

**SAN JACINTO RIVER AUTHORITY
JOINT WRAP QUESTIONNAIRE**

April 23, 2008

TO: Large Volume Water Users (LVWU) (more than 10 million gallons per year)

FROM: San Jacinto River Authority

RE: Planning Questionnaire

The SJRA needs the data requested in this Questionnaire in order to effectively plan for regional surface water needs and prepare a Joint Water Resources Assessment Plan (“WRAP”) to comply with the Lone Star Groundwater Conservation District Phase IIA regulations. The Questionnaire generally requests from each municipality, district, and private well owner the following information:

- 1) Contact information for persons knowledgeable about your entity.
- 2) Existing connections and water use
- 3) Water conservation and drought contingency
- 4) Water rates
- 5) Water quality
- 6) System interconnections
- 7) Existing water well information.
- 8) Existing storage tank information
- 9) Existing booster pump information
- 10) Projected demands
- 11) Existing wastewater facilities
- 12) Water distribution delivery points

In addition to the following questionnaire, **please provide information regarding the boundaries of your utility**. If information is available regarding planned annexations and/or future service area, please clearly distinguish the various areas and anticipated dates of service. In order of preference, please provide one of the following formats:

- an ESRI compatible coverage or shapefile, or
- an AutoCAD drawing file, and
- metes and bounds description.

Please complete and return the Questionnaire by May 23, 2008.

Thank you for your time, attention, and assistance in this matter.

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QUESTIONNAIRE INSTRUCTIONS

Format of Questionnaire

The questionnaire is divided into two parts. Sections 1 thru 5 contain questions related to your utility's points of contact, historic water use, conservation, water rates, and water quality. Sections 6 through 9 contain questions regarding interconnections, well(s), storage tanks, and booster pumps. Please complete Sections 6 thru 9 for each individual interconnect, well, storage tank, and pump station owned by the utility. Sections 10 through 12 contain questions regarding future water use, wastewater treatment plant information, and potential point(s)-of-delivery, respectively. Please copy pages of this form as needed.

Abbreviations used in the questionnaire include:

Mgal/yr	Millions of gallons per year	ft	Feet
Mgal/day	Millions of gallons per day	in	Inches
gal/mo	Gallons per month	Lat	Latitude (in degrees, minutes, seconds)
gal/day	Gallons per day	Long	Longitude (in degrees, minutes, seconds)
gal	Gallons	TCL	Top of Capacity Level (i.e., Overflow) of EST
gpm	Gallons per minute	BCL	Bottom of Capacity Level of EST

Contact Information for Questionnaire Clarification

If you have questions regarding the data requested, how to return the questionnaire/documents, or if you need clarification on any questions or instructions, please call Mr. Charles Shumate of Brown & Gay Engineers, Inc., at (281) 558-8700 or email him at cshumate@browngay.com.

How to Fill Out Questionnaire

- Please type (preferred) or print. If printed, please ensure that all information is legible.**
- Please respond to this questionnaire as completely as possible with the most recent data available. **Please do not leave any blanks in the forms.** Avoiding blanks reduces uncertainty about whether an item was overlooked, does not apply, etc. Please use the following if no data is provided:

NA	Not Applicable - Data requested does not apply to your current situation.
X	Not Available - Data is not collected by the entity.
- It is recommended that the most qualified / knowledgeable person complete these forms, drawing on personal knowledge and information from others (engineer, etc.) to complete all questions.
- Note that the use information requested in Section 2 should include effluent reuse, if any.
- Please complete all data for each individual interconnect, well, storage tank, and booster pump. Please copy pages of this form as needed.
- Please return** the completed questionnaire by e-mail (preferred), regular mail, or fax to Charles Shumate at cshumate@browngay.com, Brown & Gay Engineers, Inc., 10777 Westheimer, Houston, Texas 77042, or fax to 713-488-8250, **by May 23, 2008.**

**SAN JACINTO RIVER AUTHORITY
JOINT WRAP QUESTIONNAIRE**

Entity Name:		Date Completed:	
Fiscal Year begins (month/day) : _____		Fiscal Year ends (month/day) : _____	
SECTION 1 - Contact Information			
Name of Person Completing This Form:			Phone:
Title:			Email:
Operator:	Name:		Title:
	Address:		Fax:
	City:	St: Zip:	Phone (Business):
	Email:		Phone (Mobile):
Engineer:	Name:		Title:
	Address:		Fax:
	City:	St: Zip:	Phone (Business):
	Email:		Phone (Mobile):
Attorney:	Name:		Title:
	Address:		Fax:
	City:	St: Zip:	Phone (Business):
	Email:		Phone (Mobile):
Bookkeeper/ Utility Billings:	Name:		Title:
	Address:		Fax:
	City:	St: Zip:	Phone (Business):
	Email:		Phone (Mobile):
Other:	Name:		Title:
	Address:		Fax:
	City:	St: Zip:	Phone (Business):
	Email:		Phone (Mobile):
Other:	Name:		Title:
	Address:		Fax:
	City:	St: Zip:	Phone (Business):
	Email:		Phone (Mobile):
Other:	Name:		Title:
	Address:		Fax:
	City:	St: Zip:	Phone (Business):
	Email:		Phone (Mobile):

SECTION 2 – Historical Connections and Water Use Summary

Attach Complete Daily Water Usage Data

IN LVWU DATA	2003			2004			2005			2006			2007		
Annual Water Use:	Conn's *	Acres	Mgal/yr	Conn's*	Acres	Mgal/yr									
Single Family Residential															
Single Family Irrigation															
Multi-family Residential															
Multi-family Irrigation															
Other Irrigation Including Amenity Lakes POTABLE															
Other Irrigation Including Amenity Lakes RECLAIMED / REUSE															
Commercial															
Industrial															
Total															
Peak Month Water Use:	Month -														
	Conn's*	Acres	gal/mo												
Single Family Residential															
Single Family Irrigation															
Multi-family Residential															
Multi-family Irrigation															
Other Irrigation including Amenity Lakes POTABLE															

OUT OF LVWU DATA	2003			2004			2005			2006			2007		
Peak Day Water Use:	Month/Day -														
	Conn's	Acres	gal/day												
Total															
Peak Hour Water Use:	Month/Day -														
	Conn's	Acres	gal/hr												
Total															
* Number of connections.															

SECTION 3 - Water Conservation and Drought Contingency

Has the LVWU developed a Water Conservation Plan and received approval from TCEQ? Yes No

If yes, please attach a copy.

Has the LVWU developed a Drought Contingency Plan and received approval from TCEQ? Yes No

If yes, please attach a copy.

Has LVWU submitted Survey Data to TWDB for all years 1999 thru 2007? Yes No

Average Per Capita Usage for three year period 1999 thru 2001 included on Survey Data submitted to TWDB
_____ gpcd

Average Per Capita Usage for three year period 2003 thru 2005 included on Survey Data submitted to TWDB
_____ gpcd

Have Out of LVWU Users developed a Water Conservation Plan and received approval from TCEQ? Yes No

If yes, please attach a copy of each.

Have Out of LVWU Users developed a Drought Contingency Plan and received approval from TCEQ? Yes No

If yes, please attach a copy of each.

Have Out of LVWU Users submitted Survey Data to TWDB for all years 1999 thru 2007? Yes No

Average Per Capita Usage for three year period 1999 thru 2001 included on Survey Data submitted to TWDB for each
Out of LVWU User _____ gpcd

Average Per Capita Usage for three year period 2003 thru 2005 included on Survey Data submitted to TWDB for each
Out of LVWU User _____ gpcd

SECTION 4 - Water Rates

Attach Copy of Water Rate Structure for all Customer Classes

SECTION 5 - Water Quality

Attach Copy of Water Quality Sampling and Testing Results for 2005, 2006 and 2007

SECTION 6 - System Interconnections**Complete information for each system interconnection****System Interconnect** Entity Connected:Type of Interconnect: Emergency Normally Open Size of Interconnect in.One-way Flow, 1-way If 1-way flow, from which Metered Yes
or Two-way Flow 2-way entity to which entity? No

Location of Interconnect: Key Map grid:

Nearest Street Address:

Nearest Cross Street:

Coordinates: Lat.: Long.:

System Interconnect Entity Connected:Type of Interconnect: Emergency Normally Open Size of Interconnect in.One-way Flow, 1-way If 1-way flow, from which Metered Yes
or Two-way Flow 2-way entity to which entity? No

Location of Interconnect: Key Map grid:

Nearest Street Address:

Nearest Cross Street:

Coordinates: Lat.: Long.:

System Interconnect Entity Connected:Type of Interconnect: Emergency Normally Open Size of Interconnect in.One-way Flow, 1-way If 1-way flow, from which Metered Yes
or Two-way Flow 2-way entity to which entity? No

Location of Interconnect: Key Map grid:

Nearest Street Address:

Nearest Cross Street:

Coordinates: Lat.: Long.:

System Interconnect Entity Connected:Type of Interconnect: Emergency Normally Open Size of Interconnect in.One-way Flow, 1-way If 1-way flow, from which Metered Yes
or Two-way Flow 2-way entity to which entity? No

Location of Interconnect: Key Map grid:

Nearest Street Address:

Nearest Cross Street:

Coordinates: Lat.: Long.:

SECTION 7 - Existing Water Well Data

Complete a separate sheet for each groundwater well.

Well Address and Lone Star Groundwater Conservation District Permit Number:

Coordinates: Lat.: Long.:

Approximate date of well construction:

Does this well serve more than the LVWU? Yes No

If Yes, please list Out of LVWU Users served by this well:

Well diameter: in.

Well Discharge Pipe Size In.

Well Discharge Pipe Elevation ft., MSL

Current setting of well pump: ft. below ground surface

Current submergence of well pump: ft.

Well capacity: Design Flow: GPM. Test Flow: GPM

Well capacity: Design Head: ft. Test Head: Ft.

Motor Size: Hp

Attach Pump System Head Curve

Annual pumpage:	2003	2004	2005	2006	2007
	Mgal/yr	Mgal/yr	Mgal/yr	Mgal/yr	Mgal/yr

Has the well been expanded, improved or renovated? Yes No
 If so, what expansion, improvement or renovation and when were they completed?

Do you have any well expansion, improvement or renovation planned? Yes No
 If so, what expansions, improvements or renovations and when?

Do you think your well will need to be rehabilitated in: 2-5 years 5-10 years 10+ years

Do you think your well will need to be replaced in: 2-5 years 5-10 years 10+ years

Do you think your well will need to be abandoned in: 2-5 years 5-10 years 10+ years

Does this well produce sand? Yes No

Does this well produce gas? Yes No

Does this well have a known radon or radium problem? Yes No

Does this well have water supply or water quality problems? Yes No

Other information regarding performance, condition and remaining service life of well and equipment.

SECTION 8 - Existing Storage Tank Data			
Complete a separate sheet for each storage tank.			
Storage Tank Name or ID			Key Map grid:
Street Address:		Nearest Cross Street	
Coordinates: Lat.:		Long.:	
Type of Storage Tank?	<input type="checkbox"/> Ground	<input type="checkbox"/> Elevated	
Materials of Construction:			
Ground Storage Tanks			
Tank Capacity	Gal	Tank Diameter	feet
Tank Height above Natural Ground			feet
Natural Ground Elevation			Feet, MSL
Discharge Pipe Height above Natural Ground			feet
Elevated Storage Tanks			
Type and Shape			
Tank Capacity	Gallons	Tank Max Dia.	feet
TCL Elevation or Height above ground			ft. <input type="checkbox"/> El. <input type="checkbox"/> Ht.
BCL Elevation or Height above ground			ft. <input type="checkbox"/> El. <input type="checkbox"/> Ht.
Natural Ground Elevation			Feet, MSL

SECTION 9 - Existing Booster Pump Data					
Complete a separate sheet for each booster pump station.					
Pump station address:					
Approximate date of pump station construction:					
Does this well serve more than the LVWU? <input type="checkbox"/> Yes <input type="checkbox"/> No					
If Yes, please list Out of LVWU Users served by this well:					
Number and Type of pumps					
Discharge Pipe Size					In.
Discharge Pipe Elevation					ft., MSL
Pump capacity:	Design Flow:	GPM.	Test Flow:	GPM	
Pump capacity:	Design Head:	ft.	Test Head:	Ft.	
Motor Size:					Hp
Attach System Head Curve of Each Pump					
Annual pumpage:	2003	2004	2005	2006	2007
	Mgal/yr	Mgal/yr	Mgal/yr	Mgal/yr	Mgal/yr
Have the pumps been expanded, improved or renovated? <input type="checkbox"/> Yes <input type="checkbox"/> No					
If so, what expansion, improvement or renovation and when were they completed?					
Do you have any pump station expansion, improvement or renovation planned? <input type="checkbox"/> Yes <input type="checkbox"/> No					
If so, what expansions, improvements or renovations and when?					
Do you think your pumps will need to be rehabilitated in: <input type="checkbox"/> 2-5 years <input type="checkbox"/> 5-10 years <input type="checkbox"/> 10+ years					
Do you think your pumps will need to be replaced in: <input type="checkbox"/> 2-5 years <input type="checkbox"/> 5-10 years <input type="checkbox"/> 10+ years					
Do you think your pumps will need to be abandoned in: <input type="checkbox"/> 2-5 years <input type="checkbox"/> 5-10 years <input type="checkbox"/> 10+ years					
Other information regarding performance, condition and remaining service life of well and equipment.					

OUT OF LVWU DATA	2015			2017			2025			2035			2045		
Peak Day Water Use:	Month/Day -														
	Conn's	Acres	gal/day												
Total															
Peak Hour Water Use:	Month/Day -														
	Conn's	Acres	gal/hr												
Total															
* Number of connections.															

SECTION 11 - Wastewater Treatment Data

<p>Complete a separate sheet for each Wastewater Treatment Plant Name or ID. If your utility's WW is treated by another utility, indicate which utility.</p>	<p>Key Map grid:</p>
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<p>TPDES Permit No.</p>	<p>Permit Expiration Date</p>
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<p>Street Address:</p>	<p>Nearest Cross Street</p>
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<p>Discharge Pipe Coordinates:</p>	<p>Lat.:</p>	<p>Long.:</p>
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List all LVWUs served by this wastewater facility: _____

Please provide a service area map for the LVWUs listed above.

Capacity		2008	2010	2015	2017	2020	2025	2035	2045
Annual Average Daily Flow	MGD								
Monthly Max Flow	MGD								
Peak 2 Hour Flow	GPM								
Minimum Daily Flow	GPM								

Daily Average Permit Parameters

<p>BOD</p>	<p>TSS</p>
<p>NH3</p>	<p>Other</p>

Provide Copy of 2007 TCEQ Monthly Reports

Are you reusing treated wastewater effluent for nonpotable uses? Yes No

If Yes, please describe the applications for which you are using treated effluent.

If No, are you interested in wastewater effluent reuse for nonpotable uses?
 Yes No If Yes, what use and estimated quantity?

SECTION 12 – Water Distribution System Delivery Points

Provide data regarding potential points of delivery of surface water to existing distribution system.
