

Conservation, LR 37:911 (March 2011), LR 37:3530 (December 2011).

§503. Purpose

A. The purpose of the rules, regulations and standards for plugging abandoned water wells and holes, stated herein, is to protect the ground water resources of the state from surface contamination, to prevent movement of water from one aquifer to another, to prevent the entrance of objectionable materials and wastes into aquifers via open or improperly sealed water wells and holes, and to minimize health and safety hazards associated with abandoned wells and holes.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:960 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005).

§505. General Rules and Regulations

A. In 1972, the Louisiana Legislature enacted State Act 535, which authorized the authorizing agency to promulgate reasonable rules and regulations relating to the plugging of abandoned water wells. Section A-6 of this Act (R.S. 38:3094) states that the authorizing agency shall:

"Require that all abandoned wells be reported and sealed with approved standards and to establish such standards."

B. Accordingly, the rules, regulations and standards for plugging abandoned water wells and holes stated herein were prepared in response to this legislative directive and were developed in coordination with other state agencies that are also concerned with the protection of the water resources of the state. The regulations and standards are intended to provide for restoration, as nearly as possible, of those subsurface and surface conditions that existed prior to drilling, boring, digging or augering activities; taking into account any changes that may have occurred as a result of "natural stresses."

C. These regulations and standards do not preempt but instead complement the rules and regulations of the Louisiana Department of Natural Resources, Office of Conservation, related to plugging and abandonment of oil, gas, saltwater, saltwater disposal, waste disposal and injection wells, and the rules and regulations of the Department of Environmental Quality related to plugging of monitoring wells and geotechnical boreholes associated with waste activities. These regulations and standards are also important as guidelines for other state agencies when promulgating and enforcing their plugging regulations and standards.

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Conservation, LR 37:911 (March 2011), LR 37:3530 (December 2011).

§507. Abandoned Water Wells and Holes That Shall Be Plugged

A. The rules, regulations and standards for plugging abandoned water wells and holes shall apply to all abandoned water wells and holes including, but not limited to, public supply, domestic, irrigation/agriculture, industrial, power generation, rig-supply, observation, dewatering, monitoring, and heat pump supply, as well as abandoned pilot holes, test holes, geotechnical boreholes, and heat pump holes (closed loop system). Abandoned or improperly plugged wells or holes could act as conduits for transmitting contaminants from the surface down to the water-bearing sands and thereby contaminate the state's ground water resources. For glossary of terms, refer to §113.A of this Part.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:960 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005).

§509. Exemptions

A. The following wells and holes are exempted from the provisions of the rules, regulations and standards stated herein:

1. saline-water wells associated with secondary recovery operations;
2. brine wells;
3. oil and gas wells and holes;
4. injection wells;
5. geothermal and geopressured holes associated with production of oil and gas; and
6. waste disposal wells.

B. Although the cited activities are not covered by R.S. 38:3094, they are not exempted or excepted by state law; therefore, persons, firms, corporations or others dealing with the cited activities should contact the appropriate regulating agencies for further information and should take any and all action necessary to protect the water resources of the state from contamination. The exclusion of these activities from these regulations does not in any way remove or establish legal liability for health and safety hazards, contamination, or pollution problems alleged to be caused by persons engaged in the activities cited in Subsection A of this Section.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:960 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), LR 37:3530 (December 2011).

§511. Licensing Requirements

A. State Act 715 of 1980 (R.S. 38:3098), as amended by State Act 313 of 1984, requires that every person, firm or corporation desiring to engage in the business of plugging and abandoning wells or holes, excluding oil and gas wells, in the state of Louisiana shall obtain a license from the department in accordance with the rules and regulations stated in LAC 46:LXXXIX.

B. Accordingly, plugging of abandoned water wells and holes must be conducted by a qualified contractor who is duly licensed by the department, with the following exceptions.

1. Nothing in this Chapter shall prevent a person who has not obtained a license, pursuant thereto, from plugging a domestic water well on his own or leased property which is his permanent residence, or was intended for use only for watering livestock on his farm; however, that person shall comply with all rules, regulations and standards for plugging such wells or holes, including the submission of plugging and abandonment forms.

2. In addition to the domestic wells referred to in §511.B.1, a person may plug an abandoned well or hole on his own or leased property provided that the person has the required equipment and knowledge for properly plugging the well or hole, in accordance with the rules, regulations, and standards stated herein, to the satisfaction of the department, and provided that the person has obtained departmental approval for plugging the well or hole himself, and provided that such approval is obtained prior to the beginning of the plugging operation. The owner shall complete and submit a Water Well Plugging and Abandonment Form (DNR-GW-2) to the department within 30 calendar days after completion of the plugging operation.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:960 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:911 (March 2011).

§513. Variance Requests

A. Because of variable hydrologic conditions, differences in well construction, depth, and size, and the irregular occurrence of saltwater sands, the rules, regulations and standards stated herein cannot cover every possible situation. For cases where compliance with the rules, regulations, and standards stated in this Chapter is impractical, the owner, engineer, or the water well contractor may request a variance and/or clarification on methods specified. Such requests shall be addressed to the department as follows:

Louisiana Department of Natural Resources
Office of Conservation
P.O. Box 94275
Baton Rouge, LA 70804-9275
Phone: (225) 342-5562

B. The request must be in writing, must demonstrate that compliance is impractical and must outline a satisfactory alternative. The department may prescribe, in writing, alternate requirements that are equivalent to the regulations and standards stated herein relating to the protection of aquifer and prevention of ground water contamination.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:960 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended Department of Natural Resources, Office of Conservation, LR 37:911 (March 2011), LR 37:3531 (December 2011).

§515. Submission of Water Well Plugging and Abandonment Forms (DNR-GW-2)

A. The contractor who plugs an abandoned well or hole shall complete and submit to the department the original copy of the Water Well Plugging and Abandonment Form (DNR-GW-2) within 30 calendar days after the completion of the work. The owner's copy shall be sent to the owner immediately after completion of the work, and the contractor shall retain the contractor's copy for his files. For reporting purposes only, the department considers the work completed when the work is accepted by the owner or when the contractor has moved his equipment from the site; whichever comes first. Acceptance by the owner or removal of equipment from the site by the contractor does not imply, in any way, acceptance or approval by the state of Louisiana. The department, after inspection of the site and records (refer to §523), can require the owner and/or the contractor to do whatever additional work is necessary to properly plug and seal a hole or well in accordance with the standards stated herein. The expense for the additional work shall be borne by the owner and/or the contractor, as the case may be.

B. For the purpose of reporting the plugging of abandoned geotechnical boreholes, the drilling contractor shall certify annually at license renewal time, that all boreholes drilled by his firm have been plugged in accordance with requirements of §531.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:960 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:911 (March 2011).

§516. Water Well Plugging and Abandonment Form (DNR-GW-2)

A. The Water Well Plugging and Abandonment form (DNR-GW-2) and detailed instructions for properly completing the form are available by contacting department staff at 225-342-8244 or by accessing the department's

website at www.dnr.louisiana.gov/gwater. Form DNR-GW-2 consists of a set of three copies.

1. The first copy (marked DNR copy) is to be mailed by whoever plugs the well or hole within 30 calendar days after plugging operations have been completed to:

Louisiana Department of Natural Resources
Office of Conservation
P.O. Box 94275
Baton Rouge, LA 70804-9275

B. In regard to the other copies of the form, the following procedure shall be followed.

1. If the well is plugged by a water well contractor, he shall retain the second copy of the completed form for his files and shall give the third copy to the owner/lessee immediately upon completion of the plugging operation.

2. If the well is plugged by the owner/lessee (see §511), the second and third copies of the completed form shall be retained by the owner/lessee for his files.

C. The commissioner will consider and encourages the electronic submission of registration, data or reports required under this Section.

D. The following explanation will provide clarification of intent for selected items and uniformity of reporting.

1. Owner Information. List the name of the legal owner of the property on which the well is located or the person or company holding a long-term lease on the property. If the owner or lessee is an individual, list first and last names and middle initial of individual.

a. Address. The address should be that of the owner. If the well is owned by an industry, the local address of the firm is preferred in order that additional data on the well may be easily obtained by the state or a regional water district or commission.

b. Owner's Well Number. Many cities, institutions, industrial plants, and large farms have their own systems of designating or identifying wells by numbers and/or name. This information is useful when locating the well and should be entered on the form.

2. Well Location. List the parish where the well is located, including the nearest town, city, etc., and give directions to the well site. The location of the well should be described in detail and as accurately as possible so that the well can be easily located by the department's field inspector. Please include a detailed map or sketch on the back of the original form showing the location of the well with reference to roads, railroads, building, etc. Use an (X) to indicate location of the well. Show location of nearest existing well(s), if any nearby, by making (O's) and approximate distance between wells. Determine the well's Global Positioning System (GPS) location and record the GPS longitude and latitude coordinates onto the form. For rig-supply wells, attach a "registered" permit plat (see §105.I) and for monitoring wells, complete spaces provided for the section, township and range (see §105.J).

3. Well Information. Required data are available from water well contractor's or engineer's report.

4. Plugging Procedure. Describe, in detail, the method and materials used to plug the well or hole. Give amount of cement, bentonite, and water used. Give any other useful information, such as name of cementing company used, if any, sounded depth, any obstructions or problems encountered during plugging, size and length of casing removed or left in hole, etc. If necessary, attach another sheet or use reverse side of form to give details.

5. Remarks. Use this space to present any other pertinent information. For example, if the present owner is different than the person who had the well drilled, give the name of the initial owner.

E. Certification that the work was performed in accordance with applicable rules and regulations must be signed and dated or the form will be returned for proper completion.

F. If there are any questions, please call or write to:

Louisiana Department of Natural Resources
Office of Conservation
P.O. Box 94275
Baton Rouge, LA 70804-9275
Phone: (225) 342-5562

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-3097.

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§517. Responsibility of the Owner

A. Unless specified otherwise in the rules and regulations stated herein, it shall be the responsibility of the owner to have an abandoned water well properly plugged and sealed in accordance with methods and standards stated in §531 within 90 calendar days after abandonment. If the owner fails to plug an abandoned well within the 90-day time period, enforcement procedures, as outlined in §519, will be initiated by the department.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:961 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005).

§519. Failure of the Owner to Plug an Abandoned Water Well

A. When the owner fails to plug an abandoned water well within the time period specified in §517, the department, upon receiving information on the existence of such well, will order the owner to plug the well within 30 calendar days after receipt of the order.

B. If the owner fails to comply within the 30-day time period or does not offer, in writing, an acceptable alternative

time interval for plugging the well, the owner will be considered in violation of R.S. 38:3094, which permits a civil penalty of not more than \$1,000 a day for each day of violation and for each act of violation.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:961 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005).

§521. Responsibilities of the Contractor

A. The contractor who agrees to plug an abandoned well or hole for the owner shall be fully responsible for plugging the well or hole in accordance with the rules, regulations and standards stated herein. He is also responsible for completing and submitting a plugging and abandonment form (DNR-GW-2) to the department within 30 calendar days after completion of the plugging operation. The contractor shall also be responsible for informing the owner of the necessity of plugging and sealing any other water well or hole on the property that may have been previously abandoned or which may be abandoned in the future.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:961 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:912 (March 2011).

§523. Site Inspection by the Department Representatives

A. The department may order, at any time, that the site of an abandoned water well or hole be inspected by department representatives to determine whether the work has been satisfactorily completed in accordance with the standards stated herein and as stated on the Water Well Plugging and Abandonment Form (DNR-GW-2). The owner and/or the contractor shall make all records available to the representatives of the department and the owner shall allow representatives to enter the property and visit the site(s).

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:961 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:912 (March 2011)..

§525. Availability of Water Well Data

A. The drilling and construction records for a water well or test hole may be obtained from the owner, from the water well contractor, and/or from the following:

Louisiana Department of Natural Resources
Office of Conservation
P.O. Box 94275

Baton Rouge, LA 70804-9275
Phone: (225) 342-8244

B. Reports and/or information on hydrology, geology, the occurrence of saline water-bearing and fresh water-bearing sands and quality of water may be obtained from the above-named governmental agencies and/or the following:

Louisiana Geological Survey
3097 Energy, Coastal and Environmental Bldg.
Louisiana State University
Baton Rouge, LA 70803

C. Information on monitoring wells may be obtained from the owner, the water well contractor, the engineer, the Department of Natural Resources, as listed above, and/or from the following agency:

Department of Environmental Quality
Galvez Bldg.
602 North Fifth Street
Baton Rouge, LA 70802

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:961 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:912 (March 2011), LR 37:3531 (December 2011).

§527. Regulations for Determining Status of Wells or Holes and for Determining Plugging Responsibility

A. Following are the regulations for determining the status of a drilled, bored, cored, augered or driven water well or hole and for determining the party responsible for plugging abandoned wells and holes.

1. Active Status. A well is considered to be active if it is an operating well used to supply water.

2. Standby Status. A well is considered to be standby if it is used in emergencies or occasionally used to supply water.

3. Inactive Status. A well is considered to be inactive if it is not presently operating but is maintained in such a way that it can be put back in operation, with a minimum of effort, to supply water. Before a well can be put in inactive status, the owner shall present evidence to the department as to the condition of the well and as to his intentions to use the well in the future, as well as obtaining the department's written approval. As evidence of intentions, the owner shall be responsible for properly maintaining the well in such a way that:

a. the well and the annular space between the hole and casing shall have no defects that will permit the seepage of surface water into the well;

b. the well is clearly marked and is not a safety hazard;

c. the well is adequately capped in such a manner as to prevent easy entry by other than the owner;

d. the area surrounding the well is kept clear of waste and debris;

e. if the pump and/or motor have been removed for repair, replacement, etc., the well is adequately capped to prevent injury to people and to prevent the entrance of any contaminant or other objectionable material;

f. the well is not used for disposal or injection of trash, garbage, sewage, waste water and/or storm runoff; and

g. the well is easily accessible for routine maintenance and periodic inspection.

4. **Abandoned Wells.** A well is considered to be abandoned if its use has been permanently discontinued; its pumping equipment has been permanently removed; the well is in such a state of disrepair that it cannot be used to supply water and/or has the potential for transmitting surface contaminants into an aquifer; the well poses potential health or safety hazards, or the well is in such a condition that cannot be placed in the active, standby or inactive status. The owner of an abandoned well shall be responsible for plugging such a well in accordance with methods and standards stated in §531, within 90 calendar days from the initial date of abandonment. If the owner fails to plug an abandoned well within the 90-day time period, enforcement procedures, as outlined in §519, will be initiated by the department.

5. Abandoned Rig-Supply Water Wells

a. A water well drilled at an oil or gas drilling site to supply water for drilling activities shall be considered an abandoned well immediately after the termination of the oil or gas drilling-operations and removal of the rig from the site. The company in charge of the drilling of the oil or gas well (lessee) shall be responsible for plugging the abandoned water well, in accordance with §531, within 30 calendar days after the termination of oil or gas drilling operations and removal of the rig from the site.

b. If the ownership of the water well is to be conveyed to the landowner in lieu of plugging and abandoning the well, the well must conform to the requirements for active or inactive status. The ownership transfer must be made through a legal document advising the landowner of his responsibilities and obligations to properly maintain the well, including the proper plugging of the well when it is abandoned and no longer needed for water production activities. The company (lessee) shall provide the department with a copy of the transfer document within 30 calendar days after the transfer of the ownership. Upon receiving the document, the department will send a letter to the new owner requesting well use information and advising him/her of the appropriate regulations. The owner is required to respond within 30 calendar days, stating intended use and requesting an appropriate status, as outlined in §527.

6. **Observation Wells.** A well is considered to be an observation well if it is used by the owner, by governmental agencies, or by an appropriate engineering or research organization to obtain information on the water resources of an area. Observation wells shall be covered with an

appropriate cap or cover to prevent unauthorized use or entry and to prevent entry of contaminants. It shall be the responsibility of the owner, organization or agency making the observations to prevent entry of any foreign materials or water into observation wells and to keep the surrounding area clear of waste, water, debris and other materials.

7. A well shall not be used for any injection or recharge studies until a permit is obtained in accordance with existing orders rules and regulations of the Department of Natural Resources, Office of Conservation.

8. An inactive water well may be used as an observation well; however, when it is no longer needed for observation purposes and the owner does not intend to convert it to an active status, the well shall be considered abandoned. The owner shall be responsible for plugging the abandoned well in accordance with Methods and Standards, stated in §531, within 90 calendar days after abandonment, unless agreement with the agency or organization which used the well for observation clearly delegates the plugging responsibility to the agency or organization.

9. A well constructed solely for observation purposes by an owner, a governmental agency, or an engineering or research organization, must be converted to an active, inactive or standby status when no longer needed for observation purposes, otherwise it shall be considered abandoned. It shall be the responsibility of the owner, agency or organization who installed the well to plug the abandoned well in accordance with methods and standards, stated in §531, within 90 calendar days after abandonment.

10. Abandoned Pilot Holes and Test Holes

a. A pilot hole, drilled with the intent to install casing and produce water, shall be considered an abandoned hole immediately after the termination of the drilling operations if the hole is not cased and/or a well is not developed or constructed. It shall be the water-well contractor's responsibility to plug the abandoned hole, in accordance with §531, within 30 calendar days after the termination of the drilling operations.

b. A test hole, drilled to obtain geologic, hydrologic and water-quality data shall be considered an abandoned hole immediately after the completion of all testing operations. The agency or the contractor in charge of the exploratory work is responsible for plugging the abandoned hole in accordance with §531, within 30 calendar days after the termination of drilling operations.

11. **Abandoned Geotechnical Boreholes.** A hole, drilled, bored, cored or augered to obtain soil samples to be analyzed for chemical and/or physical properties shall be considered abandoned immediately after the completion of the drilling and sampling operations. It shall be the drilling contractor's responsibility to plug the abandoned hole in accordance with methods and standards stated in §531 within 30 calendar days after the termination of drilling and sampling operations.

12. **Abandoned Heat Pump Holes (Closed Loop System).** A hole drilled to install piping for an earth-coupled

water source heat system shall be considered an abandoned hole if the piping is not installed and/or the hole is not plugged by the drilling contractor in accordance with methods and standards, stated in §531, within 30 calendar days after completion of drilling operations. It shall be the drilling contractor's responsibility to plug the abandoned hole in accordance with methods and standards, stated in §531, within 30 calendar days after the hole is considered abandoned.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:961 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005).

§529. Plugging and Filler Materials

A. Plugging Material

1. It is recognized that no material is completely impervious; however, experience and tests have shown that cement-bentonite slurry has a low permeability, good sealing properties, and low shrinkage factor, so as to be preferred for use when plugging an abandoned water well or hole. Cement-bentonite slurry is a mixture of cement, bentonite, and water, consisting of not more than 8 percent bentonite by dry weight of the cement and a maximum of 10 gallons of water per sack (94 pounds) of cement. Additives, in the approved and proper ratio, may be added to the slurry, if required. If the slurry is to be prepared in the field it is recommended that the bentonite be added after cement and water are thoroughly mixed.

2. Neat cement, which is a mixture of cement and water, consisting of not more than 5 gallons of water per sack (94 pounds) of cement, may be used as plugging material in lieu of cement-bentonite slurry.

3. When permitted by the methods and standards stated in §531, heavy drilling mud or bentonite slurry, weighing not less than 9 pounds per gallon, may be used as plugging material. The plugging material shall be free of foreign and organic additives.

B. Filler Material. When permitted by the methods and standards stated in §531, heavy drilling mud or bentonite slurry, weighing not less than 9 pounds per gallon, coarse ground bentonite or clean sand may be used as filler material. The filler material shall be free of foreign and organic additives.

C. Calculations to Verify Adequacy of Plugging Materials. To assure an abandoned water well or hole is plugged and sealed properly and that there has been no "jamming" or "bridging" of the material, verification calculations and measurements shall be made by the contractor to determine whether the volume of the material placed in the well or hole at least equals the volume of the casing or hole plugged and/or filled. When bridge plugs are used, sufficient time shall be allowed for the material to set. Any measurements and calculations made in setting and verifying the location of the plug shall be made available to

the department upon request. The department shall be solely responsible for determining whether a well or hole is satisfactorily plugged or sealed.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:962 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005).

§531. Methods and Standards for Plugging Abandoned Water Wells and Holes

A. The following methods and standards shall be used for the plugging of abandoned water wells and holes. If there is a need for variance from these regulations and/or clarification is required, departmental approval shall be obtained in writing, before the plugging operation is begun. For variance requests, refer to §513.

B. Methods and Standards for Plugging Abandoned Water Wells. The following methods and standards shall apply to all abandoned water wells, regardless of use or type.

C. Removal of Obstructions from the Well. Before the plugging operation is begun, the drilling and construction records for the well should be obtained and studied (see §525). An investigation of the well shall be made to determine if there is any obstruction in the well that would interfere with the plugging operation. Any obstruction in the well shall be removed, using an acceptable method, before initiating the plugging operation.

D. Cutting off the Top of the Casing. In areas subject to subsidence and/or farming, the top of the casing shall be cut off a minimum of 3 feet below the surface of the ground before plugging operation begins. After filling the well with cement-bentonite slurry, the excavation above the top of the cement plug shall be filled with compacted soil to minimize future hazards to farming equipment, etc. In other areas, the top of the casing shall be cut off at or below the ground surface. Under no circumstances shall the top of the casing protrude above the surface of ground.

E. Plugging Material for the Screen. The screen or the area opposite the production aquifer (as in open hole construction) may be filled with filler materials specified in §529.B in lieu of cement-bentonite slurry.

F. Plugging Method. The entire well shall be plugged with cement-bentonite slurry from bottom of the well up to the ground surface using the pump-down method, preferably in one continuous operation. Placement of plugging material by pouring or dropping through the water shall not be permitted.

G. Annular Space. If the annular space of the abandoned well is not already sealed, the plugging material shall be brought up to the surface and allowed to spill over the top of the casing and into the annulus, sealing the annular space between the casing and the borehole. If the annular space is already sealed, the plugging material shall be brought up to the ground surface, unless specified otherwise.

H. Temporary Shut Down. When plugging of an abandoned water well or hole is temporarily suspended, such as overnight shut down or awaiting material, the well or hole shall be covered and the immediate area conspicuously marked to protect and warn the public. The cover shall be sufficiently strong and anchored to prevent easy or unintentional entry. The well or hole shall be sealed to prevent the seepage of surface water and foreign material into the well or hole.

I. Areas of Confirmed Contamination. In areas of confirmed ground water or soil contamination, the entire well shall be plugged with cement-bentonite slurry. The annular space of the well, if not already sealed, shall be sealed by perforating or ripping the casing and forcing cement-bentonite slurry under pressure into the annular space and surrounding formation to prevent the entry of contaminated fluids into an aquifer and to prevent the movement of water from one aquifer to another.

J. Areas of Potential Contamination. In areas of potential ground water or soil contamination, the entire well shall be plugged with cement-bentonite slurry. It is recommended that the annular space of the well, if not already sealed, be perforated or ripped and cement-bentonite slurry forced under pressure into the annular space and surrounding formation to safeguard against any possible entry of contaminated fluids into an aquifer and to prevent the movement of water from one aquifer to another.

K. Plugging of Abandoned Water Well from Which Some or All of the Casing Has Been Removed

1. If the casing remaining is in the upper part of the well, the well shall be sounded to determine the amount, if any, of "cave in." The part of the hole filled with "cave in" material shall be reamed or drilled out of the original depth of the well and then the entire hole shall be plugged with cement-bentonite slurry from the bottom, up to the ground surface, using the pump-down method.

2. If the casing (including the screen) remaining is in the lower part of the well, the well and hole shall be completely filled with cement-bentonite slurry from the bottom up to the ground surface, using the pump-down method.

3. If all the casing and screen is removed, the hole for the entire original depth of the well shall be plugged with cement-bentonite slurry from the bottom, up to the ground surface, using the pumpdown method.

L. Plugging of Abandoned Monitoring Wells. The entire well shall be plugged with cement-bentonite slurry from bottom of the well, up to the ground surface, using the pump-down method.

NOTE: Plugging of abandoned monitoring wells associated with facilities regulated by the Department of Environmental Quality (DEQ) require approval from DEQ prior to actual plugging.

M. Plugging of Abandoned Dug or Augered Wells. Domestic dug or augered wells shall be plugged from bottom of the well up to the ground surface with cement-bentonite slurry or with local fill material such as silt, sand,

clay, native soil, or a mixture thereof. If local fill material is used, it should be allowed to settle, and then permanently capped with cement or compacted clay.

N. Plugging of Abandoned Holes. If the hole penetrates an aquifer containing saline water, the entire hole shall be plugged with cement-bentonite slurry from bottom of the hole, up to the ground surface using the pump-down method; otherwise, the hole shall be plugged in accordance with §531.O.-R.2

O. Plugging of Abandoned Pilot Holes

1. The entire hole shall be plugged with cement-bentonite slurry from bottom of the hole, up to the ground surface, using the pumpdown method.

NOTE: If an aquifer (see §113.A for definitions) is not penetrated, the hole shall be plugged with either cement-bentonite slurry or bentonite slurry from bottom of the hole, up to a depth of 25 feet below the ground surface and then the upper 25 feet of the hole shall be plugged with cement-bentonite slurry, using the pump-down method.

P. Plugging of Abandoned Test Holes. An abandoned test hole shall be plugged with cement-bentonite slurry from bottom of the hole, up to the ground surface, using the pump-down method. If the casing cannot be removed, in addition to plugging the entire casing with cement-bentonite slurry, the annular space must also be cemented as per requirements of §527 or as approved by the department.

Q. Plugging of Abandoned Geotechnical Boreholes

1. The entire hole shall be plugged with cement-bentonite slurry from bottom of the hole, up to the ground surface, using the pumpdown method; or

2. The hole shall be plugged with bentonite slurry from bottom of the hole, up to a depth of 25 feet below the ground surface and then the upper 25 feet of the hole shall be plugged with cement-bentonite slurry, using the pump-down method.

3. For boreholes of 25 feet or less, drill cuttings from the original hole may be used to plug the hole in lieu of cement-bentonite slurry, provided that an aquifer is not penetrated and provided that a concrete cylinder is pushed into the hole to form a permanent seal at the ground surface.

NOTE: Plugging of geotechnical borehole associated with facilities regulated by the Department of Environmental Quality (DEQ) require approval from that department prior to actual plugging.

R. Plugging of Heat Pump Holes (Closed Loop System)

1. The entire hole shall be plugged with cement-bentonite slurry from bottom of the hole, up to the bottom of the horizontal trench, using the pump-down method; or

2. The hole shall be plugged with bentonite slurry from bottom of the hole, up to a depth of 25 feet below the bottom of the horizontal trench and then the upper 25 feet of the hole shall be plugged with cement-bentonite slurry, using the pump-down method.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:963 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:913 (March 2011).

§533. Enforcement Actions

A. Provisions addressing enforcement of this Chapter appear in R.S. 38:3097.3, as follows:

1. Whoever knowingly and willingly violates a provision of this Chapter, or a rule, regulation or order of the director or a board hereunder, shall be subject to a civil penalty of not more than \$1,000 a day for each day of violation and for each act of violation if a penalty for the violation is not otherwise provided in this Chapter.

a. The place of suit to recover this penalty shall be selected by the director or board, as may be appropriate, in the district court of the parish in which any one of the defendants resides, or in the district court of the parish where the violation took place.

b. Suit shall be at the discretion of the director or board as may be appropriate and shall be instituted and conducted in his or its name by the attorney general or by the district attorney of the district under the direction of the attorney general.

2. Whoever knowingly and willfully aids or abets a person in the violation of a provision of this Chapter, or in any rule, regulation or order made hereunder shall be subject to the same penalties provided herein for the principal violator.

B. Falsification of Documents. Falsification of documents to evade regulations, as well as penalties for said falsifications, appears in R.S. 38:3095 as follows.

1. No person shall, for the purpose of evading this Chapter or any rule, regulation or order made thereunder:

a. make, or cause to be made, any false entry or statement of fact in any report required to be made by this Chapter, or by any rule, regulation or order made hereunder; or

b. make, or cause to be made, any false entry in an account, record or memorandum kept by any person in connection with the provisions of this Chapter or of any rule, regulations or order made thereunder; or

c. remove out of the jurisdiction of the state or destroy or mutilate, alter, or by any other means, falsify any book, record, or of the paper pertaining to the matters regulated by this Chapter, or by any rule, regulation or order made thereunder.

2. Whoever violates this Subsection shall be fined not more than \$5,000 or imprisoned not more than six months or both.

3. The penalty provision for falsification of documents required under the provisions of this Chapter are

therefore criminal in nature and will be enforced through the district attorney having jurisdiction where said violation occurs. It should also be noted that utilization of the United States Mail in the falsification of documents constitutes a violation of Title 18 of the United States Code (Mail Fraud), and such violations will be referred to the appropriate United States attorney.

C. Appeals. An alleged violator may appeal any order of the department by requesting a hearing. The hearing request must be made to the department, in writing within 30 calendar days of the original order and must be sent by "Certified Mail/Return Receipt Requested". After receiving the request, the department will arrange a hearing to determine what other remedial action will serve to effect compliance with the rules and regulations.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2091-R.S. 38:3097.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 1:249 (May 1975), amended LR 11:964 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:3531 (December 2011).

Chapter 7. Installing Control Devices on Free Flowing Water Wells

§701. Authorization

A. As announced in the October 1985 issue of the *Louisiana Register*, the rules and regulations, stated herein, were prepared by the Louisiana Department of Transportation and Development, Office of Public Works, in accordance with R.S. 38:3094(7)(A). Effective January 1, 2010, in accordance with Act 437 of 2009, The Department of Natural Resources, Office of Conservation, hereafter referred to as "department," is responsible for registering water wells and holes in Louisiana.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3094.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR 11:964 (October 1985), repromulgated by the Department of Transportation and Development, Office of Public Works, LR 31:942 (April 2005), amended by the Department of Natural Resources, Office of Conservation, LR 37:913 (March 2011), LR 37:3531 (December 2011).

§703. Purpose

A. The purpose of the rules and regulations, stated herein, is to conserve the ground water resources of the state by requiring that the owner install control devices on free flowing water wells (for glossary of terms, refer to §113.A of this Chapter) the owner shall install a flow control device on each free flowing water well in accordance with the rules and regulations stated in this Section.

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:3094.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Office of Public Works, LR