



**BOBBY JINDAL**  
GOVERNOR

**State of Louisiana**  
**DEPARTMENT OF NATURAL RESOURCES**  
**OFFICE OF CONSERVATION**

**SCOTT A. ANGELLE**  
SECRETARY

**JAMES H. WELSH**  
COMMISSIONER OF CONSERVATION

June 15, 2012

Site Manager  
Entergy Corporation  
P O Box 2431  
Baton Rouge, LA 70821

Re: Conservation Order No. ENV 2012-GW011  
Water Well Owner Groundwater Withdrawal Reporting Requirements

Dear Site Manager:

This letter is intended to provide guidance and assist you with complying with recent reporting requirements for applicable groundwater withdrawals from wells registered as owned by Entergy Corporation. In summary, on May 23, 2012, the Office of Conservation (Conservation) issued Order No. ENV 2012-GW011 (Order) requiring Entergy Corporation to provide current and projected short and long-term groundwater withdrawal reports to Conservation on or before September 28, 2012. The Order requires companies to submit "a written report of its company's current annual groundwater withdrawal volume per water well, projected near-term (within 5 years) annual groundwater withdrawal volume per existing and new well(s), projected long-term (5 to 30 years) annual groundwater withdrawal volume per existing and new well(s) and current, near-term and long-term plans for reducing groundwater withdrawal or preventing further migration of saltwater toward its wells." For your convenience, enclosed is a form that if properly completed and submitted prior to September 28, 2012 will satisfy the reporting requirements of the Order. Please note that all requirements of Conservation Order No. ENV 2012-GW011 are enforceable under the provisions of La. R.S. 38:3097.3.F. It is therefore important that Entergy Corporation take all necessary steps to ensure that the requirements set forth in the Order are satisfactorily and timely addressed to prevent issuance of any enforcement actions by this office which may include an assessment of civil penalty.

Conservation staff looks forward to assisting Entergy Corporation with any questions regarding the reporting requirements or guidance provided herewith. Please contact Brandon Breaux at 225-342-5718 at your earliest convenience for assistance.

Yours very truly,

James H. Welsh

*JH* Commissioner of Conservation

**Environmental Division**

Post Office Box 94275 • Baton Rouge, Louisiana 70804-9275 • 617 North 3rd Street • 9th Floor • Baton Rouge, Louisiana 70802  
Phone (225) 342-8244 • Fax (225) 242-3505 • [www.dnr.state.la.us/conservation](http://www.dnr.state.la.us/conservation)

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Entergy

Louisiana Station

# Fax

To: Brandon Breau x From: Robert M. Robinson

Fax: 225-242-3505 Fax: 225-354-4052

Phone: 225-342-5718 Phone: 225-354-4069

Re: ORDER ENV 2012-6W011 Pages: 15 including this page

Date: SEPTEMBER 27, 2012

Urgent     For Review     Please Comment     Please Reply     Please Recycle

● **Comments:**

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Office of Conservation

SEP 27 2012

Environmental Division



September 27, 2012

James H. Welsh  
Commissioner of Conservation  
La. Dept. of Natural Resources  
P.O. Box 94275  
Baton Rouge, LA. 70804

Re: Entergy Louisiana Station Response to Conservation Order No. ENV 2012-  
GW011 Water Well Owner Groundwater Withdrawal Reporting

Dear Mr. Welsh:

Entergy and its employees at Louisiana Station are very aware and supportive of the need to monitor and maintain aquifer sustainability in the Baton Rouge Capital Area, and also are aware of the threat of saltwater intrusion.

Entergy Gulf States Louisiana, L.L.C. (EGSL) has been a member of and supported the Capital Area Groundwater Conservation Commission for many years in its efforts to monitor and sustain the aquifers. EGSL has worked closely with the USGS and other members of the Commission including our industrial customer the ExxonMobil Baton Rouge Complex, which currently leases our Plant 1 equipment including the 2000' wells, with long term lease options. EGSL will continue to work closely with our customer and others to identify technical, environmentally feasible, and practical methods to reduce usage from the targeted sands while providing a quality product and safe operation.

Please find enclosed:

1. Louisiana Station 2011 and YTD 2012 groundwater withdrawal per well
2. Projected future withdrawal from 2000' and 1200' sands.  
Note: Projected in this manner in order to take advantage of different combinations of wells in the same sands, allowing a more efficient use of well water at different demands on our Water Treatment Plant. Close proximity of wells on plant site would likely not cause an appreciable difference in effect on the aquifer.
3. Strategies for possible well water reduction from critical sands.

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**A. Well Registration Information**

State Registration Water Well No.: 033-1227

1. Registered Aquifer: 2000" Sand Southern Hill
2. Registered Well Owner: Entergy Corporation
3. Registered Owner Address: P O Box 2431, Baton Rouge, La. 70821
4. Registered Well Locations: Latitude 30 29 27, Longitude 91 11 19

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

thousand gallons from 1/1/ 12 through

**A. Well Registration Information**State Registration Water Well No.: 033-1317

1. Registered Aquifer: 2000" Sand Southern Hill
2. Registered Well Owner: Entergy Corporation
3. Registered Owner Address: P O Box 2431, Baton Rouge, La. 70821
4. Registered Well Locations: Latitude 30 29 26, Longitude 91 11 22

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

 thousand gallons from 1/1/ 12 through 

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**A. Well Registration Information**

State Registration Water Well No.: 033-1313

- 1. Registered Aquifer: 2000" Sand Southern Hill
- 2. Registered Well Owner: Entergy Corporation
- 3. Registered Owner Address: P O Box 2431, Baton Rouge, La. 70821
- 4. Registered Well Locations: Latitude 30 29 26, Longitude 91 11 22  
*30 29 29.10 - 90 11 15.65 \**  
*From LADNR GIS WGS 84*

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

thousand gallons from 1/1/ 12 through

**A. Well Registration Information**

State Registration Water Well No.: 033-1309

- 1. Registered Aquifer: 2000" Sand Southern Hill
- 2. Registered Well Owner: Entergy Corporation
- 3. Registered Owner Address: P O Box 2431, Baton Rouge, La. 70821
- 4. Registered Well Locations: Latitude ~~30 29 31~~; Longitude ~~91 11 10~~  
30 29 35.25 - 91 11 17.80 \*  
From LADNR GIS WGS 84

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

thousand gallons from 1/1/ 12 through

**A. Well Registration Information**

State Registration Water Well No.: 033-1323

- 1. Registered Aquifer: 2000" Sand Southern Hill
- 2. Registered Well Owner: Entergy Corporation
- 3. Registered Owner Address: P O Box 2431, Baton Rouge, La. 70821
- 4. Registered Well Locations: Latitude 30 29 21, Longitude 91 11 19

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

thousand gallons from 1/1/12 through



**A. Well Registration Information**

State Registration Water Well No.: 033-788

- 1. Registered Aquifer: 2000' Sand Southern Hill
- 2. Registered Well Owner: Entergy Corporation
- 3. Registered Owner Address: P O Box 2431, Baton Rouge, La. 70821
- 4. Registered Well Locations: Latitude 30 29 25, Longitude 91 11 17

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

thousand gallons from 1/1/ 12 through

**A. Well Registration Information**

State Registration Water Well No.: 033-1151

1. Registered Aquifer: 2000" Sand Southern Hill
2. Registered Well Owner: Entergy Corporation
3. Registered Owner Address: P O Box 2431, Baton Rouge, La. 70821
4. Registered Well Locations: Latitude 30 29 30, Longitude 91 11 15

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

thousand gallons from 1/1/ 12 through

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**A. Well Registration Information**

State Registration Water Well No.: 033-522

1. Registered Aquifer: 1200" Sand Southern Hill
2. Registered Well Owner: Entergy Corporation
3. Registered Owner Address: P O Box 2431, Baton Rouge, La. 70821
4. Registered Well Locations: Latitude 30 29 24, Longitude 91 11 21

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

thousand gallons from 1/1/ 12 through

**A. Well Registration Information**

State Registration Water Well No.: 033-1304

- 1. Registered Aquifer: 1200" Sand Southern Hill
- 2. Registered Well Owner: Entergy Corporation
- 3. Registered Owner Address: P O Box 2431, Baton Rouge, La, 70821
- 4. Registered Well Locations: Latitude ~~30 29 36~~, Longitude ~~91 11 21~~  
3029 29.52 - 9111 23.69 \*  
From LADNR GIS WGS 84

**B. Current Use**

1. Provide the total volume in gallons of groundwater withdrawn from the well in

2011.  thousand gallons \*test run only

2. Provide the total volume in gallons of groundwater withdrawn from the well from January 1, 2012 up to the date of submitting the water use report for this well.

thousand gallons from 1/1/12 through   
\*test run only

**C. Current Use per day from 1200' and 2000' sands**

1. Average daily withdrawal (million gallons per day) in 2011.

0

Million gallons per day average – 1200'

7.66

Million gallons per day average – 2000'

2. Average daily withdrawal (million gallons per day) in 2012 through 8/31/12

0

Million gallons per day average – 1200'

7.54

Million gallons per day average – 2000'

**D. Near Term Use**

Provide the total annual volume in gallons of groundwater projected to be withdrawn within 5 years for each year starting from January 1, 2012 through December 31, 2016.

<b>PROJECTION MILLION GALLONS PER DAY</b>			
<b>Year</b>	<b>1200' Projection</b>	<b>2000' Projection</b>	<b>Comments</b>
<b>2012</b>	<b>0</b>	<b>7.6</b>	
<b>2013</b>	<b>0</b>	<b>7.6</b>	
<b>2014</b>	<b>0</b>	<b>7.6</b>	
<b>2015</b>	<b>0</b>	<b>7.6</b>	
<b>2016</b>	<b>0</b>	<b>7.6</b>	

Should well owner plans include the installation and use of any new well(s) from January 1, 2012 through December 31, 2016, provide details of the anticipated date of new well(s) installation and projected groundwater withdrawal on annual basis from each well completed through December 31, 2016.

**Current Plans would call for only replacement well should an existing well fail.**

**E. Long Term Use**

**Provide the total annual volume in gallons of groundwater projected to be withdrawn each year starting from January 1, 2017 through December 31, 2041.**

Under current contractual agreement Louisiana Station Plant 1 equipment, including 2000' deep wells, is leased to our customer. Future long term plans in this area would be dependent upon customer needs and projected investment which is not evident at this time.

**F. Groundwater Use Reduction Plans**

Provide details of any current, near-term or long-term plans to reduce withdrawal of groundwater from this well or other plans to prevent further migration of saltwater toward this well. If using this form, you may use the space below to provide Groundwater Use Reduction Plans and/or supplement with attached documentation.

- Update plant water balance and review annually to insure efficient use of well water within plant processes.
- Minimize leaks and use of well water for other than high pressure boiler feed water.
- Continue to work diligently with customer, other users, and CAGWCC to monitor issues surrounding ground water and identify, evaluate, and implement practical solutions.

**F. Certification**

I certify that I am authorized to provide information on this matter on behalf of my company and that the information provided herein is true and correct to the best of my knowledge.

September 27, 2012  
DATE

Robert M. Robinson  
NAME  
Robert M. Robinson  
SIGNATURE

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