

Water Well Survey
Hercules Facility
USEPA RCRA 3013(a) Administrative Order
Hattiesburg, Mississippi

Well Survey: Project Overview

An initial evaluation of public records has already been performed as described above to identify public and private drinking water wells within the search radii specified in the Order. Site records indicated that historical well surveys including the 1993 B&V Waste Science and Technology Corporation report (B&V 1993) have also been performed and five municipal suppliers of potable water having wells within 4 miles of the Site existed at that time.

Initial response actions performed by Hercules shortly after receiving the AO included performing a public records search of registered wells that exist within a 4-mile radius of the Site. This initial well inventory identified a total of 806 well records within the search radius. The well inventory search radius was refined to show only the registered wells that exist on or within a 0.5 mile radius of the Site and 20 wells exist were identified within a 0.5-mile radius of the Site. However, there may be other wells within this radius that are not listed in public records. Further investigation into the existence of wells in the area will be performed and information collected from individual well owners will be recorded on the attached survey form.

Hercules will perform a neighborhood survey of residents and businesses located within a 0.5-mile radius of the Site by distributing a questionnaire to collect information on the presence and use of public and private wells. The survey will be further supported by performing a windshield survey of properties within the 0.5-mile radius to look for signs typically associated with private water well use (staining on structures and sidewalks, small enclosures or well houses, etc.). Well verification may be performed using a door-to-door follow-up survey to further support either a questionable windshield survey observation or a response from the questionnaire that requires clarification.

Hercules will pursue access to properties where wells exist within the 0.5-mile radius and where sampling is advised to conform to requirements of the Administrative Order. Access agreements will be presented to each well owner for review and approval. The sampling event will be scheduled with the well owner once the access agreement is signed.

The sampling team will perform a short interview with the owner during the sampling event to ascertain information regarding the well and water use at the property. Interviews will be conducted with the owners (or their current tenants) using the attached form to record specific information on the well and each form will be added to the data record for the investigation.

Hercules Facility Water Well Survey

This information is being collected for research purposes and to evaluate if testing of groundwater samples from an identified well is recommended. The results of this survey will be reported only in anonymous summary form, and individual surveys will not become part of public record. Thank you for taking time to help us compile this important information.

We realize you may not have the information available to answer all of these questions.

Please answer whatever questions you can.

If you have your well records, these will be helpful for answering the questions below

PLEASE CHECK (•) OR PROVIDE YOUR MOST APPROPRIATE RESPONSE
FOR EACH QUESTION YOU CAN ANSWER.

*A survey technician will collect information from you during a brief visit to gain information on the well constructed on your property. If you choose to complete this survey and mail it to the address provided at the close of the questionnaire, please return your survey using the enclosed pre-addressed, stamped envelope, **by October 21, 2011.***

Last Name: _____ **First Name:** _____
(optional) (optional)
Street Address _____

Town: _____ **Tax map & Parcel Number:** _____

Phone: _____ **e-mail address:** _____

Number of Wells at this Address _____ **Lot size** _____ acres
Number of Full-Time Residents _____

Please provide descriptive information (if known) for each well on your property, in the space provided below:

		Well #1	Well #2	Well #3
Use of Well <i>(check all that apply)</i>	Residential.....	•	•	•
	Commercial/Industrial.....	•	•	•
	Shared Water Supply.....	•	•	•
	Agricultural.....	•	•	•
	Irrigation (lawn & garden).....	•	•	•
	Irrigation (commercial/farm).....	•	•	•
	Out of service (Why?).....	•	•	•
Other (Describe) _____	•	•	•	
Type of Well Construction	Drilled in Bedrock.....	•	•	•
	Drilled in sand/Gravel.....	•	•	•
	Driven Point.....	•	•	•
	Dug.....	•	•	•
	Other (Describe) _____	•	•	•
Total Depth of Well (in feet)				
Depth to Bedrock (in feet)				
Length of Casing Installed in Well (in feet)				
Length of Screened Section or open hole in Well (in feet)				
Well Casing extends above ground (inches)				
Well Yield (in gallons per minute)				
Date the well was drilled (or approximate age of well in years)				
Date well was abandoned (if known)				
Abandonment method (if known)				

What type of residence occupies your property?

<ul style="list-style-type: none"> • Single family house • <2000 ft² • 2000 -4000 ft² • >4000 ft² 	<ul style="list-style-type: none"> • “Attached house” (shared walls between units) (e.g. Condominium or townhouse) 	<ul style="list-style-type: none"> • Mobile home • Apartment
---	---	--

What are the primary activities if the property is non-residential?

<ul style="list-style-type: none"> • Commercial (type of business): _____ • Industrial (type of business): _____ 	<ul style="list-style-type: none"> • Farm (describe) _____ • Nursery • Livestock • OTHER (describe) _____
--	---

WATER QUANTITY ISSUES:

How have you been affected by droughts during the past 10 years?

	Well #1	Well #2	Well #3
No problem	•	•	•
Had to limit household use.....	•	•	•
Not enough water to irrigate as much as I wanted.....	•	•	•
Couldn't irrigate at all.....	•	•	•
Well(s) went completely dry.....	•	•	•

Have you run out of water during the past five years for reasons other than mechanical pump failure?

Never.....	•	•	•
Once (state which year and month)_____	•	•	•
More than once (state how often)_____	•	•	•
Regularly.....	•	•	•

WATER QUALITY ISSUES:

Do you have a point-of –entry water treatment system in your home or business?

• Yes	• No
-------	------

Do you have any of the following color stains in your water fixtures (toilet bowl, etc.)

<ul style="list-style-type: none"> • Green • Rust/brown/orange 	<ul style="list-style-type: none"> • Black • Blue 	<ul style="list-style-type: none"> • Other (describe)
--	---	--

Are you aware of any seasonal variations in your water quality?

	Well #1	Well #2	Well #3
No seasonal variations	•	•	•
Yes, there have been seasonal variations.....	•	•	•

Have you tested your water for quality, and were any problems identified?

	Well #1	Well #2	Well #3
Never tested	•	•	•
Yes, I have tested it	•	•	•
<i>Describe any water quality problems identified:</i>			

Are you concerned about the following contaminants affecting your well/s?

• MTBE (gasoline)	• Bacteria	• Nitrates	• Fluoride
• Road salt	• Arsenic	• Radon	

Would you be willing to have your water tested at no cost to you (and be willing to share the results)?

• Yes	• No
-------	------

Please provide any other comments or questions that you may have regarding the well in the space provided on this form below.

Thank you! Your participation in this survey is greatly appreciated!