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1.0 CASGEM Online System (OS) Overview

Section Topics

- 1.1 [CASGEM Online System \(OS\) Overview](#)
- 1.2 [OS User Guide Layout](#)

1.1 CASGEM Online System (OS) Overview

The California Statewide Groundwater Elevation Monitoring (CASGEM) Online System (OS) was developed to help local agencies participate in the CASGEM program and comply with the provisions of Water Code Section 10927, et. seq. An overview of CASGEM is provided on the program web site: <http://www.water.ca.gov/groundwater/casgem/>. The CASGEM System was developed in three separate phases.

Phase 1 of the CASGEM System was released in December 2010, and allows a prospective Monitoring Entity (ME) to do the following:

- Create, edit, and submit ME notifications
- Create and manage user accounts
- Create and manage agency information
- Submit GIS Shape files of mapped monitoring areas and other required information

Phase 2 of the CASGEM System, released in May 2011, made the following additional functions available to a prospective ME:

- Submittal of Groundwater monitoring plans
- Submittal of proposed well construction and coordinate information
- Corrections to initial ME notifications or submittal of additional information requested by DWR
- Ability to view and query maps of groundwater basins, proposed monitoring areas, monitored wells, and other geographic information associated with the CASGEM Program
- Administrative capabilities for Administrator Roles: Organize Profile; Manage Users; Associate with other organizations / agencies

Phase 3 of the CASGEM System, released in November 2011, allows a designated ME to do the following:

- Submit Groundwater elevation measurement data
- View and update their CASGEM data, as needed
- Generate and Save/Print Reports of the data within the CASGEM System
- Use the GIS functionality

Additionally, Phase 3 of the CASGEM System introduced public access to the Statewide CASGEM System. The general public will have the ability to:

- View Notifications, Well Information, Groundwater Elevation Measurement Data and Reports
- Use the GIS functionality

1.2 User Guide Layout

This User Guide was created to provide general step-by-step instructions on how to use the CASGEM OS. If you know which section in the guide you are looking for, you may use the hyperlinked table of contents by holding down the “Ctrl” key while clicking on the line of the specific section to jump to a desired section.

The User Guide is organized into sections as follows:

- 1.0 CASGEM OS Overview
 - 1.1 [Overview](#)
 - 1.2 [User Guide Layout](#)
- 2.0 Administrative Users (ME or DWR)
 - 2.1 [Registering and Logging In](#)
 - 2.2 [Home Page and Available Tabs](#)
 - 2.3 [Notifications](#)
 - 2.4 [Managing Wells](#)
 - 2.5 [GIS Functionality](#)
 - 2.6 [Reports](#)
 - 2.7 [Administration](#)
 - 2.8 [My Profile](#)
 - 2.9 [Public View](#)
- 3.0 The CASGEM System for the General Public
 - 3.1 [Public User Registration and Log In](#)
 - 3.2 [Public User Homepage](#)
 - 3.3 [Notifications](#)
 - 3.4 [Well Information](#)
 - 3.5 [Groundwater Elevation Data](#)
 - 3.6 [Reports](#)
 - 3.7 [View Map](#)
 - 3.8 [My Profile](#)
- 4.0 Additional Information
 - 4.1 [Known Errors](#)
 - 4.2 [Further Help](#)



2.0 Administrative Users

Section Topics

- 2.1 [Registering and Logging In](#)
- 2.2 [Home Page and Available Tabs](#)
- 2.3 [Notifications](#)
- 2.4 [Managing Wells](#)
- 2.5 [GIS Functionality](#)
- 2.6 [Reports](#)
- 2.7 [Administration](#)
- 2.8 [My Profile](#)
- 2.9 [Public View](#)

2.1 Registering and Logging In

If you are already a registered user, you can log in using the Email and password combination you previously provided to the CASGEM system and may go straight to the log-in instructions. New users must first register with the CASGEM system. To register, click on the “Self Register” link on the log-in page.

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CASGEM Online System

Log In

Username (Email) *

Password *

Login

[Forgot password?](#)

[Self Register](#)

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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From the user registration page, fill in your name, email address and the CAPTCHA text. To submit, click “Register”.

Self Registration

User Registration

First Name *

Last Name *

Username (Email) *



[Generate New Image](#)

Type the code from the image

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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Upon successfully submitting your registration, you will be shown the following confirmation page.

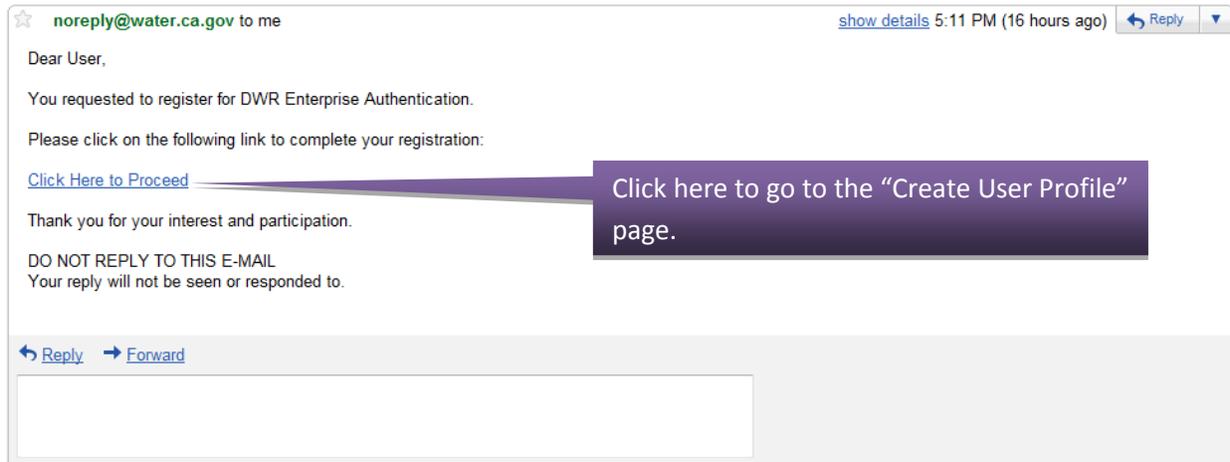
Self Registration

Thank you for registering. You will receive an email shortly containing a link to access the second registration page. Please follow the link in order to complete the registration process.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

The CASGEM system will send an authentication message to your email account, similar to that shown below. Click on the link (Click Here to Proceed) in the message and you will be taken to the CASGEM “Create User Profile” page.

California Department of Water Resources Online Registration Inbox | X



Enter the personal information associated with your account. Your email address is your user name. All fields bearing a red asterisk are required and you must enter at least one phone number and one mailing address. Review the password guidelines, type in a new password, and retype the password for verification. Also select and answer a secret question to recover you password in case it becomes forgotten. After you have completed the form, click on the "Save & Proceed" button. You may also clear the fields by clicking the "Discard Changes" button.

Create User Profile

User Information

Username (Email) * Title
First Name * Last Name *

Phone Details *at least one phone is required

+ Add New Phone			
Edit	Delete	Type	Phone Number
No records to display.			

Click "+" sign to add a new phone number.

Address Details *at least one address is required

+ Add New Address			
Edit	Delete	Type	Address
No records to display.			

Click "+" sign to add a new address.

Password * Verify Password *
[Password Guidelines](#)

Challenge Information

Secret Question * Secret Answer *

Click "Save & Proceed" to complete your user profile.

After saving your user profile, you will be directed to the login page.

2.1.1 How to Log In

The log-in page allows both new and returning users to sign into the OS. If you have previously created a User Profile, you should enter your email address and password in the identified fields and click the “Login” box to enter the system. If you have not created a user profile, [click here](#) to return to the Self-Registration instruction page of the User Guide. If you forgot your password, you can click on “Forgot password?” and answer the secret question to have your password emailed to you. If you are trying to recover a previously created ME profile that you did not create (e.g., your organization’s staff has turned over and did not delegate the login information to someone prior to leaving), you must contact DWR to reset your respective organization’s ME username and password.

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CASGEM Online System

Log In

Username (Email) *

Password *

Login

[Forgot password?](#)

[Self Register](#)

Back to Top | [Help](#) | [Comments or Suggestions](#)

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The first time you log into the CASGEM OS with your new user profile, you need to identify whether you are a Public user or a Monitoring Entity (ME) user, as shown in the following screen shot. If you are a Public user (i.e., you are not involved with collecting and entering groundwater data, or only need privileges to view and download data), select the “Public user” option and click the “Continue” button. You should also [click here](#) to proceed to the Public User section of this guide. Otherwise, ME users should select the Monitoring Entity user option and click on “Continue”.

NOTE: Selecting a User Type is an irreversible process. To be considered for DWR approval as a Monitoring Entity, you must select the “Monitoring Entity user” option to either: 1) register your organization for the first time as the primary ME, or 2) to associate you or your cooperating organization with an existing, approved ME. Even if you are an additional user from an existing primary ME organization or an associated organization, select the “Monitoring Entity user” option. If the “Public

user” option is selected, the system will assume you are a member of the general public and you will not have the same capabilities within the CASGEM System.

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CASGEM Online System

Sign Out

Select User Type

Please select your user type: Public user Monitoring Entity user **Important : This is an irreversible process**

Continue

If you are a Public user, select this option, click the “Continue” button, and proceed to the Public Users section of this guide.

If your organization is a Monitoring Entity or is associated with a Monitoring Entity, select this option and click the “Continue” button.

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Upon identifying yourself as a Monitoring Entity user, you will be asked for confirmation for security purposes.

Sign Out

Select User Type

Are you sure you want to register as a Monitoring Entity?

You will be required to provide documents proving your identity. Unauthorized access, unauthorized attempted access, or unauthorized use of any State computing system is a violation of Section 502 of the California Penal Code and/or applicable Federal Law, and may be subject to prosecution. Individuals using this computing system without authority, or in excess of their authority, are subject to having their activities on this system monitored and recorded by system personnel.
Actual content to be provided by CASGEM staff.

Yes, continue as Monitoring Entity

Cancel

Click this button for confirmation and to proceed to the organization registration step.

2.1.2 Registering Your Organization or User Association

If you are the first user for your organization, you must first register your organization's information. To register your organization for the first time, click on the "Register New Organization" button as indicated on the following screen shot.

The screenshot shows the CASGEM Online System interface. At the top left is the CASGEM logo. Below it is a 'Sign Out' button. The main header is 'Associate Organization'. Underneath is a 'Create And Associate Organization' section with a 'Register New Organization' button highlighted in red. A callout box points to this button with the text: 'If you are the first user from your organization, you must first register your organization's information by clicking this button.' Below this is a table of existing organizations.

Organization Name	Address	Phone	Email	Associate
Zone 7 Water Agency	10000 Livermore - 94551	(925) 434-3000	trooze@zonewater.com	Associate
Yuba County Water Agency	1220 F Street, Marysville - 95901	(530) 741-6278	smatyac@ycwa.com	Associate
Wheeler Ridge-Maricopa Water Storage District	12109 Highway 166, Bakersfield - 93313	(661) 858-2281	tsuggs@wrmsd.com	Associate
Westlands Water District	3130 N. Fresno Street P.O. Box 6056, Fresno - 93703	(559) 224-1523	dloyd@westlandswater.org	Associate

You will then be presented with the "Register Organization" page. At a minimum, complete all of the required information bearing a red asterisk and click on the "Register Organization" button as shown on the following screen shot. Prior to having full functionality with the CASGEM OS, you will have to either: 1) complete a notification to be a ME and be approved by DWR, or 2) be a cooperating organization with an approved ME by invitation from the ME, and then having that ME give you certain administrator rights. These processes are explained later in the User Guide. For now, you are simply associating your user profile with an organization.

Register Organization

Organization Details
*Indicates Required

Name of Organization *	Jane Doe Water Co	Abbreviation *	JDWC
Address Type *	Office	Address Line 2	Suite 719
Address Line 1 *	211 Watering Lane	State *	California
City Or Province *	Sacramento	Country *	United States of America
Zip Code *	95821-0001	Phone Number *	916-555-0000-____
Contact Type	Direct Line	Email Address *	info@jdw.com
Email Type *	Office Email		

Register Organization **Back**

Enter your organization's information and click this button to register your organization for the first time.

If you are the first person to associate yourself with a particular organization you will automatically be assigned as an administrator for that organization, which will enable you to manage or delete other users who associate with your organization that you just registered. The CASGEM system will prompt you to confirm whether this is what you intend. If so, click "Confirm"; if not, click "Cancel".

Confirm

Being the first user of this organization, you must assume the role of an Administrator to proceed. Are you sure?

Confirm **Cancel**

Confirm that you are the first user registering your organization.

If your organization has already been registered by a previous user, you can simply associate yourself with your organization by searching the organizations list and clicking the “Associate” link next to your organization’s name. You can also filter the list as indicated to more readily find your organization’s name.



Sign Out

Associate Organization

Create And Associate Organization

Register New Organization

Associate Organization

Organization Name	Address	Phone Number	Email	Associate
<input type="text"/>				
Zone 7 Water Agency	100 North Canyons Parkway, Fresno - 94551	(925) 454-5000	trooze@zone7water.com	Associate
Yuba County Water Agency				Associate
Wheeler Ridge-Maricopa Water Storage	Bakersfield - 93313			Associate
Westlands Water District	3130 N. Fresno Street P.O. Box 6056, Fresno - 93703	(559) 224-1523	dloyd@westlandswater.org	Associate
Western Municipal Water District	14205 Meridian Parkway, Riverside - 92518	(951) 571-7290	fmanghi@wmwd.com	Associate
Western Canal Water District	PO Box 190, Richvale - 95974	(530) 342-5083	tedtrim@aol.com	Associate
Watermaster Santa Margarita P...			@smrwm.org	Associate
Water Resources Association of Yolo County	P.O. Box 8024, Woodland - 95776	(530) 666-2733	info@yolowra.org	Associate

You can filter the list by entering any portion of your organization’s name

If your organization has already been registered, find your organization and click the “associate” link.

Once you have registered yourself and are associated with your organization, you will be directed to the ME/DWR Homepage.

2.2 Homepage and Available Tabs

After successfully logging into the system, you are taken to the “Home” page, which contains information regarding the CASGEM program. From this page, you can select from several tabbed pages accessible on the CASGEM OS. The tabbed pages include:

- **Notifications:** for starting a new ME Notification, for viewing and managing you existing notifications, uploading basin shape files, and associating with other collaborating organizations.
- **Manage Wells:** to add and edit information about wells associated with your agency.
- **View Map:** to access the GIS functionality of the system.
- **Reports:** to generate reports of the CASGEM data for export or printing.
- **Administration:** for entering or editing information about your organization (only available to users with administrative privileges).
- **My Profile:** for creating and managing CASGEM user accounts. ¹
- **Public View:** for viewing the CASGEM OS like the general public views it.
- **Sign Out:** to log out of the CASGEM OS.

CASGEM Online System

Welcome: UAT User 1 for UAT Organization 1 as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Home

Welcome to the California Statewide Groundwater Elevation Monitoring (CASGEM) Online System

The CASGEM Online System now allows

- Register as an "Administrator" for a Monitoring Entity to maintain the Monitoring Entity's profile and create and maintain user accounts for yourself and collaborating agencies.
- Submit a Notification that your organization intends to assume the role of Monitoring Entity for a California groundwater basin, sub-basin, or portion of a sub-basin, including:
 - Organization details and contact information
 - The monitoring entity authority that best describes you (Water Code Section 10927)
 - GIS shapefiles that define the boundary of the area you intend to monitor
 - A groundwater management plan and/or monitoring plan
 - CASGEM well construction details and location information
- Submit groundwater elevation data (including batch uploads)
- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data in tabular format
- View hydrographs for single wells and compare hydrographs for multiple wells
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

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¹ DWR Users will not have the My Profile tab.

2.3 Notifications

Section Topics

- 2.3.1 [General Steps for Submitting a CASGEM Notification](#)
- 2.3.2 [Notifications](#)

2.3.1 General Steps for Submitting a CASGEM Notification

The general steps that prospective Monitoring Entities need to take to complete a CASGEM Notification are as follows:

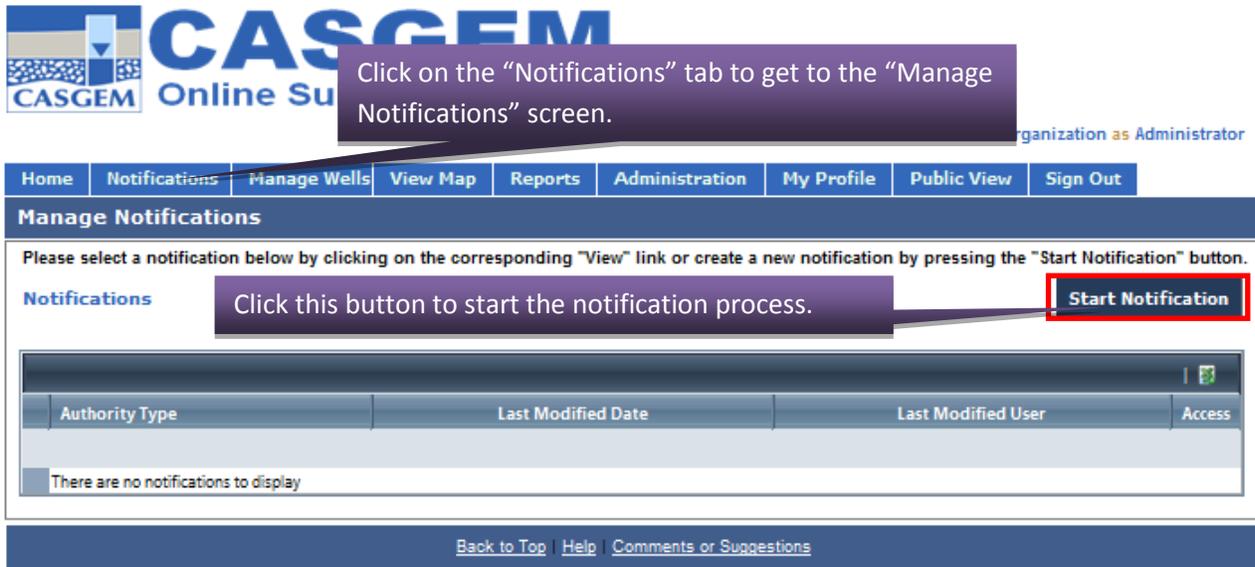
- Set up a CASGEM Submittal account
- Identify any affiliate organizations and provide contact information
- Identify and invite/authorize CASGEM System Users to view or enter data to your CASGEM account
- Select Monitoring Entity authority type that best describes your organization, as defined in Water Code Section 10927
- Identify your monitoring area and submit a Shapefile of the boundary
- Identify any Cooperating Agencies that will assist you with CASGEM data collection
- Submit documentation to verify your authority (Water Code Section 10927) to serve as a Monitoring Entity
- Submit Groundwater monitoring plan that may be a portion of an existing Groundwater Management Plan
- Submit or upload information about the wells in your monitoring network
- Submit your completed Notification to DWR

2.3.2 Notifications

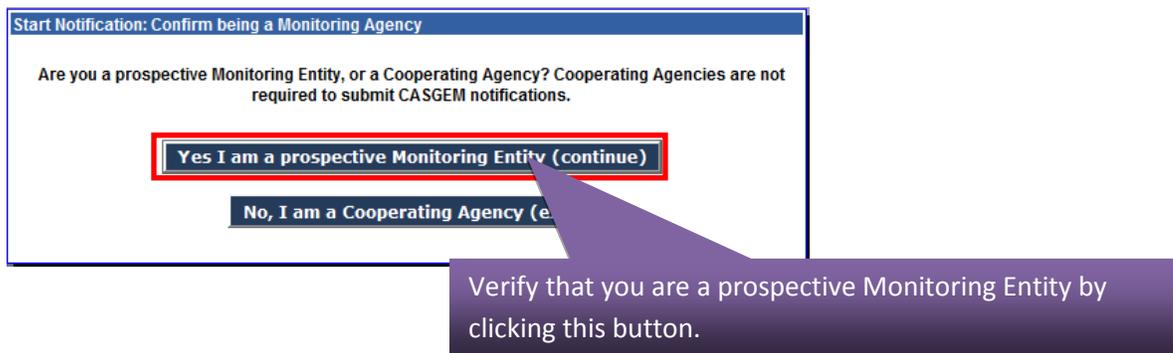
Creating a notification is a process composed of multiple steps, including providing details of the Groundwater basin to be monitored, identifying cooperating agencies, submitting required documents, and the actual submittal of the notification. These steps are described below.

To submit a new notification, please follow these steps:

Step 1 - Click on the Notifications tab, then click on “Start Notification”



Step 2 - Confirm that you are a prospective Monitoring Entity that wants to submit a notification.



Step 3 - Select the appropriate “Authority Type” from the dropdown menu that matches your organization as specified in Water Code Section 10927. This selection can only be changed if the notification is still open or DWR has unlocked the notification so the ME can submit new information at DWR’s or your request.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Notifications

BASIN DETAILS | Cooperating Agency Details | Required Documents | Submit Notification

Please select your agency's Authority Type and add/edit monitoring basins.

Select Authority Type

Authority Type *

[Back to Top](#) **Select Authority Type from the drop-down menu.**

Step 4 -Click the “Create Notification” button.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Notifications

BASIN DETAILS | Cooperating Agency Details | Required Documents | Submit Notification

Please select your agency's Authority Type and add/ **Click the “Create Notification” button.**

Select Authority Type

Authority Type *

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Step 5 - Click the “Add Basin” button to reveal a data entry form which allows you to add a new row to the “Basins” table.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home Notifications Manage Wells View Map Reports Administration My Profile Public View Sign Out

Manage Notifications

BASIN DETAILS Cooperating Agency Details Required Documents Submit Notification

Please select your agency's Authority Type and add/edit monitoring basins.

Select Authority Type

Authority Type* **Save Notification**

Add Basin Click here to add groundwater basins in your monitoring region.

Basins

Basin Name	Portion Name	Cooperating Agency	Attached Shape Files	Edit	Delete
There are no basins to display					

Next Page **Back to Notifications**

[Back to Top](#) [Help](#) [Comments or Suggestions](#)

Step 6 - The next screen will prompt you to provide information as follows:

Region of Basin: Select the hydrologic region (as described in Bulletin 118, Update 2003) from the dropdown menu in which the Groundwater basin, sub-basin, or portion of basin exists.

Basin Number and Name: Select the Groundwater Basin Number and Name (as described in Bulletin 118, Update 2003) from the dropdown menu.

Is data being submitted for the entire basin/sub-basin?: Select yes or no, depending on whether this notification is intended to cover the entire area of the basin or sub-basin. If “no” is selected, you will be asked to enter a “Basin Portion Name” to which this notification applies. The basin portion name is chosen by the Monitoring Entity. The chosen name does not have to match or comply with Bulletin 118 conventions. If you wish to change your status from a full basin to a partial basin, or vice versa, you are required to submit a new notification.

Do you have shape files?: If you have GIS shape files for the basin, click the “Select” button to upload the appropriate shape file (only the four files with extensions .dbf, .shp, .shx, and .prj are needed). You will be prompted to navigate to the location of the files on your computer; follow the prompts to upload your shape file. If you do not have a shape file, select the “No” option and, in the textbox, enter the reason why shapefiles cannot be submitted at this time. The CASGEM System validates the shapefile after it is submitted. Shapefiles must meet the following criteria:

1. Shapefile Validation Rule 1: Shapefile must have a coordinate system. The COORDINATE SYSTEM can be either projected or geographic (unprojected), but must use the NAD 83 datum.

2. Shapefile Validation Rule 2: Shapefile must fall inside the California extent. Parameters for checking the extent of California are as follows:

In meters:

```
XMin = -14079107;  
XMax = -12538697;  
YMin = 3730138;  
YMax = 5196110;
```

In decimal degrees:

```
XMinDeg = -128;  
XMaxDeg = -110;  
YMinDeg = 32;  
YMaxDeg = 43;
```

3. Shapefile Validation Rule 3: Shapefile features must be of the polygon geometry type

4. Shapefile Validation Rule 4: Each shapefile must contain only one polygon feature, including multipart polygons

5. Shapefile Validation Rule 5: Only the four files with the extensions shown below are needed:

- a. .dbf
- b. .shp
- c. .shx
- d. .prj

If the shapefile does not meet the previously stated criteria, you will receive an error message and be asked to re-submit the shapefile.

Upon filling out all of this information, click "Save".

Manage Notifications

BASIN DETAILS Cooperating Agency Details Required Documents Submit Notification

Please select your agency's Authority Type and add/edit monitoring basins.

Select Authority Type

Authority Type *

Basin Information

Region of Basin *

Basin Number and Name *

Is data being submitted for the entire basin /sub-basin? * Yes No

Do you have shape files? Yes No

Basin Shape File for corresponding basin or basin portion

.dbf *

.shx *

.shp *

.prj *

Only files with these four extensions are needed.

Browse for files.

After filling out all fields, click the "Save" button.

Basins

Basin Name	Portion Name	Cooperating Agency	Attached Shape Files	Edit	Delete
There are no basins to display					

Step 7 - The basin for which you created a notification will now appear in the “Basins” table. You can add more basins, sub-basins, or portions of basins to your notification by clicking on “Add Basin” again. If you make a mistake while adding a basin, you can edit or remove the entry by clicking “Edit” or “Delete”. When you have finished adding all the basins or portions of basins that are part of your notification, click “Next Page”.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Notifications

BASIN DETAILS | Cooperating Agency Details | Required Documents | Submit Notification

Please select your agency's Authority Type and add/edit monitoring basins.

Select Authority Type

Authority Type * **Save Notification**

Add Basin Click here again to add more basins.

Basins

Basin Name	Portion Name	Cooperating Agency	Attached Shape Files	Edit	Delete
2-33 Islais Valley			<ul style="list-style-type: none"> - East sanJoaquin 07282011140939 08232011155715.dbf - East sanJoaquin 07282011140939 08232011155715.prj - East sanJoaquin 07282011140939 08232011155715.shx - East sanJoaquin 07282011140939 08232011155715.shp 	Edit	Delete

Next Page **Back to Notifications** Click “Next Page” button when you are finished adding basins.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Step 8 (only needed for MEs with a Cooperating Agency) - If one or more cooperating agencies will be involved in your monitoring activities, use the follow-on screen, Manage Notifications: Cooperating Agencies, to associate those agencies with your notification and designate which basin(s) or portions of basin(s) they will contribute to. These agencies can already reside in the CASGEM OS if they have already registered, or you can register them with your notification. A table of agencies already defined within the CASGEM system is presented in the lower portion of the screen. You can scroll through the list or first filter the list by basin, portion of basin, or agency name. To select anyone of the agencies as a cooperating agency, click on the corresponding “Associate” link. If the agency has already been associated via a previous notification you made, the “Associate” link will not appear, but rather a “X” will appear in the “Remove Association” column that enables you to remove the association.

If you have a Cooperating Agency that does not appear on the list, you can click the “Register New Agency” button to enter the agency’s information (further instructions are present below).

First register a cooperating agency by clicking here if you cannot find them in the underlying list, then make the association (see further instruction).

To add a Cooperating Agency to your notification, click the "Associate" link

Register New Agency

Rows can be sorted by clicking on the desired header to sort.

Basin	Portion	Agency Name	Address	Contact Information	Associate Agency	Remove Association	Edit
<input type="text"/>	<input type="text"/>	<input type="text"/>					
		Mendocino City Community Services District			Associate		
		Calleguas Municipal Water District	2100 E. Olsen Road, Thousand Oaks, CA - 91360	hgraumlich@calleguas.com (805) 579-7127	Associate		
		Sather Gate Organization	100 Bancroft Way, Berkeley, CA - 94709	goldenbears@cal.com (510) 123-4567	Associate		
		Nantucket Farms	234 Sea Breeze Ave., Nantucket, MA - 25549	nantucketfarms@...com (508)...	Associate		
		Casitas Municipal Water District			Associate		
		East Contra Costa Irrigation District			Associate		
		Town of Discovery Bay	Discovery Bay, CA - 94505	vikdenme@townofdiscoverybay.gov (925) 634-1131	Associate		
		City of Port Hueneme	250 N. Ventura Rd., Port Hueneme, CA - 94963	shickox@ci.port-hueneme.ca.us (707) 431-1111	Associate		
		City of Brentwood	Brentwood, CA - 94515	(925) 516-6020			

You can filter the list by basin, portion of basin, or agency name using these fields and accompanying buttons.

To associate a previously registered agency as a cooperating agency in your notification, find the agency and click the adjacent "Associate" link.

Click the "Next Page" button when you are finished associating your cooperating agencies.

Previous Page Next Page Back to Notifications

Upon clicking “Associate”, a screen with a dropdown list containing the basins for the notification will appear as shown below. Use the dropdown button to select and confirm the basin that will be associated with the specific Cooperating Agency.

Upon selecting a basin/portion, you will return to the “Manage Notification: Cooperating Agencies” screen and a “X” will appear in the “Remove Association” column alongside the agency in the list as shown in the following screen shot, which enables you to remove the association if so desired. You can also edit the agency’s information with the “Edit” link.

Home Notifications Manage Wells View Map Reports Administration My Profile Public View Sign Out

Manage Notifications: Cooperating Agency Details

Basin Details **COOPERATING AGENCY DETAILS** Required Documents Submit Notification

To add a Cooperating Agency to your notification, click the "Associate" link

[Register New Agency](#)

Basin	Portion	Agency Name	Address	Contact	Remove Association	Edit
1-29 Honeydew Town Area		Orangevale Water District	347 Main Avenue Suite # 345, Orangevale, CA - 95662	ovwaterdist@yahoo.com (916) 987-6543	X	Edit
		Mendocino City Community Services District			Associate	
		Calleguas Municipal Water District	2100 F. Olsen Road, Thousand Oaks, CA 9136	harsunlich@calleguas.com		
		Nantucket Farms	234 S. ... Nantucket, MA - 25549	(508) 228-9765	Associate	
		Newest Org	123 P St., Sacramento, CA - 92310	janesmith@neworg.com (916) 438-5487	Associate	
		Sather Gate Organization	100 Bancroft Way, Berkeley, CA - 94709	goldenbears@cal.com (510) 123-4567	Associate	
		East Contra Costa Irrigation District	1711 Sellers Ave., Brentwood, CA - 94513	patcorey@cwo.com (925) 634-3544	Associate	
		Town of Discovery Bay	1800 Willow Lake Rd., Discovery Bay, CA - 94505	vkoehe@todb.ca.gov (925) 634-1131	Associate	

Indicates an association with the Cooperating Agency and basin (or basin portion) and can be used to cancel the association by clicking on the “X” icon.

You can also edit the Cooperating Agency information by clicking the “Edit” link.

If your Cooperating Agency is not on the list and you click the “Register New Agency” button as previously noted, the following screen shot will appear that allows you to enter its information. Fill out all required fields, and click the “Register Agency” button. You will then be directed back to the “Manage Notifications: Cooperating Agencies” page where the agency will now appear and you can click the “Associate” link to associate this Cooperating Agency with your notification as previously described.



Welcome: Jane Smith for Test Organization as Administrator

Home	Notifications	Manage Wells	View Map	Reports	Administration	My Profile	Public View	Sign Out
Manage Notifications: Register New Agency								
Agency Details *Indicates Required								
Name of Agency *	<input type="text" value="Enter Organization Name"/>	Abbreviation *	<input type="text" value="Enter Abbreviation"/>					
Address Type *	<input type="text" value="Office"/>	Address Line 2	<input type="text" value="Enter Address Line 2"/>					
Address Line 1 *	<input type="text" value="Enter Address Line 1"/>	State *	<input type="text" value="California"/>					
City Or Province *	<input type="text" value="Enter City/Province"/>	Country *	<input type="text" value="United States of America"/>					
Zip Code *	<input type="text" value="___-___"/>	Phone Number *	<input type="text" value="___-___-___"/>					
Contact Type	<input type="text" value="Direct Line"/>	Email Address *	<input type="text" value="Enter Email"/>					
Email Type *	<input type="text" value="Home Email"/>							
<input type="button" value="Register Agency"/> <input type="button" value="Previous"/>								
Back to Top Help Comments or Suggestions								

Fill out the required information and click “Register Agency” to complete the process.

When you finish associating Cooperating Agencies with basins, or if you do not have a cooperating agency, click the "Next Page" button to proceed to the "Required Documents" page.

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Notifications: Cooperating Agency Details

Basin Details | **COOPERATING AGENCY DETAILS** | Required Documents | Submit Notification

To add a Cooperating Agency to your notification, click the "Associate" link

[Register New Agency](#)

Basin	Portion	Agency Name	Address	Contact Information	Associate Agency	Remove Association	Edit
<input type="text"/>	<input type="text"/>	<input type="text"/>					
1-29 Honeydew Town Area		Orangevale Water District	347 Main Avenue Suite # 345, Orangevale, CA - 95662	ovwaterdist@yahoo.com (916) 987-6543		X	Edit
		Mendocino City Community Services District			Associate		
		Calleguas Municipal Water District	2100 E. Olsen Road, Thousand Oaks, CA - 91360	hgraumlich@calleguas.com (805) 579-7127	Associate		
		Nantucket Farms	234 Sea Breeze Ave., Nantucket, MA - 25549	nantucketfarms@gmail.com (508) 228-9765	Associate		
		Newest Org	123 P St., Sacramento, CA - 92310	janesmith@neworg.com (916) 438-5487	Associate		
		Sather Gate Organization	100 Bancroft Way, Berkeley, CA - 94709	goldenbears@cal.com (510) 123-4567	Associate		
		East Contra Costa Irrigation District	1711 Sellers Ave., Brentwood, CA - 94513	patcorey@cwo.com (925) 634-3544	Associate		
		Town of Discovery Bay	1800 Willow Lake Rd., Discovery Bay, CA - 94505	vkoehne@todb.ca.gov (925) 634-1131	Associate		
		City of Brentwood	2201 Elkins Way, Brentwood, CA - 94513	ebrennan@ci.brentwood.ca.us (925) 516-6020	Associate		
		Casitas Municipal Water District	1055 Ventura Ave, Oak View, CA - 93022	ncole@casitaswater.com (805) 610-2251-167	Associate		
		City of Port Hueneme		(805) 986-6566			

Leaving the "Cooperating Agencies" screen advances you to the "Required Documents" screen.

[Previous Page](#) | **[Next Page](#)** | [Back to Notifications](#)

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Step 9 - Depending on the type of authority chosen by a prospective Monitoring Entity, two or more documents must be uploaded to the CASGEM system to support and/or verify the notification. The “Required Documents” page prompts you for these documents, showing the list of required documents at the top of the page. Click on the “Select” button to open a dialog box and use it to navigate to the file on your computer. Highlight the file you want to upload then click the “Open” button to return to the “Required Documents” page. Next, select the applicable document category from the “File Category” dropdown menu and enter any pertinent comments in the “Remarks” box. Click the “Save File” button to upload the document to the CASGEM system.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Notifications: Required Documents

Basin Details | Cooperating Agency Details | **REQUIRED DOCUMENTS** | Submit Notification

Required Documents
The following documents are required

- Statement that the entity will comply with the requirements of WC Part 2.11
- Monitoring Plan Document describing the basin details

Document Details

Select File *

File Category *

Remarks

Attached Files

File Name	File Category	Date
There are no files to display		

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Continue selecting and saving documents until all required documents have been uploaded. If necessary, you may upload more than one file for a particular category of document.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Notifications: Required Documents

Basin Details | Cooperating Agency Details | **REQUIRED DOCUMENTS** | Submit Notification

Required Documents

The following documents are required

- Statement that the entity will comply with the requirements of WC Part 2.11
- Monitoring Plan Document describing the basin details

Document Details

Select File *

File Category *

Remarks

Attached Files

File Name	File Category	Date	Remarks	Download	Delete
Standard Giberrish 08192011142855.txt	Statement that the entity will comply with the requirements of WC Part 2.11	8/19/2011 2:29:32 PM		Download	Delete
report txt 08192011142906.txt	Monitoring Plan Document describing the basin details	8/19/2011 2:29:43 PM		Download	Delete

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Once uploaded, a file can be downloaded or deleted by clicking the appropriate field.

After you finish uploading the required documents, click "Next Page" to proceed.

Step 10 - The final step in a Monitoring Entity notification is to submit your notification. Type your name in the provided text box and click the "Submit Notification" button to complete the process. **NOTE: Once the notification is submitted, it cannot be edited or updated. Be sure that the details of the notification are correct before clicking the "Submit Notification" button.** After completing this step, you will be returned to the main "CASGEM Submittal" page. From here you can start a new notification, view an existing submitted notification or edit an open notification. Use the "Previous Page" or "Back to Notifications" buttons if you must go back and edit your notification information prior to submittal.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Notifications: Submit Notification

Basin Details | Cooperating Agency Details | Required Documents | **SUBMIT NOTIFICATION**

This is the final step of the CASGEM Notification.

If the information you have submitted is complete and accurate, please confirm that the name below will be used as the electronic signature to submit the notification by clicking the "Submit Notification" button. Potential monitoring entity notification using the CASGEM Online Submittal System on or before January 1, 2011 will meet the mandated deadline specified in Water Code Section 10928.

Thank you for your interest in CASGEM. DWR will soon contact to r

NOTE: Please be sure that your notification is complete before y

Electronic Signature: Jane Smith

Submit Notification | Cancel

NOTE: Upon submitting your notification, no further changes can be made unless you contact DWR and request to make administrative changes.

Previous Page | **Back to Notifications**

Back to Top | Help | Comments or Suggestions

Use these buttons if you must go back and edit your notification information prior to submittal.

Upon submitting, the notification will have a "Submitted" status.

The screenshot displays the CASGEM Online System interface. At the top left is the CASGEM logo. To its right, the text "CASGEM Online System" is displayed. Below the logo, a navigation menu includes links for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. A welcome message reads "Welcome: Jane Smith for Test Organization as Administrator". The main section is titled "Manage Notifications" and contains a "Start Notification" button. Below this is a table of notifications. The table has columns for Authority Type, Last Modified Date, Last Modified User, and Access. The first three rows show "Ground Water Management Agency" with a "View" link. Below this is a detailed table with columns for Basin, Portion Name, Agency, Status, Reviewer, and Submission Date. The "Status" column for all four rows is "Submitted" and is highlighted with a red box. A purple callout box with an arrow points to the "View" link in the first row of the detailed table.

Authority Type	Last Modified Date	Last Modified User	Access
> Ground Water Management Agency	8/19/2011	ttgtestuser@gmail.com	View
> Ground Water Management Agency	8/19/2011	ttgtestuser@gmail.com	View
∨ Ground Water Management Agency	8/19/2011	ttgtestuser@gmail.com	View

Basin	Portion Name	Agency	Status	Reviewer	Submission Date
Eastern San Joaquin			Submitted		8/19/2011
Santa Clara	Monroe Portion		Submitted		8/19/2011
Half Moon Bay Terrace			Submitted		8/19/2011
Honeydew Town Area		Orangevale Water District	Submitted		8/19/2011

You can view details of submitted notifications by clicking on View.

2.4 Managing Wells

The “Manage Wells” tab allows you, as a ME, to create, view and manage your monitoring wells. The following web screens are available under the “Manage Wells” tab:

- Search/Add Wells + Excel Import
- Groundwater Elevation Data
- Well Information
- Manage Well Groups

Each of the functions available for managing you CASGEM monitoring well data will be discussed in detail in the order presented below.

The Managing Well section topics include:

2.4.1 [Well Information](#)

2.4.1.1 [View / Edit Wells](#)

2.4.1.2 [Search for an Existing Well](#)

2.4.1.3 [Add New Wells](#)

- Add Wells from a Search
- Add Single Wells
- Batch Upload Multiple Wells

2.4.2 [Groundwater Elevation Data](#)

2.4.2.1 [Batch Upload Elevation Data](#)

2.4.2.2 [Manually Input Elevation Data](#)

2.4.2.3 [View and Edit Existing Elevation Data](#)

2.4.3 [Well Groups](#)

2.4.3.1 [Creating a New Well Group](#)

2.4.3.2 [Adding Wells to a Data Entry Well Group](#)

2.4.3.3 [Adding Wells to a Reporting Well Group](#)

2.4.3.4 [Removing Wells from a Well Group](#)

2.4.3.5 [Editing Well Groups](#)

2.4.3.6 [Deleting Well Groups](#)

2.4.1 Well Information

The “Well Information” screen is reached by clicking the “Well Information” link on the “Manage Wells” tab pull down menu on the home page (shown below).

CASGEM Online System

Welcome: UAT User 1 for UAT Organization 1 as Administrator

Home | Notifications | **Manage Wells** | View Map | Reports | Administration | My Profile | Public View | Sign Out

Home | Groundwater Elevation Data | **Well Information** | Manage Well Groups

Welcome to Statewide Groundwater Elevation Monitoring (CASGEM) Online System

The CASGEM Online System now allows you to:

- Register as an “Administrator” for a Monitoring Entity to maintain accounts for yourself and collaborating agencies.
- Submit a Notification that your organization intends to assume the basin, sub-basin, or portion of a sub-basin, including:
 - Organization details and contact information
 - The monitoring entity authority that best describes you (Water Code Section 10927)
 - GIS shapefiles that define the boundary of the area you intend to monitor
 - A groundwater management plan and/or monitoring plan
 - CASGEM well construction details and location information
- Submit groundwater elevation data (including batch uploads)
- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data in tabular format
- View hydrographs for single wells and compare hydrographs for multiple wells
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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11/15/2011

It allows the user to do the following:

- 2.4.1.1 [View/Edit Wells](#)
- 2.4.1.2 [Search for an Existing Well](#)
- 2.4.1.3 [Add New Wells](#)
 - Add Wells from a Search
 - Add Single Wells
 - Batch Upload Multiple Wells

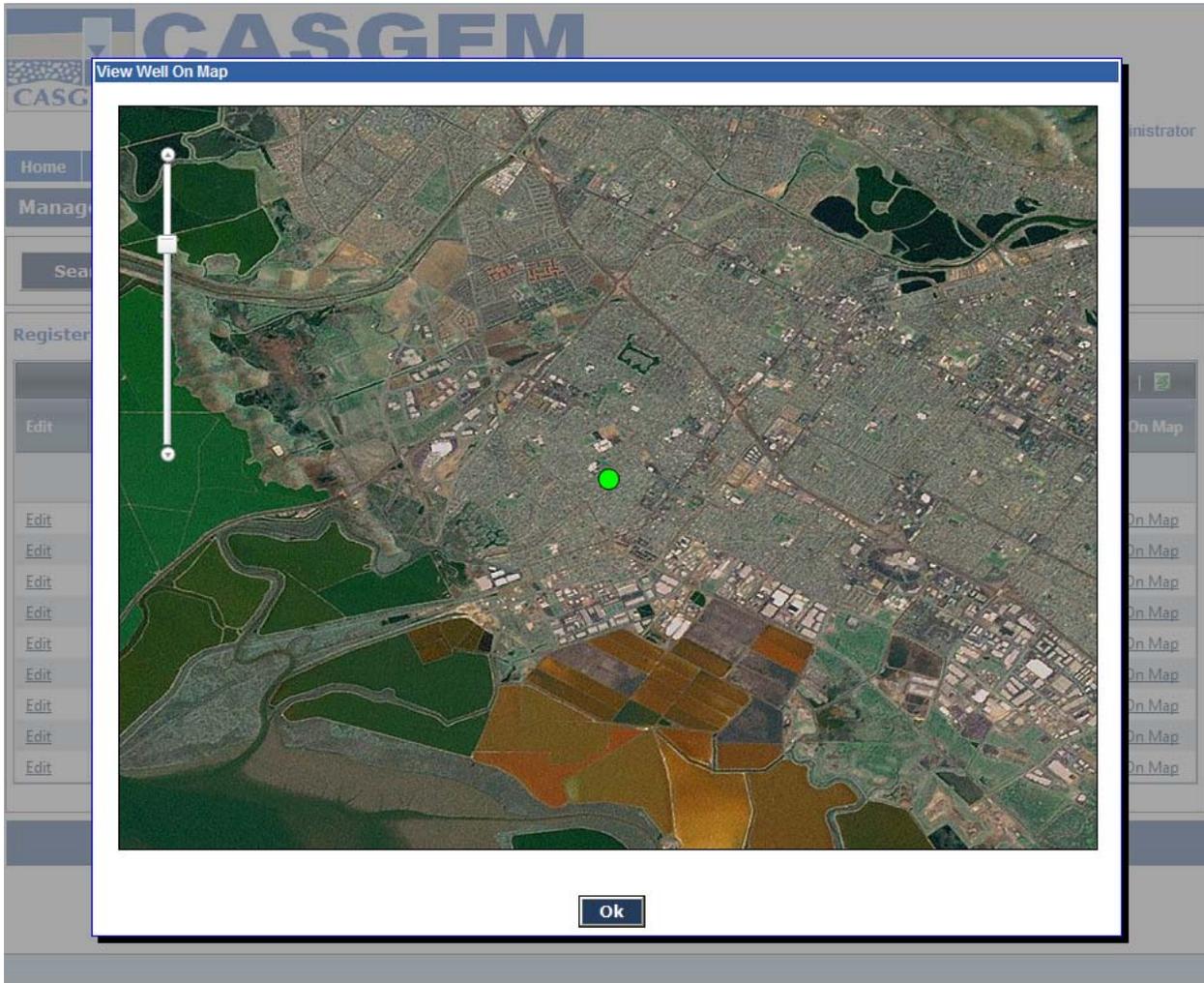
2.4.1.1 View/Edit Wells

All wells that are registered to your ME organization will be listed in the Registered Wells table within the Well Information subtopic of the Manage Wells tab. To view or edit well information, click on the “Edit” link next to the desired well.

The screenshot shows the CASGEM Online System interface. At the top, the logo for CASGEM Online System is displayed. Below the logo, a welcome message reads: "Welcome: Jane Smith for Test Organization as Administrator". A navigation menu includes links for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The "Manage Wells" section is active, showing a search bar with "Search/Add" and "Excel Import" buttons. A callout box points to the search bar with the text: "Wells registered to your organization." Below the search bar is a table titled "Registered Wells". The table has columns for Edit, Local Well Designation, Basin, Portion, State Well Number, Well Use, Depth, and View On Map. The table contains four rows of well data. Callouts point to the "Edit" links in the first row and the "View On Map" links in the second and third rows. A callout at the bottom left points to the "Edit" link in the first row with the text: "Click to edit." A callout at the bottom right points to the "View On Map" links in the second and third rows with the text: "You can also view wells on a map by using these links."

Edit	Local Well Designation	Basin	Portion	State Well Number	Well Use	Depth	View On Map
Edit	02N01W08B001H			02N01W08B001H	Irrigation		View On Map
Edit	01S04W23E001M			01S04W23E001M	Industrial		View On Map
Edit	02S07E20R002M			02S07E20R002M	Residential		View On Map
Edit	34N21S3876H123			34N21E228H12H	Industrial		View On Map

If you select “View on Map” link, the following screen will appear displaying the well location on an aerial map for useful geospatial reference confirmation.



Upon clicking “Edit”, the Add / Review Wells page will pop up, showing all Well information in editable fields. Users can merely view the data and then press “Back to Manage Wells” without making any changes. If they wish to edit any information users can change any of the values, replace them with new values and click “Save” to save the data.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | **Manage Wells** | View Map | Reports | Administration | My Profile | Public View | Sign Out

Monitoring Plan: Add/Review Wells

Identification

Local Well Designation *

Is Local Designation the same as State Well #? Yes No

State Well Number

Master Site Code

Data submittals for this well are under * CASGEM Voluntary

Coordinates

Latitude * North

Longitude * West

[View on Map](#)

Method *

Accuracy *

Reference and Ground Surface

RP Elevation * ft.

Description *

GS Elevation * ft.

Method *

Accuracy *

Distance from RP

Well Construction

Completion Type *

Total Depth * ft. Unknown

Do you have well construction data? Yes No

Depth of screened interval(s)

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
Top										
Bottom										

Well completion report available? Yes No

Well Completion Report #

Well Usage

Well Use *

Associated Basin & County

Basin/Portion

County *

Additional Information

To edit: change any field and click Save.

To view only: When finished viewing, click “Back to Manage Wells”

Back to Top | Help | Comments or Suggestions

2.4.1.2 Search for an Existing Well

To search for a single well, click the “Search / Add” button on the Well Information subsection of the Manage Wells tab.

The screenshot shows the CASGEM Online System interface. At the top, the logo reads "CASGEM Online System". A welcome message says "Welcome: Jane Smith for Test Organization as Administrator". A navigation bar includes "Home", "Notifications", "Manage Wells", "View Map", "Reports", "Administration", "My Profile", "Public View", and "Sign Out". Below this is a "Manage Wells" section with two buttons: "Search/Add" (highlighted with a red box) and "Excel Import". Underneath is a "Registered Wells" table with columns: Edit, Local Well Designation, Basin, Portion, State Well Number, Well Use, Depth, and View On Map. A single row is visible with the value "34N21S3876H123" in the State Well Number column. At the bottom, there are links for "Back to Top", "Help", and "Comments or Suggestions".

Enter the well name or number in the search panel shown below. If the well cannot be found by name or number, and an advanced search is desired, click the “Advanced Search Options” button.

The screenshot shows the "Detailed Well Information" page. It features an "Add New Well" button and a search section titled "Search by Name or Number". This section contains three input fields: "Local Well Designation" (with placeholder "Enter Local Well Designation"), "CASGEM Well Number" (with placeholder "Enter CASGEM Well Number"), and "State Well Number" (with placeholder "Enter State Well Number"). A red box highlights these three fields. Below them are "Search" and "Advanced Search Options" buttons. A callout box points to the "State Well Number" field with the text: "You must enter the full 13 letter/digit combination for the state well number." Another callout box points to the "Advanced Search Options" button with the text: "To search by more parameters, click on 'Advanced Search Options'." At the bottom, there is a "Back To Manage Wells" button and links for "Back to Top", "Help", and "Comments or Suggestions".

An additional section will pop up. Here you can search for a well based on as few or as many attributes as you would like.

The screenshot displays the CASGEM Online System interface. At the top left is the CASGEM Online System logo. To the right, a welcome message reads: "Welcome: Jane Smith for Test Organization as Administrator". Below this is a navigation menu with buttons for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The main content area is titled "Detailed Well Information" and contains an "Add New Well" button. Below this are two search sections: "Search by Name or Number" with input fields for Local Well Designation, CASGEM Well Number, and State Well Number; and "Search by Attributes" with dropdown menus for Hydrological Region, Basin Name and Number, Regional Office, County (highlighted with a red box), Monitoring Entity, Well Use (highlighted with a red box), Well Status, and Completion Type. A "Search" button (highlighted with a red box) and a "Basic Search Options" button are located below the search fields. At the bottom of the main content area is a "Back To Manage Wells" button. The footer contains links for "Back to Top", "Help", and "Comments or Suggestions".

The results of your search will show up in a table below the Search button (as seen below).

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Detailed Well Information

Add New Well

Search by Name or Number

Local Well Designation:
CASGEM Well Number:
State Well Number:

Search by Attributes

Hydrological Region: Well Use:
Basin Name and Number: Well Status:
Regional Office: Completion Type:
County:
Monitoring Entity:

Search **Basic Search Options**

Local Well Designation	Basin	Portion	State Well Number	Well Use	Depth	View On Map	Details
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
34N21S3876H123			34N21E22BH12H	Industrial		View On Map	View/Associate

Back To Manage Wells

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

2.4.1.3 Add New Wells

NOTE: Before adding a well, users are encouraged to search for the well in the system, to avoid adding duplicate Wells.

Add Wells from a Search

New wells can be added to your organization by doing a search for wells (see instructions above). Within the search results grid, click the “View/Associate” link to view and add/associate wells to your organization.

The screenshot displays the CASGEM Online System interface. At the top, the logo reads "CASGEM Online System". A welcome message states: "Welcome: Jane Smith for Test Organization as Administrator". A navigation bar includes links for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out.

The main content area is titled "Detailed Well Information" and features a prominent "Add New Well" button. Below this, there are two search sections:

- Search by Name or Number:** Includes input fields for "Local Well Designation", "CASGEM Well Number", and "State Well Number".
- Search by Attributes:** Includes dropdown menus for "Hydrological Region", "Basin Name and Number", "Regional Office", "County", "Monitoring Entity", "Well Use", "Well Status", and "Completion Type".

A "Search" button is located below the search options. Below the search section is a table with the following data:

Local Well Designation	Basin	Portion	State Well Number	Well Use	Depth	View On Map	Details
34N21S3876H123			34N21E22BH12H	Industrial		View On Map	View/ Associate

At the bottom of the interface, there is a "Back To Manage Wells" button and a footer with links for "Back to Top", "Help", and "Comments or Suggestions". A purple callout box on the right side of the table contains the text: "Click here to associate well to your organization."

You will then be presented with a Well information page (as seen below).

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Monitoring Plan: Add/Review Wells

Identification

Local Well Designation *

Is Local Designation the same as State Well #? Yes No

State Well Number

Master Site Code

Data submittals for this well are under * CASGEM Voluntary

Coordinates

Latitude * North

Longitude * West

[View on Map](#)

Method *

Accuracy *

Reference and Ground Surface

RP Elevation * ft.

Description *

GS Elevation * ft.

Method *

Accuracy *

Distance from RP

Well Construction

Completion Type *

Total Depth * ft. Unknown

Do you have well construction data? Yes No

Depth of screened interval(s)

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
Top										
Bottom										

Well completion report available? Yes No

Well Completion Report #

Well Usage

Well Use *

Well Status *

Associated Basin & County

Basin/Portion

County *

Additional Information

Written description of location of well

Any additional comments

Back to Top | Help | Comments or Suggestions

You must enter the following information about this well:

- Local Well Designation
- RP Elevation (i.e., surveyed elevation datum, typically the top of casing or sounding pipe)

- Description
- County
- Total Depth
- Well Use
- Well Status
- Completion Type
- Latitude
- GS Elevation
 - Method
 - Accuracy
- Longitude
 - Method
 - Accuracy

Home
Notifications
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Monitoring Plan: Add/Review Wells

Identification

Local Well Designation *

Is Local Designation the same as State Well #? Yes No

State Well Number

Master Site Code 377406N1212160W001

Data submittals for this well are under * CASGEM Voluntary

Coordinates

Latitude * North

Longitude * West
[View on Map](#)

Method *

Accuracy *

Reference and Ground Surface

RP Elevation * ft.

Description *

GS Elevation * ft.

Method *

Accuracy *

Distance from RP

Well Construction

Completion Type *

Total Depth * ft. Unknown

Do you have well construction data? Yes No

Depth of screened interval(s)

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
Top										
Bottom										

Well completion report available? Yes No

Well Completion Report #

Well Usage

Well Use *

Well Status *

Associated Basin & County

Basin/Portion

County *

Additional Information

Written description of location of well

Any additional comments

Associate

Back To Manage Wells

Enter all required information for the well, and then click on Associate.

Upon clicking on “Associate”, the page will refresh giving you a chance to verify Well details. When you are sure all of the information is correct, click “Save” to save this well to your organization.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Monitoring Plan: Add/Review Wells

Identification

Local Well Designation *

Is Local Designation the same as State Well #? Yes No

State Well Number

Master Site Code

Data submittals for this well are under * CASGEM Voluntary

Coordinates

Latitude * North

Longitude * West

[View on Map](#)

Method *

Accuracy *

Reference and Ground Surface

RP Elevation * ft.

Description *

GS Elevation * ft.

Method *

Accuracy *

Distance from RP

Well Construction

Completion Type *

Total Depth * ft. Unknown

Do you have well construction data? Yes No

Depth of screened interval(s)

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
Top										
Bottom										

Well completion report available? Yes No

Well Completion Report #

Well Usage

Well Use *

Well Status *

Associated Basin & County

Basin/Portion

County *

Additional Information

Written description of location of well

Any additional comments

Save **Cancel** **Back To Manage Wells**

Verify that all information is correct and click “Save”, which will associate the well to your organization.

Add Single Wells

If the desired well was not found upon doing a search, you can manually enter the well information for a new well. First, select the Search/Add option from the starting Well Information page within the Manage Wells tab.

The screenshot shows the CASGEM Online System interface. At the top, the logo and 'System' text are visible. A welcome message reads: 'Welcome: Jane Smith for Test Organization as Administrator'. A navigation menu includes: Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. Below the menu is a 'Manage Wells' header. Two buttons are present: 'Search/Add' (highlighted with a red box) and 'Excel Import'. A table titled 'Registered Wells' contains the following data:

Edit	Local Well Designation	Basin	Portion	State Well Number	Well Use	Depth	View On Map
Edit	02S07E20R002M			02S07E20R002M	Residential		View On Map
Edit	34N21S3876H123			34N21E22BH12H	Industrial		View On Map

At the bottom of the page, there are links for 'Back to Top', 'Help', and 'Comments or Suggestions'.

This will take you to a new page, where you should click on the “Add New Well” button” located at the top of the page.

The screenshot shows the 'Detailed Well Information' page in the CASGEM Online System. The navigation menu is the same as in the previous screenshot. Below the 'Detailed Well Information' header, there is a button labeled 'Add New Well' (highlighted with a red box). Underneath, there is a section titled 'Search by Name or Number' with three input fields: 'Local Well Designation' (with placeholder text 'Enter Local Well Designation'), 'CASGEM Well Number' (with placeholder text 'Enter CASGEM Well Number'), and 'State Well Number' (with placeholder text 'Enter State Well Number'). Below these fields are two buttons: 'Search' and 'Advanced Search Options'. At the bottom of the page, there is a button labeled 'Back To Manage Wells' and the same footer links: 'Back to Top', 'Help', and 'Comments or Suggestions'.

The system will open the “Well Information” page. Fill out all of the necessary information, and click Save. If you enter a well with a State Well Number (SWN) that is already in the DWR’s Water Data Library (WDL), you will get an error message that prevents information being inadvertently duplicated. If this occurs, you must search for the well first to add it to your managed wells.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Monitoring Plan: Add/Review Wells

Identification

Local Well Designation *

Is Local Designation the same as State Well #? Yes No

State Well Number

Master Site Code

Data submittals for this well are under * CASGEM Voluntary

Coordinates

Latitude * North

Longitude * West

[View on Map](#)

Method *

Accuracy *

Reference and Ground Surface

RP Elevation * ft.

Description *

GS Elevation * ft.

Method *

Accuracy *

Distance from RP

Well Construction

Completion Type *

Total Depth * ft. Unknown

Do you have well construction data? Yes No

Depth of screened interval(s)

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
Top	<input type="text"/>									
Bottom	<input type="text"/>									

Well completion report available? Yes No

Well Completion Report #

Well Usage

Well Use *

Well Status *

Associated Basin & County

Basin/Portion

County *

Additional Information

Written description of location of well

Any additional comments

Save

Clear

Back To Manage Wells

Batch Upload Multiple Wells

Users can batch upload wells by using the Excel upload functionality of the CASGEM System. To go to the upload page, click on “Excel Import” on the Wells Information subsection of the Manage Wells tab.

The screenshot shows the CASGEM Online System interface. At the top, there is a navigation menu with items: Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. Below the menu is a header for "Manage Wells" with two buttons: "Search/Add" and "Excel Import" (highlighted with a red box). Underneath is a section titled "Registered Wells" containing a table with columns: Edit, Local Well Designation, Basin, Portion, State Well Number, Well Use, Depth, and View On Map. The table lists two wells: one with Local Well Designation 02S07E20R002M and State Well Number 02S07E20R002M (Residential use), and another with Local Well Designation 34N21S3876H123 and State Well Number 34N21E22BH12H (Industrial use). At the bottom of the interface, there are links for "Back to Top", "Help", and "Comments or Suggestions".

The user is presented with the “Upload Excel File” page. Click on the “Browse” button to navigate to the Excel file that you wish to upload. When you have found the appropriate Excel file, click “Upload Excel File” to save your data.

This screenshot shows the "Upload Excel File" page in the CASGEM Online System. A callout box on the left explains that blank template files can be downloaded by clicking on the "Download Template" hyperlink, and that users can also use their own Excel files as long as they follow the provided template format and instructions. The main interface includes a "Browse..." button (highlighted with a red box) for selecting an Excel file. Below it are two links: "Download template (.xlsx)" and "Download template in 97-2003 (.xls) format". At the bottom of the page, there are "Upload Excel File" and "Back" buttons (both highlighted with red boxes). The navigation menu at the top includes Administration, My Profile, Public View, and Sign Out. A note at the top of the page states: "Note: Excel file batch uploads are for new wells. If your data has already been transferred to CASGEM." At the bottom, there are links for "Back to Top", "Help", and "Comments or Suggestions".

2.4.2 Groundwater Elevation Data

Groundwater data can be entered by clicking the “Groundwater elevation Data” link on the “Manage Wells” tab pull down menu on the home page (shown below).

CASGEM Online System

Welcome: UAT User 1 for UAT Organization 1 as Administrator

Home | Notifications | **Manage Wells** | View Map | Reports | Administration | My Profile | Public View | Sign Out

Home | **Groundwater Elevation Data** | Well Information | Manage Well Groups

Welcome to Statewide Groundwater Elevation Monitoring (CASGEM) Online System

The CASGEM Online System now allows you to:

- Register as an “Administrator” for a Monitoring Entity to maintain accounts for yourself and collaborating agencies.
- Submit a Notification that your organization intends to assume the responsibility for monitoring a basin, sub-basin, or portion of a sub-basin, including:
 - Organization details and contact information
 - The monitoring entity authority that best describes you (Water Code Section 10927)
 - GIS shapefiles that define the boundary of the area you intend to monitor
 - A groundwater management plan and/or monitoring plan
 - CASGEM well construction details and location information
- Submit groundwater elevation data (including batch uploads)
- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data in tabular format
- View hydrographs for single wells and compare hydrographs for multiple wells
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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11/15/2011

The Groundwater Elevation Data sub-menu (screen shown below) allows users to do the following:

- 2.4.2.1 [Batch Upload Elevation Data](#)
- 2.4.2.2 [Manually Input Elevation Data](#)
 - Manually Input Elevation Data for Wells in a Well Group
 - Manually Input Elevation Data for a Single Well
- 2.4.2.3 [View and Edit Existing Elevation Data](#)
 - View Elevation Data for an Existing Well
 - Edit Elevation Date for an Existing Well
 - View Hydrograph of Existing Well
 - Elevation Data Audit Trail

Each of these functionalities is explained in detail below.

2.4.2.1 Batch Upload Elevation Data

Users can batch upload elevation data by using the Excel upload functionality of the CASGEM System. To go to the upload page, click on “Elevation Data Import” on the Groundwater Elevation Data subsection of the Manage Wells tab.

The screenshot displays the CASGEM Online System interface. At the top left is the CASGEM Online System logo. To the right, a welcome message reads: "Welcome: Jane Smith for Test Organization as Administrator". Below this is a navigation menu with buttons for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The "Manage Wells" button is selected, leading to the "Well Elevation Measurements" section. Under this section, the "Batch Upload" area contains a red-bordered button labeled "Elevation Data Import". Below the button are form fields for "Select Well Group" (a dropdown menu), "Measurement Date" (a date picker), and "Collecting/Co-op Agency" (a dropdown menu showing "Test Organization"). An "Add Measurements" button is positioned below these fields. The "Latest Elevation Data" section features a table with the following columns: CASGEM ID, Local Well Number, Date, Military Time (PST), NM, QM, Reading @RP, Reading @WS, RP to WS, RP Elev, GS Elev, WSE, GS to WS, Measurement Method, and Ac (ft). Two rows of data are visible in the table:

CASGEM ID	Local Well Number	Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Ac (ft)
355000N1203628W001	34N21S3876H123													
377406N1212160W001	02S07E20R002M													

At the bottom of the interface, there are links for "Back to Top", "Help", and "Comments or Suggestions".

The system will present the “Upload Elevation Data File” screen. Before you begin, you need to download the blank template file by clicking on the “Download Template” hyperlink. In order to batch download data, the elevation data must be arranged according to the template spreadsheet. If this is the first time you are attempting to upload batch data, DWR recommends that you start by uploading only a small batch of wells to verify the data is properly arranged. Otherwise, erroneous entries will cause multiple error messages to occur and frustrate the batch download effort. The agency name entered in the spreadsheet must match exactly to the name registered in CASGEM.

For entering elevation data in the table, the “Reading@RP” is the tape measurement at the Reporting Point (RP) during the groundwater sounding. The RP is defined by the Well Information for the selected well (typically the surveyed elevation datum that is often the top of the well casing or sounding pipe). The “Reading@WS” is the tape measurement at the groundwater level (e.g., the noted watermark on a steel tape sounder after making the sounding; or sensor point on an electronic sounder, typically 0.00).

Click on the “Browse” button to navigate to the Excel file you have created and wish to upload. You can also use your own Excel file, as long as it follows the provided template format and instructions.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Upload Elevation Data File

File Name *

[Download template \(.xlsx\)](#)
[Download template in 97-2003 \(.xls\) format](#)

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

If your upload is successful, the following message will pop up.

Excel Upload Status

Excel Upload processed successfully.

Clicking Ok will take you back to the Groundwater Elevation Data page.

If your upload is not successful, the system will present a page similar to the one shown below.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Upload Elevation Data File

File Name *

[Download template \(.xlsx\)](#)
[Download template in 97-2003 \(.xls\) format](#)

Excel data validation Messages

To view a detailed error message, click the white arrow to the left of each row in the grid below

rowNumber	CASGEM ID
> 2	372341N1179745W008
> 3	372341N1179745W008
> 4	372341N1179745W008
> 5	372341N1179745W008
▼ 6	372341N1179745W008
> 7	372341N1179745W008
> 8	372341N1179745W008
> 9	372341N1179745W008
> 10	372341N1179745W008
> 11	372341N1179745W008

Column Description	Error Code	Error Description
CASGEM ID	DuplicateElevation	A CASGEM ID was specified multiple times in the import file: '372341N1179745W008'.

Arrows can be clicked to open up rows with detailed error descriptions.

To batch upload data: Fix the errors listed, re-save the excel document and upload it again using the "Browse" button above.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

2.4.2.2 Manually Input Elevation Data

Manually Input Elevation Data for Wells in a Well Group

To manually input elevation data for wells in a Well Group, go to the pull-down menu of the Manage Wells tab and select “Groundwater Elevation Data.” On this page, fill out the middle section (see below). Upon entering the Well Group, Measurement Date and Co-op Agency, select “Add Measurements”.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Well Elevation Measurements

Batch Upload
Elevation Data Import

Select Well Group *
Measurement Date *
Collecting/Co-op Agency *

Add Measurements

Fill out these fields.
Then select “Add Measurements”.

Latest Elevation Data

CASGEM ID	Local Well Number	Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method
377406N1212160W001	02S07E20R002M	08/12/2010	18:20		1	13.2660	9.3280	3.9380	15	7.80	11.0620	-3.2620	AS
355000N1203628W001	34N21S3876H123	02/23/2011	13:45	2									

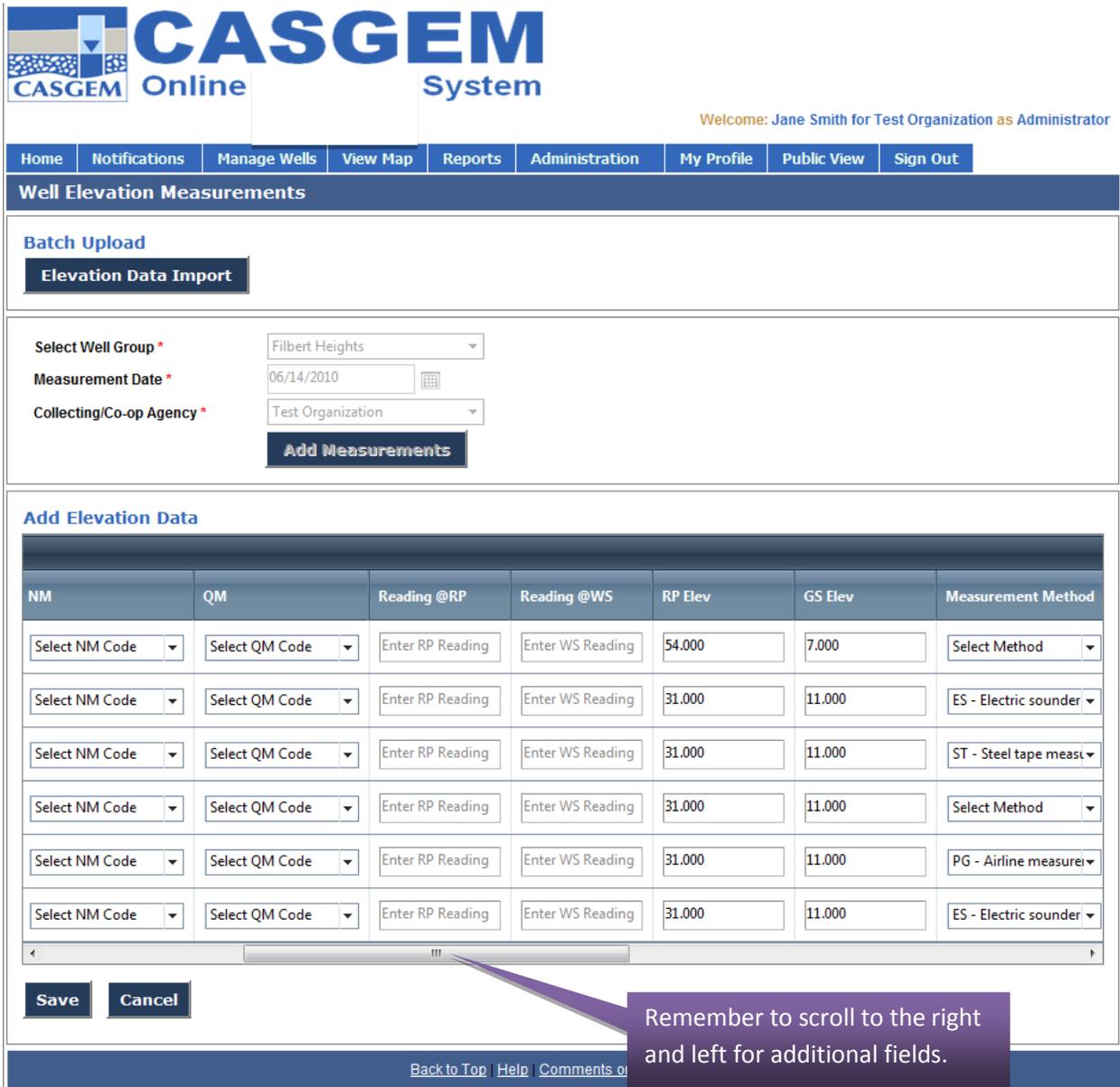
[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

This will bring up a table below the Search form, showing all wells within the selected Well Group. To add measurements, input data into the required and optional fields within the table.

The reference point elevation (RP Elev) and the ground-surface elevation (GS Elev) are auto-populated from the well information page (Section 2.4.1, page 40). If there is a revision to the RP or GS elev please update the well information page accordingly. If a measurement was not made or is in question use the no measurement (NM) or questionable measurement (QM) codes and leave a comment as appropriate.

The “Reading@RP” is the tape measurement at the Reporting Point (RP) during the groundwater sounding. The RP is defined by the Well Information for the selected well (typically the surveyed elevation datum that is often the top of the well casing or sounding pipe). The “Reading@WS” is the tape measurement at the groundwater level (e.g., the noted watermark on a steel tape sounder after making the sounding; or sensor point on an electronic sounder, typically 0.00).

Upon making all desired changes, click Save. An example screen shot is present on the following page.



CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Well Elevation Measurements

Batch Upload

Elevation Data Import

Select Well Group *

Measurement Date *

Collecting/Co-op Agency *

Add Measurements

Add Elevation Data

NM	QM	Reading @RP	Reading @WS	RP Elev	GS Elev	Measurement Method
<input type="text" value="Select NM Code"/>	<input type="text" value="Select QM Code"/>	<input type="text" value="Enter RP Reading"/>	<input type="text" value="Enter WS Reading"/>	<input type="text" value="54.000"/>	<input type="text" value="7.000"/>	<input type="text" value="Select Method"/>
<input type="text" value="Select NM Code"/>	<input type="text" value="Select QM Code"/>	<input type="text" value="Enter RP Reading"/>	<input type="text" value="Enter WS Reading"/>	<input type="text" value="31.000"/>	<input type="text" value="11.000"/>	<input type="text" value="ES - Electric sounder"/>
<input type="text" value="Select NM Code"/>	<input type="text" value="Select QM Code"/>	<input type="text" value="Enter RP Reading"/>	<input type="text" value="Enter WS Reading"/>	<input type="text" value="31.000"/>	<input type="text" value="11.000"/>	<input type="text" value="ST - Steel tape meas"/>
<input type="text" value="Select NM Code"/>	<input type="text" value="Select QM Code"/>	<input type="text" value="Enter RP Reading"/>	<input type="text" value="Enter WS Reading"/>	<input type="text" value="31.000"/>	<input type="text" value="11.000"/>	<input type="text" value="Select Method"/>
<input type="text" value="Select NM Code"/>	<input type="text" value="Select QM Code"/>	<input type="text" value="Enter RP Reading"/>	<input type="text" value="Enter WS Reading"/>	<input type="text" value="31.000"/>	<input type="text" value="11.000"/>	<input type="text" value="PG - Airline measure"/>
<input type="text" value="Select NM Code"/>	<input type="text" value="Select QM Code"/>	<input type="text" value="Enter RP Reading"/>	<input type="text" value="Enter WS Reading"/>	<input type="text" value="31.000"/>	<input type="text" value="11.000"/>	<input type="text" value="ES - Electric sounder"/>

Save **Cancel**

[Back to Top](#) | [Help](#) | [Comments on](#)

Remember to scroll to the right and left for additional fields.

If the Save was successful, the system will present the user with a message. The newly added measurements will be displayed within a table of the most recent readings collected called the “Latest Elevation Data” as seen below. If a particular well and accompanying information is shown in read, then there is a previous required monitoring event data point missing. This is a prompt for you to review records to either enter missing data or confirm that no measurement was collected.



Welcome: Jane Smith for Test Organization as Administrator

Home Notifications Manage Wells View Map Reports Administration My Profile Public View Sign Out

Well Elevation Measurements

System Information: Well Group elevation data saved successfully.

System message

Batch Upload

Elevation Data Import

Select Well Group *

Measurement Date *

Collecting/Co-op Agency *

Add Measurements

Latest Elevation Data

CASGEM ID	Local Well Number	Date	Military Time (PST)	NM	QM	Reading @RP	R	€						Me Me
377406N1212160W001	02S07E20R002M	08/12/2011	11:20		1	16.734	9							AS
378321N1222755W001	01S04W23E001M	08/21/2011	00:00			1.000	1.000							ES
355000N1203628W001	34N21S3876H123	06/12/2011	15:00			8.000	76.000		42.000	34,523.000	110.000	34,413.000		ST
405781N1242002W001	02N01W08B001H	05/29/2011	00:00			6.000	6.000	0.000	6.000	6.000	6.000	0.000		ST
353452N1163453W002	31S23W17P374W	12/16/2009	08:00	0										
372341N1179745W009	72N31E21B273S	12/16/2009	09:40		1	34.700	121.000	-86.300	31.000	11.000	117.300	-106.300		ES
372341N1179745W008	72N31E21B273S	12/16/2009	08:30		1	8.000	3.532	4.468	31.000	11.000	26.532	-15.532		ST
372341N1179745W006	72N31E21B273S	12/16/2009	11:54	0										
372341N1179745W007	72N31E21B273S	12/16/2009	13:50			5.435	2.432	3.003	31.000	11.000	27.997	-16.997		PG
372341N1179745W001	72N31E21B273S	12/16/2009	19:15			21.430	32.255	-10.825	31.000	11.000	41.825	-30.825		ES
372341N1179745W003	72N31E21B273S													
372341N1179745W004	72N31E21B273S													

Notice the latest elevation data row is displayed in red if a previous required measurement point is missing .

Manually Input Elevation Data for a Single Well

NOTE: To add a new reading to a single well, you must have previously added wells to your organization.

To add a reading, simply click on Groundwater Elevation Data under the Manage Wells tab. In the Latest Elevation Data table, click on the CASGEM ID of the well you want to add a new reading to.

Welcome: Jane Smith for Test Organization as Administrator

Home Notifications Manage Wells View Map Reports Administration My Profile Public View Sign Out

Well Elevation Measurements

Batch Upload
Elevation Data Import

Select Well Group *

Measurement Date *

Collecting/Co-op Agency *

Add Measurements

These fields are for adding multiple measurements collected on a single day for a particular well group, as described in the previous subsection.

Latest Elevation Data

CASGEM ID	Local Well Number	Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method
377406N1212160W001	02S07E20R002M	08/12/2010	18:20		1	13.2660	9.3280	3.9380	15	7.80	11.0620	-3.2620	AS
355000N1203628W001	34N21S3876H123	02/23/2011	13:45	2									

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Click on CASGEM ID link to view earlier groundwater elevation measurements and to add more data for a

You will be taken to the Measurement Details page for that well. Select the “Add New Reading” button.



Welcome: Jane Smith for Test Organization as Administrator

- [Home](#)
- [Notifications](#)
- [Manage Wells](#)
- [View Map](#)
- [Reports](#)
- [Administration](#)
- [My Profile](#)
- [Public View](#)
- [Sign Out](#)

Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
377406N1212160W001	02S07E20R002M	02S07E20R002M

[View Hydrograph](#)

Prior Readings

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Accuracy (ft)	Co-op Agency	CAS Mea
08/12/2010	18:20		1	13.2660	9.2830	3.9830	14.8790	7.80	10.8960	-3.0960	AS	0.01 Ft	Test Organization	Volu
11/09/2009	10:30		D	16.78	9	7.78	18.5740	11.6540	10.7940	0.8600	AS	0.001 Ft	Test Organization	Volu
11/17/2010	09:30		8	11.3430	8.5330	2.8100	17	11.3820	14.1900	-2.8080	ST	0.001 Ft	Test Organization	Volu
08/12/2011	11:20		1	16.7340	9.3240	7.4100	15.2350	11.3240	7.8250	3.4990	AS	0.01 Ft	Test Organization	Volu
08/01/2011	14:02		7	12.3850	9.3450	3.0400	15.3240	11.3250	12.2840	-0.9590	ES	0.1 Ft	Test Organization	Volu
08/05/2008	15:20		1	14.2180	9.2380	4.9800	15.2370	11.2340	10.2570	0.9770	ST	0.01 Ft	Test Organization	CAS
08/12/2010	18:20		1	13.2660	9.3280	3.9380	15	7.80	11.0620	-3.2620	AS	0.01 Ft	Test Organization	CAS
08/12/2010	18:20		1	13.2660	9.3280	3.9380	15	7.80	11.0620	-3.2620	AS	0.01 Ft	Test Organization	CAS

Click here

- [Add New Reading](#)
- [Cancel](#)

[Elevation Data Audit Trail](#)

The new section that pops up (see below) will allow you to input information about a new reading for a specific well. Once all information has been added, click Save to save the data and return to the previous screen.

Add New Reading

CASGEM ID 377406N1212160W001
Local Well ID 02S07E20R002M
State Well Number 02S07E20R002M

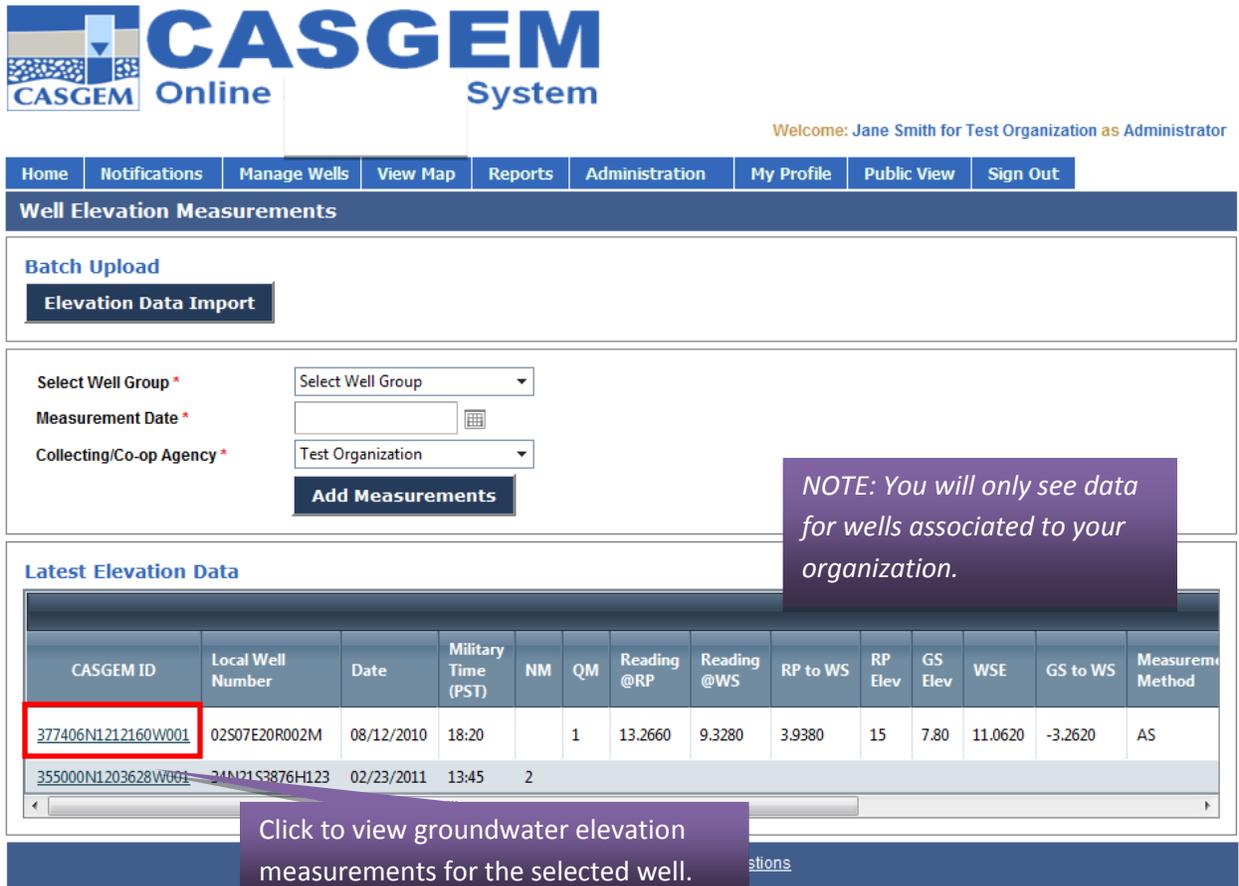
RP Elev *	<input type="text" value="Enter RP Elevation"/>	GS Elev *	<input type="text" value="Enter RP Elevation"/>
Date *	<input type="text"/>	Military Time (PST)	00 <input type="text"/> HH 00 <input type="text"/> MM
Reading @ RP *	<input type="text" value="Enter RP Reading"/>	RP to WS	<input type="text"/>
Reading @ WS *	<input type="text" value="Enter WS Reading"/>	WSE	<input type="text"/>
		GS to WS	<input type="text"/>
NM	<input type="text" value="Select NM Code"/>	QM	<input type="text" value="Select QM Code"/>
Measurement Method *	<input type="text" value="Select Method"/>	Measurement Accuracy *	<input type="text" value="Select Accuracy"/>
Collecting/Co-op Agency	<input type="text" value="Test Organization"/>	CASGEM/Voluntary	<input type="text" value="CASGEM"/>
Comments	<input type="text" value="Enter Comments"/>		

Upon saving, new reading will be displayed in the table of Prior Readings.

2.4.2.3 View and Edit Existing Elevation Data

View Existing Elevation Data for a Well

To view existing elevation data, first select the Groundwater Elevation Data subsection under the Manage Wells tab. At the bottom of the page, you will find a table of Latest Elevation Data. To view details of a specific well, click on the CASGEM ID hyperlink for that well.



CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

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Well Elevation Measurements

Batch Upload

Elevation Data Import

Select Well Group *

Measurement Date *

Collecting/Co-op Agency *

Add Measurements

NOTE: You will only see data for wells associated to your organization.

Latest Elevation Data

CASGEM ID	Local Well Number	Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method
377406N1212160W001	02S07E20R002M	08/12/2010	18:20		1	13.2660	9.3280	3.9380	15	7.80	11.0620	-3.2620	AS
355000N1203628W001	24N21S3876H123	02/23/2011	13:45	2									

Click to view groundwater elevation measurements for the selected well.

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Upon clicking on the CASGEM ID of a specific well, a page of prior groundwater elevation measurements will load that includes the CASGEM ID, Local Well ID, State Well Number, prior readings, and a link for viewing a hydrograph of the well selected.



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Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
377406N1212160W001	02S07E20R002M	02S07E20R002M

[View Hydrograph](#)

Prior Readings

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Accuracy (ft)	Co-op Agency	CASGEM/ Measurement
08/12/2010	18:20		1	13.2660	9.3280	3.9380	15	7.80	11.0620	-3.2620	AS	0.01 Ft	Test Organization	CASGEM

[Elevation Data Audit Trail](#)

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Edit Existing Elevation Data for a Well

To edit an existing reading, first follow the steps for viewing Elevation Data (to go there now, [click here](#)). To edit elevation data, start on the Measurement Details page for a specific well (see below). To edit a reading, click on the date hyperlink of that reading.



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Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
405781N1242002W001	02N01W08B001H	02N01W08B001H

View Hydrograph

Prior Readings

Date	Military Time (PST)	NM	QM	ISE	GS to WS	Measurement Method	Accuracy (ft)	Co-op Agency	CASG Meas					
02/28/2011	10:25			21.3240	7.3240	14.0000	3.5230	12.3450	-10.4770	22.8220	ST	0.01 Ft	Test Organization	CASG
02/28/2011	10:25			21.3240	7.3240	14.0000	3.5230	12.3450	-10.4770	22.8220	ST	0.01 Ft	Test Organization	CASG

Click on the Date of the reading you would like to edit.

- Add New Reading
- Cancel

[Elevation Data Audit Trail](#)

The new section that opens (see below) will allow the user to edit information about an existing reading for a specific well.

Edit Reading

CASGEM ID 405781N1242002W001
Local Well ID 02N01W08B001H
State Well Number 02N01W08B001H

IDs for the well being edited.

RP Elev * 3.523 GS Elev * 12.345
Date * 02/28/2011 Military Time (PST) 10 HH 25 MM
Reading @ RP * 21.324 RP to WS 14.000
Reading @ WS * 7.324 WSE -10.477
GS to WS 22.82
NM Select NM Code QM Select QM Code
Measurement Method * ST - Steel tape measu Measurement Accuracy * 0.01 Ft - Water level a
Collecting/Co-op Agency Test Organization CASGEM/Voluntary Voluntary
Comments Enter Comments
Reason for Edit/Delete * Enter Reason for Edit/Delete

Update Cancel Delete

Edit as many or as few of the fields as you wish. Don't forget to add a Reason for the Edit. Click Update.

Edit Reading

CASGEM ID 405781N1242002W001
Local Well ID 02N01W08B001H
State Well Number 02N01W08B001H

RP Elev * 3.523 GS Elev * 11.342
Date * 02/28/2011 Military Time (PST) 10 HH 25 MM
Reading @ RP * 22.371 RP to WS 15.047
Reading @ WS * 7.324 WSE -11.524
GS to WS 22.87
NM Select NM Code QM Select QM Code
Measurement Method * ST - Steel tape measu Measurement Accuracy * 0.01 Ft - Water level a
Collecting/Co-op Agency Test Organization CASGEM/Voluntary Voluntary
Comments Enter Comments
Reason for Edit/Delete * Initial measurements for GS Elev and Reading @ RP were wrong.

Update Cancel Delete

You MUST enter a reason when editing a measurement.

The newly updated information will be displayed in the table of Prior Readings (as shown below). You can click on the "Elevation data Audit Trail to view all revisions to data point selected.

CASGEM Online System

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Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
405781N1242002W001	02N01W08B001H	02N01W08B001H

[View Hydrograph](#)

Prior Readings

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Accuracy (ft)	Co-op Agency	CASG Meas
02/28/2011	10:25			21.3240	7.3240	14.0000	3.5230	12.3450	-10.4770	22.8220	ST	0.01 Ft	Test Organization	CASG
05/29/2011	00:00			6	6	0	6	6	6	0	ST	0.01 Ft	Test Organization	Volun
02/28/2011	10:25			22.3710	7.3240	15.0470	3.5230	11.3420	-11.5240	22.8660	ST	0.01 Ft	Test Organization	Volun

[Elevation Data Audit Trail](#)

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Click here to view what corrections have been made to the data since it was first entered.

Delete Existing Elevation Data

To delete a reading, go to the Measurement Details page of a well by clicking on a specific CASGEM ID from the Groundwater Elevation Data homepage. In the Prior Readings table, click on the date hyperlink of the reading you wish to delete.



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Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
378321N1222755W001	01S04W23E001M	01S04W23E001M

[View Hydrograph](#)

Prior Readings

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measureme Method
01/15/2011	08:30			7.3420	2.3430	4.9990	34.2440	6.3240	29.2450	-22.9210	ST
08/04/2010	11:30						230	6.0320	28.9390	-22.9070	ST
05/12/2008	11:15						360	5.5390	27.4770	-21.9380	PG
01/15/2011	08:30			7.3420	2.3430	4.9990	34.2440	6.3240	29.2450	-22.9210	ST
08/01/2011	04:00			99999999.9990	99999999.9990	0.0000	99999999.9990	99999999.9990	99999999.9990	0.0000	PG
08/21/2011	00:00			1	1	0	1	1	1	0	ES
08/01/2011	05:00			1	1	0	-123456789	-123456789	-123456789	0	PG
08/07/2011	00:00			-987654321	-123456789	-	864197532	1	864197533	-	AS

Add New Reading
Cancel

[Elevation Data Audit Trail](#)

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You will be presented with the Edit Reading page of the reading you have selected (as seen below).

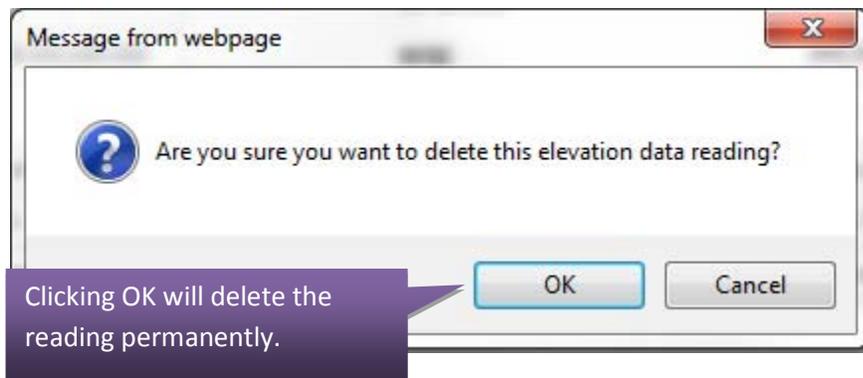
The screenshot shows the 'Edit Reading' form with the following fields and values:

- CASGEM ID: 378321N1222755W001
- Local Well ID: 01S04W23E001M
- State Well Number: 01S04W23E001M
- RP Elev *: 999,999,999.999
- GS Elev *: 999,999,999.999
- Date *: 08/01/2011
- Military Time (PST): 04 HH 00 MM
- Reading @ RP *: 999,999,999.999
- RP to WS: 0.000
- Reading @ WS *: 999,999,999.999
- WSE: 999,999,999.999
- GS to WS: 0.00
- QM: Select QM Code
- Measurement Accuracy *: 0.01 Ft - Water level a
- Collecting/Co-op Agency: Test Organization
- CASGEM/Voluntary: Voluntary
- Comments: Enter Comments
- Reason for Edit/Delete *: Enter Reason for Edit/Delete

Callouts in the image:

- A purple callout box points to the 'Reason for Edit/Delete' field with the text: "You must enter a reason for deleting here."
- A purple callout box points to the 'Delete' button with the text: "Upon entering a reason, click here to delete the reading."

When you have entered a reason for deleting, the system will show a confirmation message (as seen below). Click OK to delete.



View Hydrograph of Existing Well

To view a hydrograph of a specific well, click on the “View Hydrograph” link on the Elevation Data page for a specific well.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

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Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
377406N1212160W001	02S07E20R002M	02S07E20R002M

[View Hydrograph](#) Click here to view the well hydrograph.

Prior Readings

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Accuracy (ft)	Co-op Agency	CASGEM Mea
08/12/2010	18:20		1	13.2660	9.2830	3.9830	14.8790	7.80	10.8960	-3.0960	AS	0.01 Ft	Test Organization	Volu
11/09/2009	10:30		D	16.78	9	7.78	18.5740	11.6540	10.7940	0.8600	AS	0.001 Ft	Test Organization	Volu
11/17/2010	09:30		8	11.3430	8.5330	2.8100	17	11.3820	14.1900	-2.8080	ST	0.001 Ft	Test Organization	Volu
08/12/2011	11:20		1	16.7340	9.3240	7.4100	15.2350	11.3240	7.8250	3.4990	AS	0.01 Ft	Test Organization	Volu
08/01/2011	14:02		7	12.3850	9.3450	3.0400	15.3240	11.3250	12.2840	-0.9590	ES	0.1 Ft	Test Organization	Volu
08/05/2008	15:20		1	14.2180	9.2380	4.9800	15.2370	11.2340	10.2570	0.9770	ST	0.01 Ft	Test Organization	CASG

[Elevation Data Audit Trail](#)

The hydrograph, which includes information from previous readings, will be displayed within the same page.

How to read the hydrograph:

- » One point will appear for each reading.
- » If more than one reading exists within the same year, they will be shown on top of one another.
- » Readings that are done on time (within 9-month period) and that do not have a “No Measurement (NM)” code, will be connected by a line within the hydrograph.
- » Questionable Measurement readings will appear as red dots (as seen below)



Welcome: Jane Smith for Test Organization as Administrator

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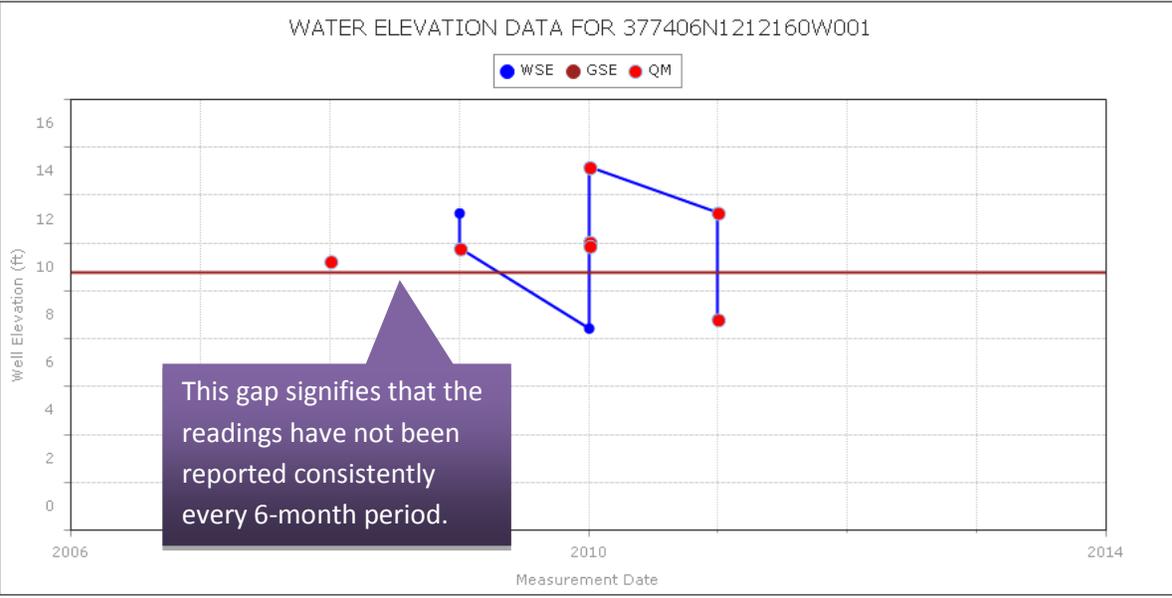
Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
377406N1212160W001	02S07E20R002M	02S07E20R002M

[View Hydrograph](#)

WATER ELEVATION DATA FOR 377406N1212160W001

● WSE ● GSE ● QM



This gap signifies that the readings have not been reported consistently every 6-month period.

Prior Readings

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Accuracy (ft)	Co-op Agency	CASGEM Measur
08/12/2010	18:20		1	13.266	9.283	3.983	14.879	7.800	10.896	-3.096	AS	0.01 Ft	Test Organization	Voluntar
11/09/2009	10:30		D	16.780	9.000	7.780	18.574	11.654	10.794	0.860	AS	0.001 Ft	Test Organization	Voluntar

Elevation Data Audit Trail

To view the history of the Elevation Data for your specific well, you can simply click on the Elevation Data Audit Trail arrow at the bottom of the Elevation Data page for a specific well.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

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Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
377406N1212160W001	02S07E20R002M	02S07E20R002M

[View Hydrograph](#)

Prior Readings

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Accuracy (ft)	Co-op Agency
08/12/2010	18:20		1	13.2660	9.2830	3.9830	14.8790	7.80	10.8960	-3.0960	AS	0.01 Ft	Test Organization
11/09/2009	10:30		D	16.78	9	7.78	18.5740	11.6540	10.7940	0.8600	AS	0.001 Ft	Test Organization
11/17/2010	09:30		8	11.3430	8.5330	2.8100	17	11.3820	14.1900	-2.8080	ST	0.001 Ft	Test Organization
08/12/2011	11:20		1	16.7340	9.3240	7.4100	15.2350	11.3240	7.8250	3.4990	AS	0.01 Ft	Test Organization
08/01/2011	14:02		7	12.3850	9.3450	3.0400	15.3240	11.3250	12.2840	-0.9590	ES	0.1 Ft	Test Organization
08/05/2008	15:20		1	14.2180	9.2380	4.9800	15.2370	11.2340	10.2570	0.9770	ST	0.01 Ft	Test Organization

Click to view the Data Audit Trail [▶ Elevation Data Audit Trail](#)

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This will cause the arrow to point down and open a table showing a history of all the data entered for this specific well.

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Manage Wells : Groundwater Elevation Data : Measurement Details

CASGEM ID	Local Well ID	State Well Number
377406N1212160W001	02S07E20R002M	02S07E20R002M

[View Hydrograph](#)

Prior Readings

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Accuracy (ft)	Co-op Agency
08/12/2010	18:20		1	13.2660	9.2830	3.9830	14.8790	7.80	10.8960	-3.0960	AS	0.01 Ft	Test Organization
11/09/2009	10:30		D	16.78	9	7.78	18.5740	11.6540	10.7940	0.8600	AS	0.001 Ft	Test Organization
11/17/2010	09:30		8	11.3430	8.5330	2.8100	17	11.3820	14.1900	-2.8080	ST	0.001 Ft	Test Organization
08/12/2011	11:20		1	16.7340	9.3240	7.4100	15.2350	11.3240	7.8250	3.4990	AS	0.01 Ft	Test Organization
08/01/2011	14:02		7	12.3850	9.3450	3.0400	15.3240	11.3250	12.2840	-0.9590	ES	0.1 Ft	Test Organization
08/05/2008	15:20		1	14.2180							ST	0.01 Ft	Test Organization

Clicking the arrow again will close the Elevation Data Audit Trail.

Add New Reading Cancel [Elevation Data Audit Trail](#)

Audit Trail for 377406N1212160W001

Change Status	Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Accuracy (ft)	C A
Edit	11/09/2009	10:30		D	16.78	9.6540	7.1260	19.3240	11.6540	12.1980	-0.5440	AS	0.001 Ft	T C
Edit	08/12/2010	18:20		1	13.2660	9.2830	3.9830	15.24	7.80	11.2570	-3.4570	AS	0.01 Ft	T C
Edit	08/12/2010	18:20		1	13.2660	9.3280	3.9380	15	7.80	11.0620	-3.2620	AS	0.01 Ft	T C
Delete	08/22/2011	00:00		2										

2.4.3 Manage Well Groups

To manage well groups click on the “Manage Well Groups” link on the “Manage Wells” tab pull down menu on the home page (shown below).

CASGEM Online System

Welcome: UAT User 1 for UAT Organization 1 as Administrator

Home | Notifications | **Manage Wells** | View Map | Reports | Administration | My Profile | Public View | Sign Out

Home | Groundwater Elevation Data | Well Information | **Manage Well Groups**

Welcome to the Statewide Groundwater Elevation Monitoring (CASGEM) Online System

The CASGEM Online System now allows you to:

- Register as an “Administrator” for a Monitoring Entity to maintain the Monitoring Entity’s profile and create and maintain user accounts for yourself and collaborating agencies.
- Submit a Notification that your organization intends to assume the role of Monitoring Entity for a California groundwater basin, sub-basin, or portion of a sub-basin, including:
 - Organization details and contact information
 - The monitoring entity authority that best describes you (Water Code Section 10927)
 - GIS shapefiles that define the boundary of the area you intend to monitor
 - A groundwater management plan and/or monitoring plan
 - CASGEM well construction details and location information
- Submit groundwater elevation data (including batch uploads)
- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data in tabular format
- View hydrographs for single wells and compare hydrographs for multiple wells
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

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11/15/2011

This subsection of the User guide includes the following topics:

- 2.4.3.1 [Creating a New Well Group](#)
- 2.4.3.2 [Adding Wells to a Data Entry Well Group](#)
- 2.4.3.3 [Adding Wells to a Reporting Well Group](#)
- 2.4.3.4 [Removing Wells from a Well Group](#)
- 2.4.3.5 [Editing Well Groups](#)
- 2.4.3.6 [Deleting Well Groups](#)

Each of these processes is described in detail below.

2.4.3.1 Creating a New Well Group

To create a new Well Group, select Create New Well Group from the Manage Well Groups home page.

The screenshot shows the CASGEM Online System interface. At the top, there is a navigation menu with items: Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. Below the menu is a header for 'Manage Well Groups'. A button labeled 'Create New Well Group' is highlighted with a red border. Below this is a section titled 'Well Groups' which contains a table. The table has columns: Edit, Add Wells, Delete, Well Group Name, Group Type, Description, and Co-operating Agency. The table is currently empty, with the text 'No records to display.' below it. At the bottom of the page, there are links for 'Back to Top', 'Help', and 'Comments or Suggestions'.

You will be taken to the “Create Well Group” screen where you must specify a Well Group Name, Type, and Description. Once the form is filled out, click the Create Well Group button to submit your information. Upon clicking Save, the new Well Group will be added to the system. Depending on the type of Well Group added, adding wells will appear differently. Please refer to the sections for adding wells below for more detail.

The screenshot shows the CASGEM Online System interface for creating a new well group. The page title is 'Create Well Group'. Below the navigation menu, there is a section titled 'Well Group Information'. This section contains three form fields: 'Well Group Name *' with a text input field containing 'Enter Well Group Name', 'Well Group Type *' with a dropdown menu containing 'Select Well Group Type', and 'Well Group Description *' with a text input field containing 'Enter Well Group Description'. Below these fields are two buttons: 'Save' and 'Cancel'. A callout box with a purple background and white text points to the form fields, containing the text: 'Enter Well Group Name, Type and Description, and click “Save” to create a Well Group.' At the bottom of the page, there are links for 'Back to Top', 'Help', and 'Comments or Suggestions'.

2.4.3.2 Adding Wells to a Data Entry Well Group

Upon saving the well group information, you are returned to the “Manage Well Groups” screen with a list of created Well Groups to add, edit or delete wells. Select the “Add Wells” link to view a screen for the Well Group selected with a list of your CASGEM monitoring wells.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

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Manage Well Groups

Create New Well Group

Well Groups

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.

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You can then check the boxes to the left of the wells associated with Well Group you just created and hit the "Add" button at the bottom.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

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Create Well Group

Well Group Information

Well Group Name *

Well Group Type *

Well Group Description *

Only wells that are already associated to the user's organization can be added to a Data Entry Well Group.

<input type="checkbox"/>	CASGEM Well ID	Local Well Designation	State Well Number	Basin	Portion	longitude	latitude	View On Map
<input type="checkbox"/>	372341N1179745W008	72N31E21B273S		Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input type="checkbox"/>	372341N1179745W007	72N31E21B273S		Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input type="checkbox"/>	372341N1179745W009	72N31E21B273S		Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input type="checkbox"/>	372341N1179745W006	72N31E21B273S		Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input checked="" type="checkbox"/>	372341N1179745W005	72N31E21B273S		Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input checked="" type="checkbox"/>	372341N1179745W003	72N31E21B273S		Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input type="checkbox"/>	372341N1179745W004	72N31E21B273S		Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input checked="" type="checkbox"/>	353452N1163453W002	31S23W17P374W	31S23W17P374W	Eastern San Joaquin		116.345320	35.3452	View On Map
<input type="checkbox"/>	372341N1179745W002	72N31E21B273S		Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input type="checkbox"/>	353452N1163453W001	31S23W17P374W		Eastern San Joaquin		116.345320	35.3452	View On Map
<input checked="" type="checkbox"/>	372341N1179745W001	72N31E21B273S	72N31E21B273S	Half Moon Bay Terrace		117.974523	37.234110	View On Map
<input type="checkbox"/>	333210N1218130W001	23N92W22P273M	23N92W22P273M			121.8130	33.3210	View On Map
<input type="checkbox"/>	355000N1203628W001	34N21S3876H123	34N21E228H12H			120.362780	35.50	View On Map
<input type="checkbox"/>	405781N1242002W001	02N01W08B001H	02N01W08B001H			124.2002	40.5781	View On Map
<input type="checkbox"/>	378321N1222755W001	01S04W23E001M	01S04W23E001M			122.2755	37.8321	View On Map
<input type="checkbox"/>	377406N1212160W001	02S07E20R002M	02S07E20R002M			121.2160	37.7406	View On Map

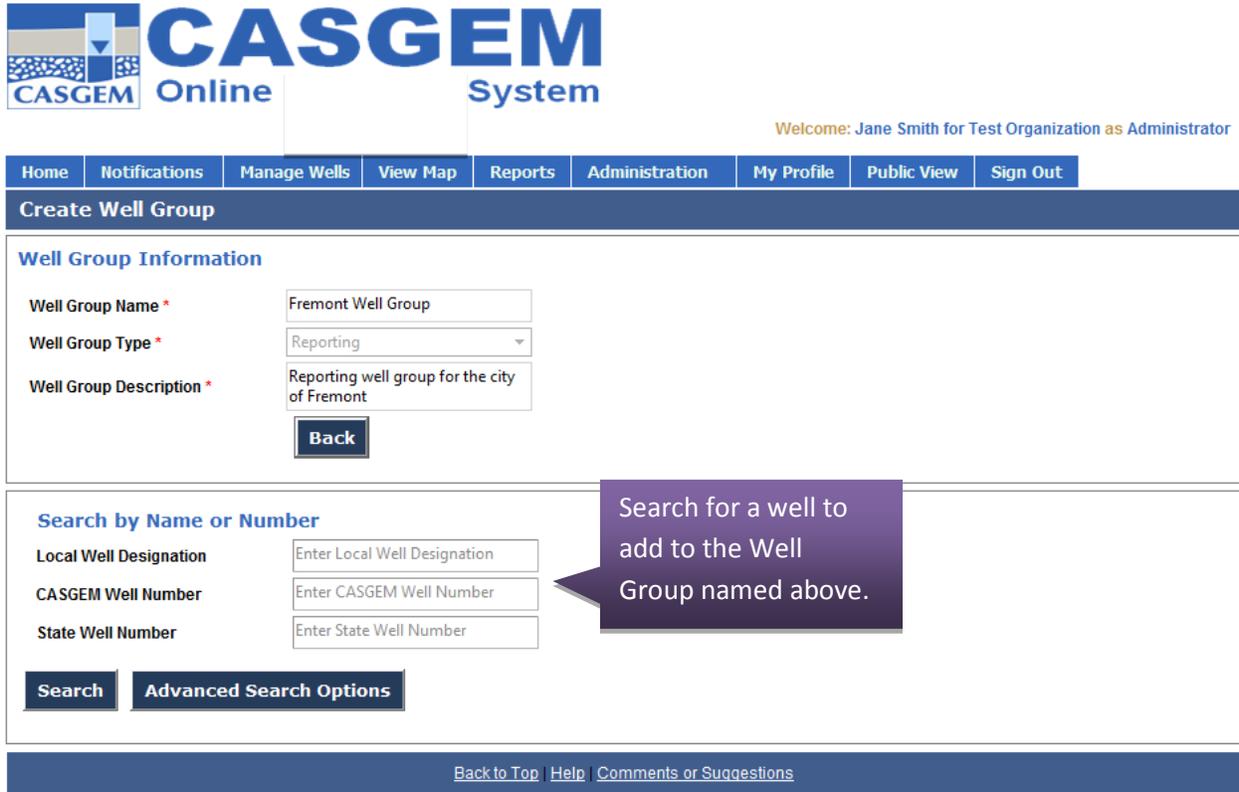
Upon clicking Add, the wells will be added to the Well Group.

[Back to Top](#) | [Help](#) | [Commer](#)

2.4.3.3 Adding Wells to a Reporting Well Group

If the “Reporting” Well Group Type is selected, users can add wells by searching for wells right on the Add Wells page of the Manage Wells tab. This page appears right after creating a new Well Group.

To search for wells, fill out the Search by Name or Number form. To search by different criteria, select the Advanced Search Options button.



CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Create Well Group

Well Group Information

Well Group Name *

Well Group Type *

Well Group Description *

Search by Name or Number

Local Well Designation

CASGEM Well Number

State Well Number

Search for a well to add to the Well Group named above.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

The Advanced Search Options is shown below.

Create Well Group

Well Group Information

Well Group Name *

Well Group Type *

Well Group Description *

Search by Name or Number

Local Well Designation

CASGEM Well Number

State Well Number

Enter all possible search attributes and then click "Search".

Search by Attributes

Hydrological Region <input type="text" value="Please select a basin region"/>	Well Use <input type="text" value="Select Well Use"/>
Basin Name and Number <input type="text" value="Please select a basin"/>	Well Status <input type="text" value="Please select well status"/>
Regional Office <input type="text" value="Select Regional Office"/>	Completion Type <input type="text" value="Select Completion Type"/>
County <input type="text" value="Please select a county"/>	

Once your search is submitted, the wells that fit your criteria will show up in a table below the Search forms. To add wells from your search, check the box next to each well you would like to add to your Well Group. When you are finished selecting Wells, click Save.

Search by Attributes

Hydrological Region: Well Use:

Basin Name and Number: Well Status:

Regional Office: Completion Type:

County:

Search Results

To select all wells, click here.

<input type="checkbox"/>	Local Well Designation	Basin	Portion	State Well Number	CASGEM Well ID	longitude	latitude	View On Map
<input type="checkbox"/>	01N01W36B233H				320000N1150000W001	115	32	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W03E002S	344567N1191792W001	119.1792	34.4567	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W04Q001S	344511N1191845W001	119.1845	34.4511	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W05D003S	344594N1192112W001	119.2112	34.4594	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W05H004S	344558N1191992W001	119.1992	34.4558	View On Map
<input type="checkbox"/>				04N22W05L001S	345742N1192065W001	119.2065	34.5742	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W05L008S	344558N1192065W001	119.2065	34.4558	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W05M001S	344544N1192142W001	119.2142	34.4544	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W06D001S	344606N1192312W001	119.2312	34.4606	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W06E004S	344592N1192284W001	119.2284	34.4592	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W06F002S	344569N1192276W001	119.2276	34.4569	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W06G001S	344586N1192201W001	119.2201	34.4586	View On Map
<input checked="" type="checkbox"/>		Ojai Valley		04N22W06K012S	344553N1192231W001	119.2231	34.4553	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W06Q001S	344486N1192237W001	119.2237	34.4486	View On Map
<input checked="" type="checkbox"/>		Ojai Valley		04N22W07B002S	344472N1192234W001	119.2234	34.4472	View On Map
<input checked="" type="checkbox"/>		Ojai Valley		04N22W07C005S	344461N1192256W001	119.2256	34.4461	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W07G001S	344422N1192253W001	119.2253	34.4422	View On Map
<input type="checkbox"/>		Ojai Valley		04N22W09N001S	344350N1191942W001	119.1942	34.4350	View On Map
<input type="checkbox"/>				04N22W10K002S	344386N1191687W001	119.1687	34.4386	View On Map
<input type="checkbox"/>	sd			04N22W10R001S	344361N1191640W001	119.1640	34.4361	View On Map

You may select multiple wells simultaneously

When you are finished selecting wells, click "Add".

Page size: 20 43917 items in 2196 pages

Add **Cancel**

[Comments or Suggestions](#)

2.4.3.4 Removing Wells from a Well Group

To remove a well from a Well Group, select the Manage Well Groups option from the Manage Wells tab. Underneath Well Groups, select Edit for the Well Group you wish to edit.

The screenshot displays the CASGEM Online System interface. At the top left is the CASGEM logo with the text 'CASGEM Online System'. To the right, a welcome message reads 'Welcome: Jane Smith for Test Organization as Administrator'. Below this is a navigation menu with buttons for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The 'Manage Well Groups' section is active, featuring a 'Create New Well Group' button. Below this is a 'Well Groups' table with columns for Add Wells, Edit Well Group, Delete Well Group, Well Group Name, Group Type, and Description. The 'Edit' button for the 'Fremont Well Group' is highlighted with a red box. At the bottom of the interface, there are links for 'Back to Top', 'Help', and 'Comments or Suggestions'.

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.

A table, which shows the wells included in the selected Well Group, will appear at the bottom of the page.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Well Groups

Create New Well Group

Well Groups

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.

Edit Well Group

Well Group Name: Fremont Well Group

Well Group Type: Reporting

Well Group Description: Reporting well group for the city of Fremont.

Update Cancel

Existing wells in selected Well Group.

<input type="checkbox"/>	State Well Number	CASGEM Station ID	Most Recent Reading Date	Latitude	Longitude
<input type="checkbox"/>		372341N1179745W007		37.234110	117.974523
<input type="checkbox"/>	23N92W22P273M	333210N1218130W001		33.3210	121.8130
<input type="checkbox"/>		372341N1179745W006		37.234110	117.974523
<input type="checkbox"/>		372341N1179745W005		37.234110	117.974523

Remove Wells

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

To remove wells, simply check the checkbox next to the Wells you want to remove. You may select multiple wells at this time. When you are finished selecting wells, click on Remove Wells.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Well Groups

[Create New Well Group](#)

Well Groups

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.

Edit Well Group

Well Group Name: Fremont Well Group

Well Group Type: Reporting

Well Group Description: Reporting well group for the city of Fremont.

[Update](#) [Cancel](#)

<input type="checkbox"/>	State Well Number	CASGEM Station ID	Most Recent Reading Date	Latitude	Longitude
<input type="checkbox"/>		372341N1179745W007		37.234110	117.974523
<input type="checkbox"/>	23N92W22P273M	333210N1218130W001		33.3210	121.8130
<input checked="" type="checkbox"/>		372341N1179745W006		37.234110	117.974523
<input type="checkbox"/>		372341N1179745W005		37.234110	117.974523

[Remove Wells](#)

Click here when you have finished selecting wells to be removed.

Multiple wells can be selected.

The system will show a message asking you to confirm the selection. Select OK.

Message from webpage

Are you sure you want to remove the selected wells from this well group?

[Click here](#)

[OK](#) [Cancel](#)

The page will refresh showing a confirmation that the well has been removed.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Well Groups

System Information: Wells removed from the well group successfully.

Create New Well Group

Confirmation message

Well Groups

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.

Edit Well Group

Well Group Name: Fremont Well Group

Well Group Type: Reporting

Well Group Description: Reporting well group for the city of Fremont.

Update **Cancel**

Notice that the removed well is no longer showing up in the table.

<input type="checkbox"/>	State Well Number	CASGEM Station ID	Most Recent Reading Date	Latitude	Longitude
<input type="checkbox"/>	23N92W22P273M	333210N1218130W001		33.3210	121.8130
<input type="checkbox"/>		372341N1179745W007		37.234110	117.974523
<input type="checkbox"/>		372341N1179745W005		37.234110	117.974523

Remove Wells

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

2.4.3.5 Editing Well Groups

To edit Well Group information, click on Manage Well Groups under the Manage Wells tab. You will see the screen shown below. To edit a specific well group, click on the Edit link.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | **Manage Wells** | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Well Groups

Create New Well Group

Well Groups

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

An Edit Well Group section will expand. Make your changes and then click Update.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | **Manage Wells** | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Well Groups

Create New Well Group

Well Groups

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.

Edit Well Group

Well Group Name:

Well Group Type:

Well Group Description:

[Update](#) [Cancel](#)

State Well Number	CASGEM Station ID	Most Recent Reading Date	Latitude	Longitude
No records to display.				

[Remove Wells](#)

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

2.4.3.6 Deleting Well Groups

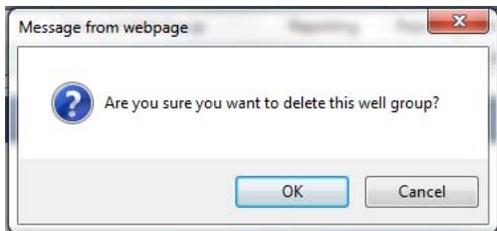
To delete a Well Group, select the Manage Well Groups option from the Manage Wells tab. Underneath Well Groups, select Delete for the Well Group you wish to delete.

NOTE: Wells/Elevation Data will not be deleted; only the Well Group is deleted.

The screenshot shows the CASGEM Online System interface. At the top, there is a navigation menu with options: Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. Below the menu is a header for 'Manage Well Groups'. A callout box with a purple background and white text says 'Click "Delete" to delete a Well Group.' The main content area displays a table of Well Groups. The table has columns for 'Add Wells', 'Edit Well Group', 'Delete Well Group', 'Well Group Name', 'Group Type', and 'Description'. There are two rows of data. The first row is for 'Fremont Well Group' (Reporting) and the second is for 'New Well Group' (Data Entry). The 'Delete' button for the 'New Well Group' is highlighted with a red box.

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.
Add Wells	Edit	Delete	New Well Group	Data Entry	This is a new data entry well group.

A message asking you to confirm that you want to delete will pop up. Click OK to confirm.



If the well group deletion is successful, you will be shown the initial Manage Well Groups page and a confirmation message.

The screenshot displays the CASGEM Online Submittal System interface. At the top left is the CASGEM logo. To its right, the text "CASGEM Online Submittal System" is displayed. Below the logo, a navigation menu includes links for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. A welcome message reads "Welcome: Jane Smith for Test Organization as Administrator". The main heading is "Manage Well Groups". Below this, a system information message states "System Information: Well Group deleted successfully." A callout box points to this message with the text "Confirmation message." Below the message is a "Create New Well Group" button. The "Well Groups" section contains a table with the following data:

Add Wells	Edit Well Group	Delete Well Group	Well Group Name	Group Type	Description
Add Wells	Edit	Delete	Fremont Well Group	Reporting	Reporting well group for the city of Fremont.

At the bottom of the page, there are links for "Back to Top", "Help", and "Comments or Suggestions". A callout box at the bottom left of the screenshot contains the text "Well Group no longer shows up in table."

2.5 GIS Functionality

The CASGEM OS is enabled with a Geographic Information System (GIS) to provide mapping capability for the associated database. Section 2.5 includes basic instructions on how to operate the GIS, as well as instruction on operations that are unique to the CASGEM OS. Topics covered in this section include:

- 2.5.1 [View Map / GIS Viewer](#)
- 2.5.2 [GIS Minimum Computer Requirements](#)
- 2.5.3 [Initial Map Layout Presentation](#)
- 2.5.4 [Top Bar Functions](#)
- 2.5.5 [CASGEM Search](#)
 - 2.5.5.1 [Using the Search Menu to find Wells](#)
 - 2.5.5.2 [Export Search Results to Excel](#)
 - 2.5.5.3 [Using the Search Menu to find Basin Notifications](#)
 - 2.5.5.4 [Using the Search Menu to find Unmonitored Basins](#)
 - 2.5.5.5 [Using the Search Menu to find Overlapped Basin Notifications](#)
- 2.5.6 [Layer Control](#)
 - 2.5.6.1 [Using the Map Layer Control Menu](#)
 - 2.5.6.2 [Using the Layer Transparency Tool](#)
- 2.5.7 [Identify](#)
 - 2.5.7.1 [Working with the Identify Menu](#)
 - 2.5.7.2 [Identifying Features by Point Selection](#)
 - 2.5.7.3 [Identifying Features by Polyline Selection](#)
 - 2.5.7.4 [Identifying Features by Rectangle Selection](#)
 - 2.5.7.5 [Identifying Features by Polygon Selection](#)
- 2.5.8 [Draw and Measure](#)
 - 2.5.8.1 [Measuring the Distance between Two Wells](#)
 - 2.5.8.2 [Using the Text Tool](#)
- 2.5.9 [Print](#)
- 2.5.10 [Elevation Data Hydrograph](#)
 - 2.5.10.1 [Single Well Hydrograph](#)
 - 2.5.10.2 [Multiple Wells Hydrograph](#)
- 2.5.11 [Quick Find for Wells and Basins](#)
 - 2.5.11.1 [Searching for Wells using Quick Find](#)
 - 2.5.11.2 [Searching for Basins](#)
- 2.5.12 [Help Icon](#)
- 2.5.13 [Base Map Toggle](#)
- 2.5.14 [Overview Map](#)
- 2.5.15 [Scale Bar and Coordinates](#)
- 2.5.16 [Navigation](#)

2.5.1 View Map / GIS Viewer

The GIS Viewer provides the following functionalities:

- Enables users to spatially view the different geographic features related to the CASGEM Program. These features include Groundwater basins, Basin Notifications, monitored wells, and administrative boundaries.
- Enables users to search for Basin Notifications, monitored wells, unmonitored basins, and overlapped Basin Notifications, based on single or multiple search criteria. Results of searches are shown in tabular format as well as on a GIS map.

Note: The GIS Viewer does not verify that the Monitoring Entity boundaries or wells are geographically located in the correct basin.

The following is a list of the major components of the GIS viewer, which are discussed in detail in upcoming sections:

- I. Initial Map Layout Presentation
- II. Top Bar
- III. Base Map Toggle
- IV. Toggle and Scroll button
- V. Overview Map
- VI. Scale Bar and Coordinates
- VII. Navigation
- VIII. Search Results

2.5.2 GIS Minimum Computer Requirements

The CASGEM web application has been designed to work most efficiently on computers that have the following minimum specifications:

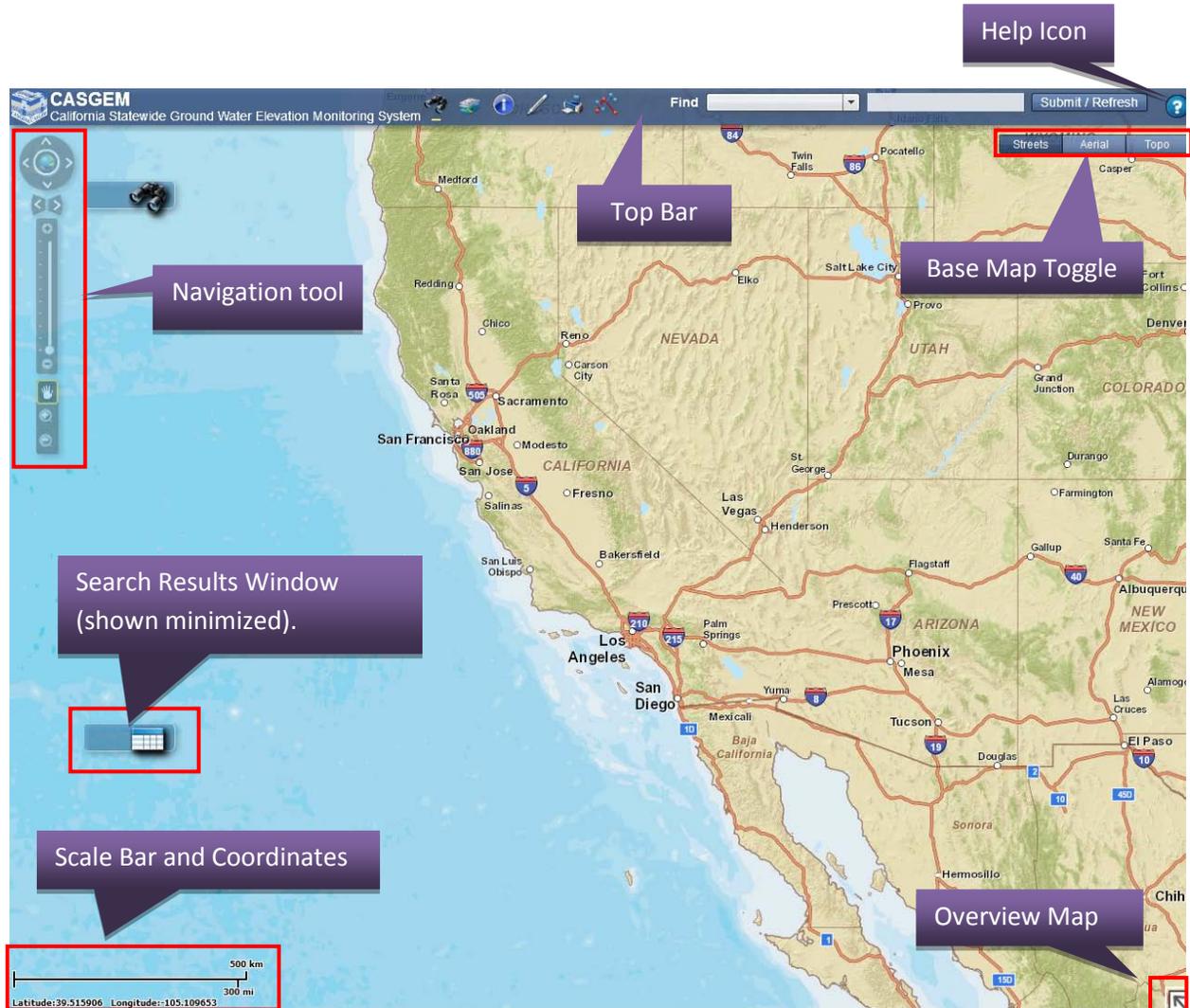
Processor:	Dual Core - 1.67 GHz CPU
Memory:	1 GB RAM
Operating System:	Windows XP or more recent
Browser:	Internet Explorer 8 with Adobe Flash Player (v10.1 or higher)

If your system does not meet these specifications, the application might not perform optimally.

Note: Make sure that all pop-up blockers are turned-off, including those that are part of Google, Yahoo, MSN or similar toolbars.

2.5.3 Initial Map Layout Presentation

This is the default page of the GIS Map viewer which opens up within a new window when the “View Map” tab in the CASGEM application page is clicked.



2.5.4 Top Bar Functions

The Top Bar is located on the top left of the Map View screen.

- The following menu icons are present in the Top Bar:
 1. CASGEM Search
 2. Layer Control
 3. Identify
 4. Draw & Measure
 5. Save and Print
 6. Elevation Data Hydrograph
 7. Quick Find for Wells and Basins
 8. Help Icon

- When clicked, these menu icons open separate related windows on-screen, which can then be minimized, moved or hidden, using the controls on the map view.
- The individual menu items are described in detail in the following sections.



The Top Bar can be minimized or maximized by clicking on the cube with the CASGEM logo on the far left of the Top Bar.



Upon clicking on the CASGEM logo, the Top Bar is hidden. Click on the logo again to re-expand the Top Bar.



2.5.5 CASGEM Search

The CASGEM Search menu provides users with the ability to search for Monitored Wells, Basin Notifications, Unmonitored Basins, and Overlapped Basin Notifications, based on various search criteria defined by the user in the search window. Topics covered in this subsection include:

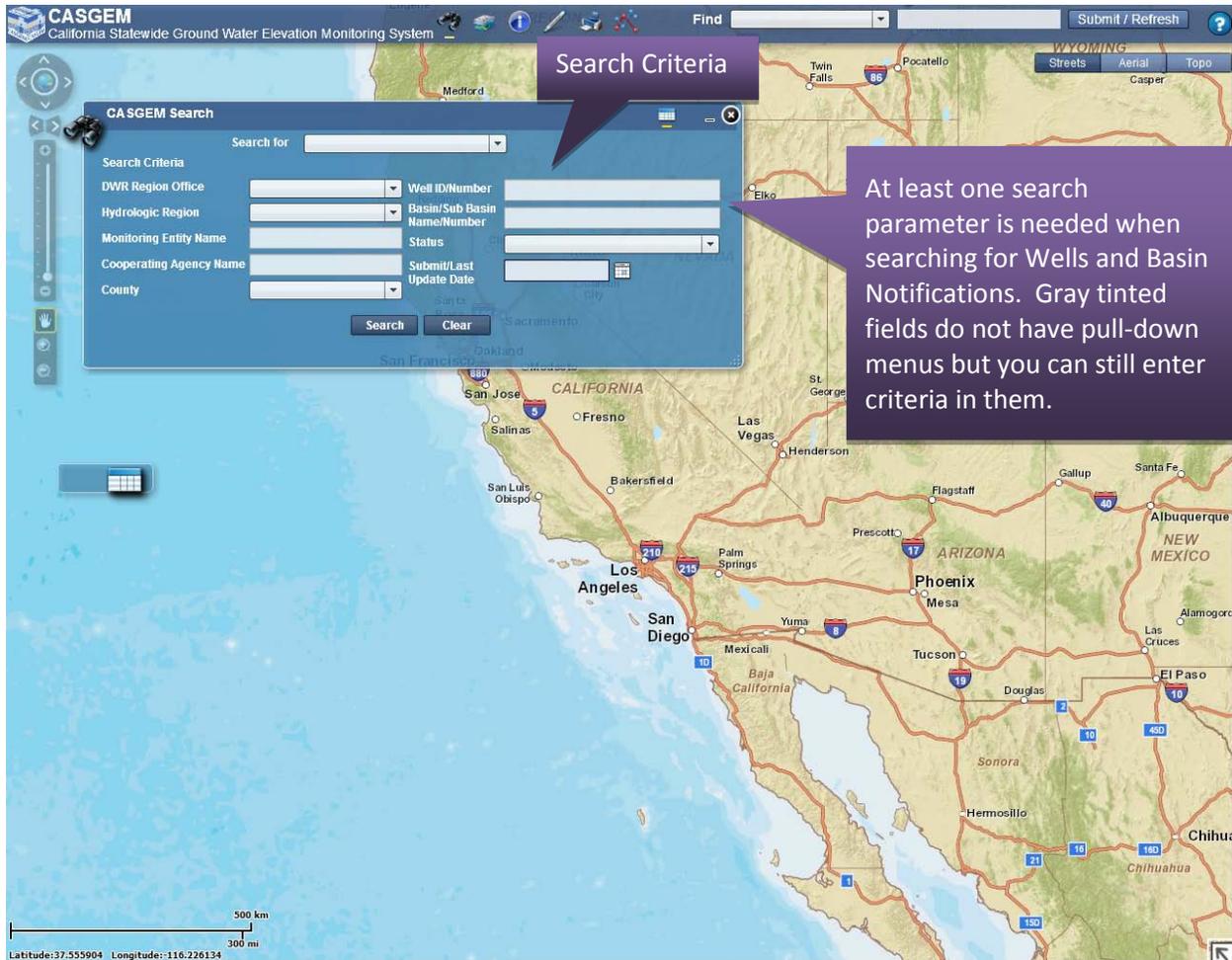
- 2.5.5.1 [Using the Search Menu to Find Wells](#)
- 2.5.5.2 [Exporting Search Results to Excel](#)
- 2.5.5.3 [Using the Search Menu to Find Basin Notifications](#)
- 2.5.5.4 [Using the Search Menu to Find Unmonitored Basins](#)
- 2.5.5.5 [Using the Search Menu to Find Overlapped Basin Notifications](#)

To access the CASGEM Search widget, click on the Search icon on the Top Bar. The Search Menu will pop up and display its dialog window on the map.

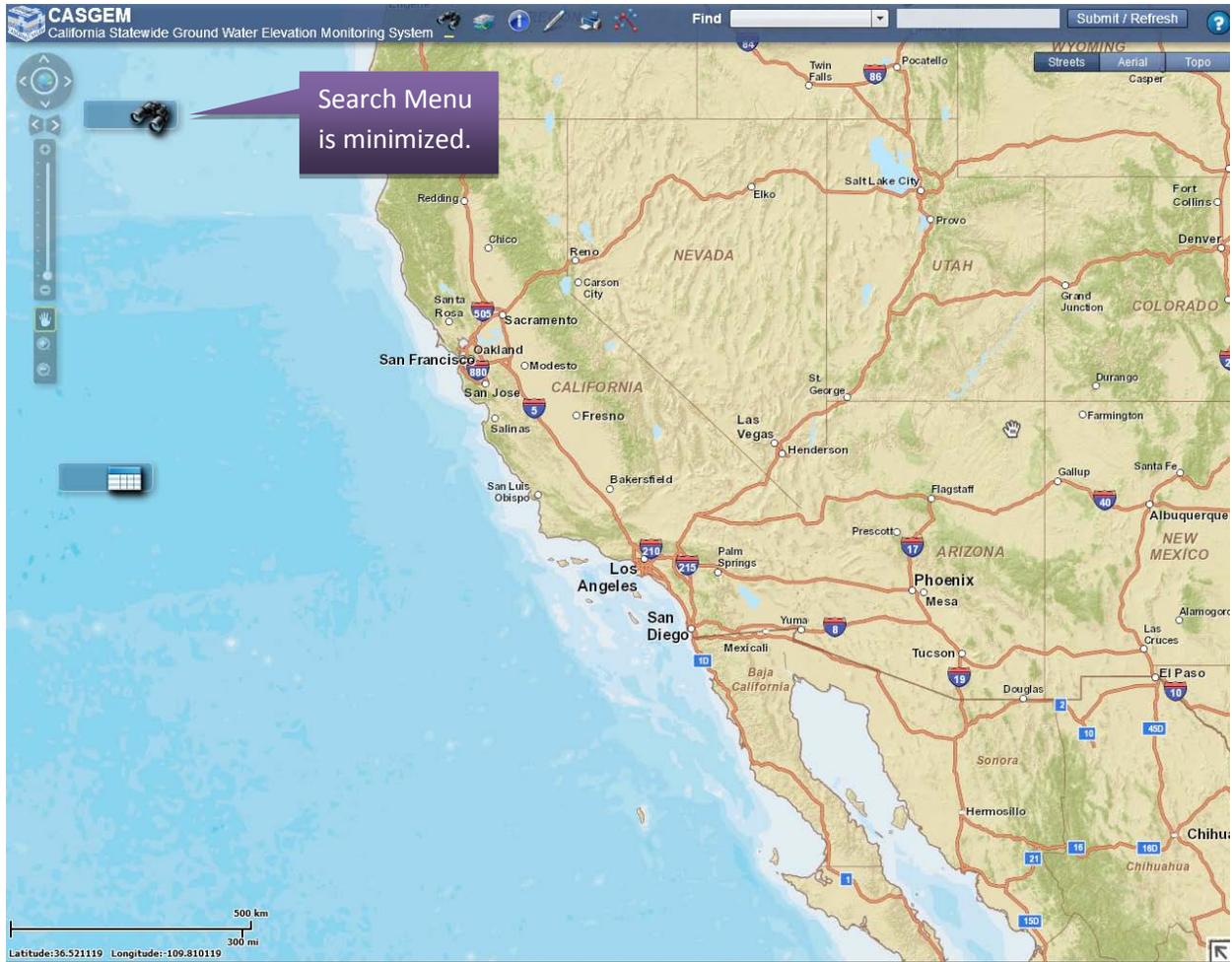


Listed below are some of the characteristics of the CASGEM Search Menu:

- The search can be simple, based on one parameter, or advanced, based on multiple criteria.
 - CASGEM Search criteria are not case sensitive and users can do wild card searches.
 - The CASGEM Search parameter for Submit/Last update date has a calendar to assist the user in selecting a date.
 - Any portion of a valid character string can be entered into the various search fields.
- Upon submitting a search:
 - The Search Results table will open providing the search results in tabular format.
 - The search results will be displayed graphically on the map.



- To minimize the Search Menu, click on the minimize button on the CASGEM Search Menu window dialog. The Search Menu will minimize on the map viewer as shown in the picture below. Clicking on the minimized icon again will re-open the search dialog window on the map.



2.5.5.1 Using the Search Menu to Find Wells

- Upon opening the CASGEM Search Menu, select “Wells” in the “search for” drop-down menu.
- Select your search criteria and click on the Search button.
 - The Search Results table will open, displaying the Well Search Results. **Note: If a well is monitored by more than one agency it will show up twice in the search results.**
 - The results will also be portrayed on the map.

NOTE: The mapped wells cannot be seen due to the CASGEM Search widget. To minimize, click here.

The screenshot displays the CASGEM Search interface. The search criteria are set to 'Wells' and 'ALAMEDA' county. The search results table is shown below the search widget.

Local Well Number	State Well Number	CASGEM Station ID	Monitoring Entity	Well Name/Number	Well Use	CASGEM Well	Total Well Depth
02S03W10G001	02S03W10G001	377737N122476		East Bay Plain-2	Irrigation	No	Confidential
03S03W14K002	03S03W14K002	376679N122457		East Bay Plain-2	Industrial	No	Confidential
01S04W11K001	01S04W11K001	378515N122269		East Bay Plain-2	Irrigation	No	Confidential

- To properly view the results displayed on the map, it will help to minimize the CASGEM Search window. This is done by clicking on the hyphen icon in the upper right hand corner of the CASGEM Search window. The screenshot below displays the CASGEM Search window minimized and the Well Search Results still open.

Click on icon to expand.

Search results can now be seen.

The Search Results table can also be minimized by clicking here.

Local Well Number	State Well Number	CASGEM Station ID	Monitoring Entity	Basin Name Num	Well Use	CASGEM Well	Total Well Depth
02S03W10G001	02S03W10G001	377737N122176		East Bay Plain-2	Irrigation	No	Confidential
03S03W14K002	03S03W14K002	376679N122157		East Bay Plain-2	Industrial	No	Confidential
01S04W11K001	01S04W11K001	378515N122269		East Bay Plain-2	Irrigation	No	Confidential

500 km
300 mi
Latitude: 41.960489 Longitude: -120.962613

- To view details of the search results, it may help to re-size the Well Search Results table. That can be done by dragging the lower right hand corner. The table can also be re-positioned by clicking and holding the outline of the table. Moving your mouse will then move the table. Below, the Search Results table has been re-sized and moved so more of the search results can be seen.

The screenshot shows the CASGEM (California Statewide Groundwater Elevation Monitoring System) interface. A map of California is displayed in the background. In the foreground, a 'Well Search Results' table is shown, listing various wells with their details. A red arrow points to the bottom-right corner of the table, where a small square handle is visible, indicating that the table can be resized by dragging this handle.

Local Well Number	State Well Number	CASGEM Station ID	Monitoring Entity	Basin Name-Num	Well Use	CASGEM Well	Total Well Depth	Well Construction	Well Completion
02S03W10G001	02S03W10G001	377737N122476		East Bay Plain-2	Irrigation	No	Confidential	No	Not Available
03S03W14K002	03S03W14K002	376679N122457		East Bay Plain-2	Industrial	No	Confidential	No	Not Available
01S04W11K001	01S04W11K001	378515N122269		East Bay Plain-2	Irrigation	No	Confidential	No	Not Available
03S02W32D002	03S02W32D002	376328N122113		East Bay Plain-2	Irrigation	No	Confidential	No	Not Available
02S04W25A001	02S04W25A001	377332N122245		East Bay Plain-2	Irrigation	No	Confidential	No	Not Available
03S02W29A003	03S02W29A003	376461N122097		East Bay Plain-2	Industrial	No	Confidential	No	Not Available
02S03W22O002	02S03W22O002	377413N122180		East Bay Plain-2	Industrial	No	Confidential	No	Not Available
03S03W36R002	03S03W36R002	376245N122129		East Bay Plain-2	Industrial	No	Confidential	No	Not Available
02S03W28G001	02S03W28G001	377297N122194		East Bay Plain-2	Irrigation	No	Confidential	No	Not Available
02S04W03E001	02S04W03E001	377894N122297		East Bay Plain-2	Irrigation	No	Confidential	No	Not Available
02S03W19O001	02S03W19O001	377369N122230		East Bay Plain-2	Irrigation	No	Confidential	No	Not Available
02S04E29O001	02S04E29O001	377224N121560		Tracy-5-22.15	Unknown	No	Confidential	No	Not Available
02S03W36M002	02S03W36M002	377135N122151		East Bay Plain-2	Industrial	No	Confidential	No	Not Available
03S02W28D003	03S02W28D003	376477N122096		East Bay Plain-2	Residential	No	Confidential	No	Not Available

You can re-size the table by clicking here and dragging once the desired shape is seen.

- To view the Well Information of a specific well, click on the CASGEM Station ID hyperlink of that well. A new window will pop up displaying the Well Information page (as seen below).

Clicking on the hyperlink causes a new window of the CASGEM application to open.

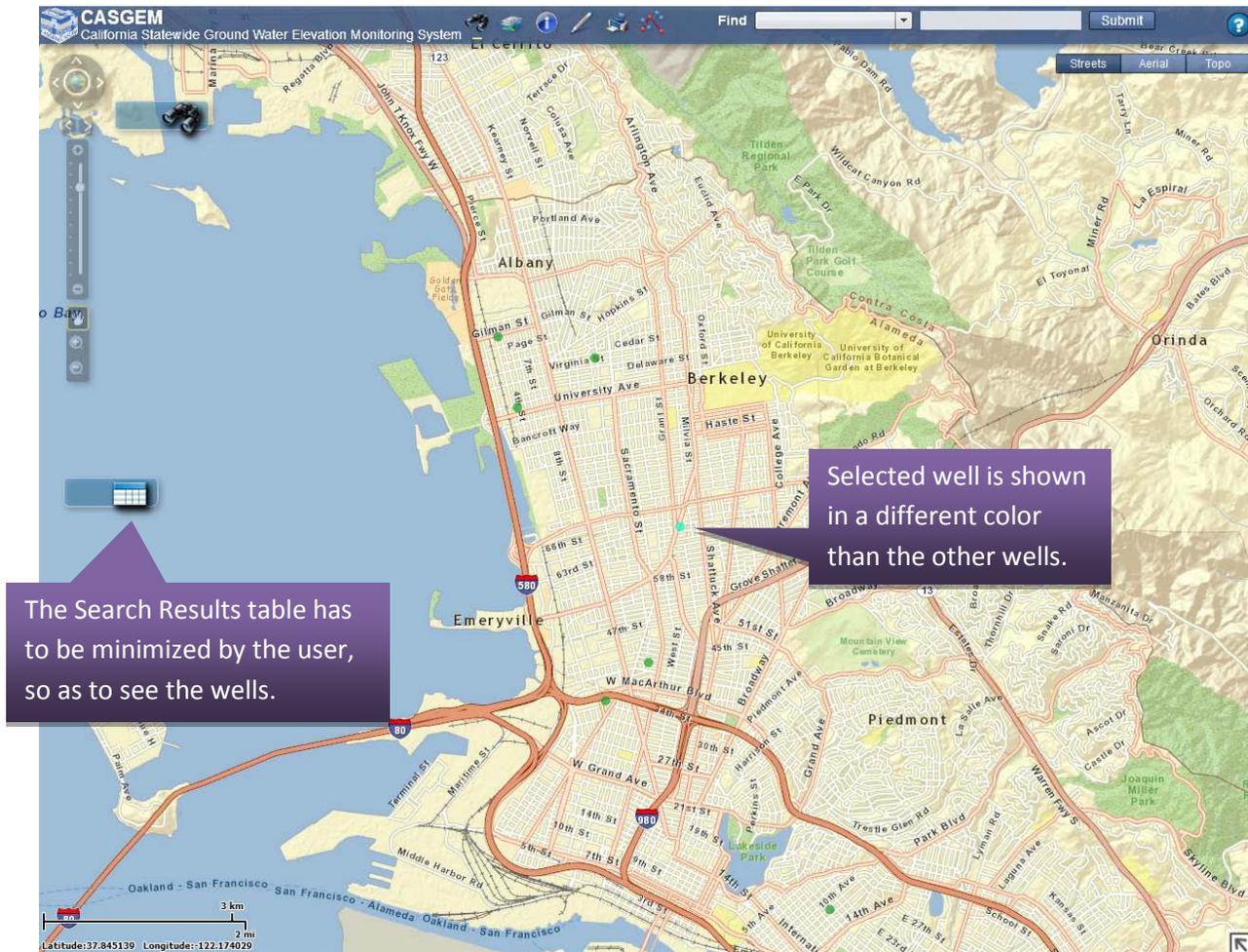
The screenshot displays the CASGEM Online System interface. A search results table is overlaid on the main application page. The table lists well information including Local Well Number, State Well Number, CASGEM Station ID, Location, Use, Depth, Direction, Status, and Coordinates. A callout box points to a hyperlink in the State Well Number column, indicating that clicking it opens a new window with the well's detailed information.

Local Well Number	State Well Number	CASGEM Station ID	Location	Use	Depth	Direction	Status	Latitude	Longitude
01S04W04R001	378620N122089								
01S04W11K001	378620N122089		East Bay Plain-2	Irrigation	200	N	Not Available	37.8515	-122.2698
03S03W03L023	376970N122186		East Bay Plain-2	Irrigation	630	N	Not Available	37.697	-122.1864
03S02W34Q022	376230N122071		East Bay Plain-2	Unknown	80	N	Not Available	37.623	-122.0715
01S04W22J001	378266N122283		East Bay Plain-2	Industrial	163	N	Not Available	37.8266	-122.2833
03S02W21G004	376602N122089		East Bay Plain-2	Irrigation	135	N	Not Available	37.6602	-122.0898
03S02W27A001	376471N122061		East Bay Plain-2	Irrigation	300	N	Not Available	37.6471	-122.0611
03S02W28D003	376477N122096		East Bay Plain-2	Residential	232	N	Not Available	37.6477	-122.0965
03S02W29A003	376461N122097		East Bay Plain-2	Industrial	429	N	Not Available	37.6461	-122.0976
03S02W30G005	376445N122122		East Bay Plain-2	Residential	75	N	Not Available	37.6445	-122.1222
03S02W32E001	376313N122113		East Bay Plain-2	Irrigation	80	N	Not Available	37.6313	-122.113
03S02W34P006	376234N122069		East Bay Plain-2	Residential	92	N	Not Available	37.6234	-122.069
03S02W35R001	376235N122049		East Bay Plain-2	Irrigation	570	N	Not Available	37.6235	-122.0496

The detailed well information form shows the following data:

- Identification:** Local Well Designation (input field), Is Local Designation the same as State Well #? (Yes/No), State Well Number (08N32W33D001S), Master Site Code (347361N1202581W001), Data submittals for this well are under (CASGEM/Voluntary).
- Coordinates:** Latitude (34.736100 North), Longitude (120.258100 West), Method (Unknown), Accuracy (Unknown).

- To examine the individual search results within the GIS application, select the row of the well of interest from within the Well Search Results table and click on it.



2.5.5.2 Exporting Search Results to Excel

- To save the search results in a spreadsheet (Excel), expand the Search Results table.
- Click on the Save Data button on the search results table. A dialog box will open prompting the user to save the file on their computer.
- Select a folder to save your search to, provide a file name and click “Save”.

Local Well Number	State Well Number	CASGEM Station ID	Basin Name/Num	Well Use	Total Well Depth	Well Construction	Well Completion	Latitude	Longitude
	01S04W04R001	378686N122299	East Bay Plain-2	Industrial	320	N	Not Available	37.8686	-122.2993
	01S04W11K001	378013N122209	East Bay Plain-2	Irrigation	200	N	Not Available	37.8515	-122.2698
	03S03W03L023	376970N122186	East Bay Plain-2	Irrigation	630	N	Not Available	37.697	-122.1864
	03S02W34Q022	376230N122071	East Bay Plain-2	Unknown	80	N	Not Available	37.623	-122.0715
	01S04W22J001	378266N122283	East Bay Plain-2	Industrial	163	N	Not Available	37.8266	-122.2833
	03S02W21G004	376602N122089	East Bay Plain-2	Irrigation	135	N	Not Available	37.6602	-122.0898
	03S02W27A001	376471N122061	East Bay Plain-2	Irrigation	300	N	Not Available	37.6471	-122.0611
	03S02W28D003	376477N122096	East Bay Plain-2	Residential	232	N	Not Available	37.6477	-122.0965
	03S02W29A003	376461N122097	East Bay Plain-2	Industrial	429	N	Not Available	37.6461	-122.0976
	03S02W30G005	376445N122122	East Bay Plain-2	Residential	75	N	Not Available	37.6445	-122.1222
	03S02W32E001	376313N122113	East Bay Plain-2	Irrigation	80	N	Not Available	37.6313	-122.113
	03S02W34P006	376234N122069	East Bay Plain-2	Residential	92	N	Not Available	37.6234	-122.069
	03S02W35R001	376235N122049	East Bay Plain-2	Irrigation	570	N	Not Available	37.6235	-122.0496

2.5.5.3 Using the Search Menu to Find Basin Notifications

- Open the CASGEM Search Menu by clicking on either the minimized icon or the Top Bar.
- Select “Basin Notifications” in the “search for” drop-down menu.
- Select the search criteria as shown in the above figure and click on the search button.
- The results will be displayed on the map as well as in the Basin Notification Search Results table.

The screenshot displays the CASGEM web application interface. At the top, the title bar reads "CASGEM California Statewide Ground Water Elevation Monitoring System". A search bar is visible with a "Find" dropdown and a "Submit" button. The main content area features a "CASGEM Search" panel with the following search criteria:

- Search for: Basin Notifications
- DWR Region Office: South Central
- Hydrologic Region: Central Coast
- Monitoring Entity Name: (empty)
- Cooperating Agency Name: (empty)
- Well ID/Number: (empty)
- Basin/Sub Basin Name/Number: (empty)
- Status: (empty)
- Submit/Last Update Date: (empty)

Buttons for "Search" and "Clear" are located below the search criteria. A purple callout box points to the "Basin Notifications" dropdown with the text "Search criteria selected." Below the search panel, a map of California and surrounding regions is shown. A purple callout box with red arrows pointing to the map and the results table contains the text "Search Results -on map -in table". At the bottom, a "Basin Notification Search Results" table is displayed:

Monitoring Entity Name	Notification Status	Basin Name	Basin Number	Contact Name	Contact Email	Notification Date
San Benito Count	Open	Bitter Water Val	3-30		ctaylor@todden	
San Benito Count	Open	Hernandez Valle	3-31		ctaylor@todden	

Latitude:36.991922 Longitude:108.508455

- To view the information for a specific Basin Notification, click on the hyperlink of the desired record in the search results. A new window will pop up displaying the Basin Summary for the Notification (as seen below).

The screenshot shows the CASGEM (California Statewide Ground Water Elevation Monitoring System) web application. A map of California is visible in the background. A table titled "Save Basin Notifications" is overlaid on the map, with a blue arrow pointing to the "San Benito County" row. A new browser window is open, displaying the "Basin Summary" page for the selected notification. The browser window title is "Ground Water Elevation Management System, California Department of Water Resources - Windows Internet Explorer". The URL is "http://buswebdev01.water.ca.gov/OSS/S(dxqovui3:". The page content includes the CASGEM logo and navigation tabs: Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The "Basin Summary" section is expanded, showing "Monitoring Entity Details" and "Basin Information".

Clicking on the hyperlink causes a new window of the CASGEM application to open.

Monitoring Entity Name	Notification Status	Basin Name
San Benito County	Open	Bitter Water Valley
San Benito County	Open	Hernandez Valley

Basin Summary

Monitoring Entity Details

Monitoring Entity Name: San Benito County Water District
 Monitoring Entity Address: 30 Mansfield Road, Hollister, CA
 Contact Person:
 Authority Type: Ground Water Management Agency

Basin Information

Region of Basin: 3-Central Coast
 Basin Number and Name: 3-30-Bitter Water Valley
 Basin Portion Name:
 Cooperating Agency:

- To examine the individual search results, select a row of interest from within the Basin Search Results and click on it. The map will zoom in to the feature.
- To save the search results in a spreadsheet, the user should click on the Save Data button on the search results table. A dialog box will open for the user to save the file in Excel format on their computer (to see example on exporting search results to Excel, [click here](#)).

The screenshot shows the CASGEM (California Statewide Ground Water Elevation Monitoring System) web application. The interface includes a top navigation bar with the CASGEM logo, a search bar, and a 'Submit' button. The main area is a topographic map of California with various basins highlighted in purple and green. A search results table is overlaid on the map, displaying the following data:

Monitoring Entity Name	Notification Status	Basin Name	Basin Number	Contact Name	Contact Email	Notification Date
San Benito County	Open	Bitter Water Val	3-30		ctaylor@todden	
San Benito County	Open	Hernandez Valle	3-31		ctaylor@todden	

A callout box on the left side of the map states: "Search widget has been minimized." The map also shows geographical features like Pinnacles National Monument, Soledad, Greenfield, and San Lucas, along with roads like 146 and 198. A scale bar at the bottom left indicates 10 km and 5 miles, with coordinates Latitude: 36.486276 and Longitude: -120.697130.

2.5.5.5 Using the Search Menu to find Unmonitored Basins

- Open the CASGEM Search Menu, by clicking on either the minimized icon or the Top Bar.
- Select “Unmonitored Basins” in the “search for” drop-down and click on the search button.
- The results will be displayed on the map and the Unmonitored Basins Search Results table.

The screenshot displays the CASGEM web interface. At the top, the search bar contains the text "Search criteria selected." Below it, the "CASGEM Search" panel is open, showing the search criteria set to "Unmonitored Basins". The search results are displayed on the map as colored areas (purple, blue, and green) across California. A callout box points to these areas with the text "Search results table will correspond to the mapped areas." Below the map, the "Unmonitored Basins Search Results" table is visible, listing three basins: SAN MARCOS AREA (9-32), CHOCOLATE VALLEY (7-32), and OROCOPIA VALLEY (7-31). The map also shows a scale bar (500 km / 300 mi) and coordinates (Latitude: 37.434739, Longitude: 126.152498).

Basin Name	Basin Code
SAN MARCOS AREA	9-32
CHOCOLATE VALLEY	7-32
OROCOPIA VALLEY	7-31

- To examine the individual search results, select a row of interest from within the Unmonitored Basin Notification Search Results and click on it. The map will zoom in to the feature.

- To save the search results in a spreadsheet, the user should click on the Save Data button on the search results table. A dialog box will open for the user to save the file in Excel format on their computer (to see example on exporting search results to Excel, [click here](#)).

Search widget has been minimized.

Hovering over the basin will display the basin name.

Basin Name = CHOCOLATE VALLEY

Basin Name	Basin Code
SAN MARCOS AREA	9-32
CHOCOLATE VALLEY	7-32
OROCOPIA VALLEY	7-31

2.5.5.6 Using the Search Menu to Find Overlapped Basin Notifications

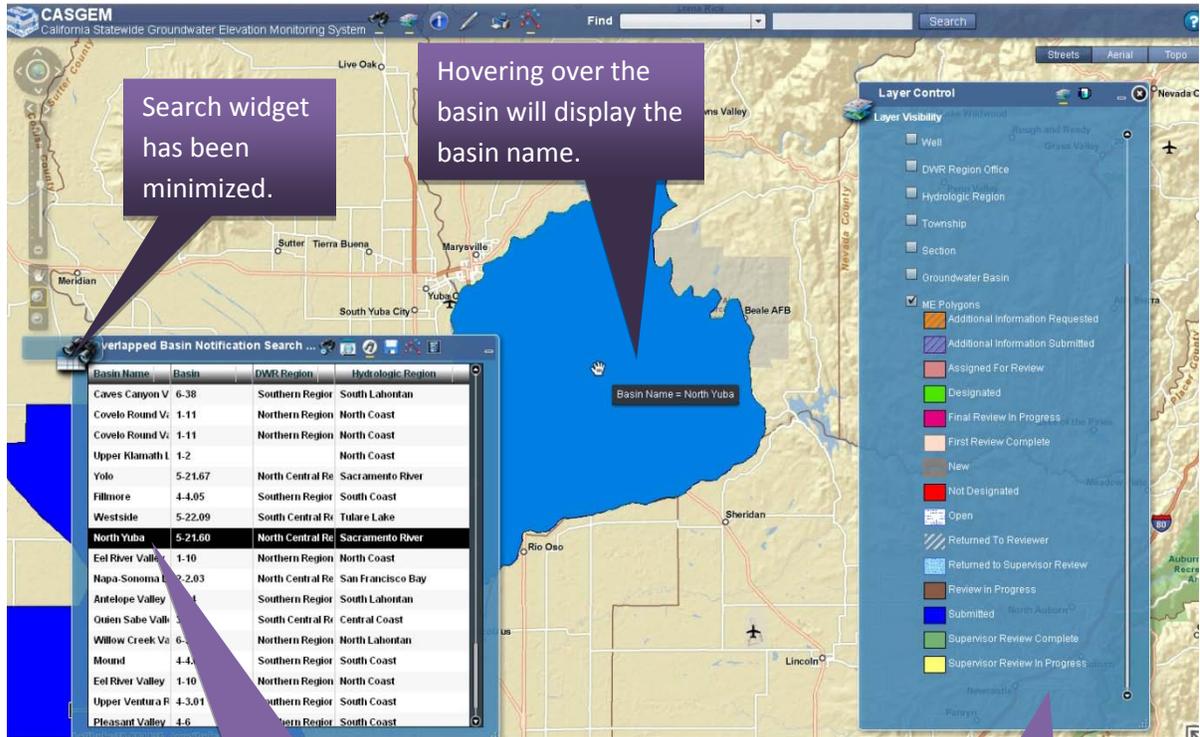
- Open the CASGEM Search Menu, by clicking the binoculars on either the minimized icon or the Top Bar.
- Select “Overlapped Basin Notifications” in the “search for” drop-down menu. Automatically, all other search criteria will be disabled. Click on the search button.
- The results will be displayed on the map as well as in the Overlapped Basin Notifications Search Results table.

The screenshot shows the CASGEM web application interface. At the top, there is a search bar with the text "Find" and a "Submit" button. Below this, a "CASGEM Search" dialog box is open, displaying "Search criteria selected." The dialog box has a "Search for" dropdown menu set to "Overlapped Basin Notifications". Below this, there are several search criteria fields: "DWR Region Office", "Hydrologic Region", "Monitoring Entity Name", "Cooperating Agency Name", "Well ID/Number", "Basin/Sub Basin Name/Number", "Status", and "Submit/Last Update Date". There are "Search" and "Clear" buttons at the bottom of the dialog box. The background is a map of California and surrounding areas, with several basins highlighted in blue. A callout box labeled "Search results." points to a table titled "Overlapped Basin Notification Search Results".

Basin Name	Basin	DWR Region	Hydrologic Region
Upper Klamath I	1-2.01	Northern Region	North Coast
Upper Klamath II	1-2.01	Northern Region	North Coast
Soquel Valley	3-1	South Central Region	Central Coast

At the bottom of the map, there is a scale bar showing 500 km and 300 mi, and coordinates: Latitude: 37.556771, Longitude: -104.179842.

- To examine the individual search results, select a row of interest from within the Overlapped Basin Notification Search Results and click on it. The map will zoom in to the feature.
- To save the search results in a spreadsheet, click on the Save Data button on the search results table. A dialog box will open for the user to save the file in Excel format on their computer (to see example on exporting search results to Excel, [click here](#)).



Basin of interest has been selected and the mapping has zoomed to that feature.

Open the Layer Control to view the legend information as needed.

2.5.6 Layer Control

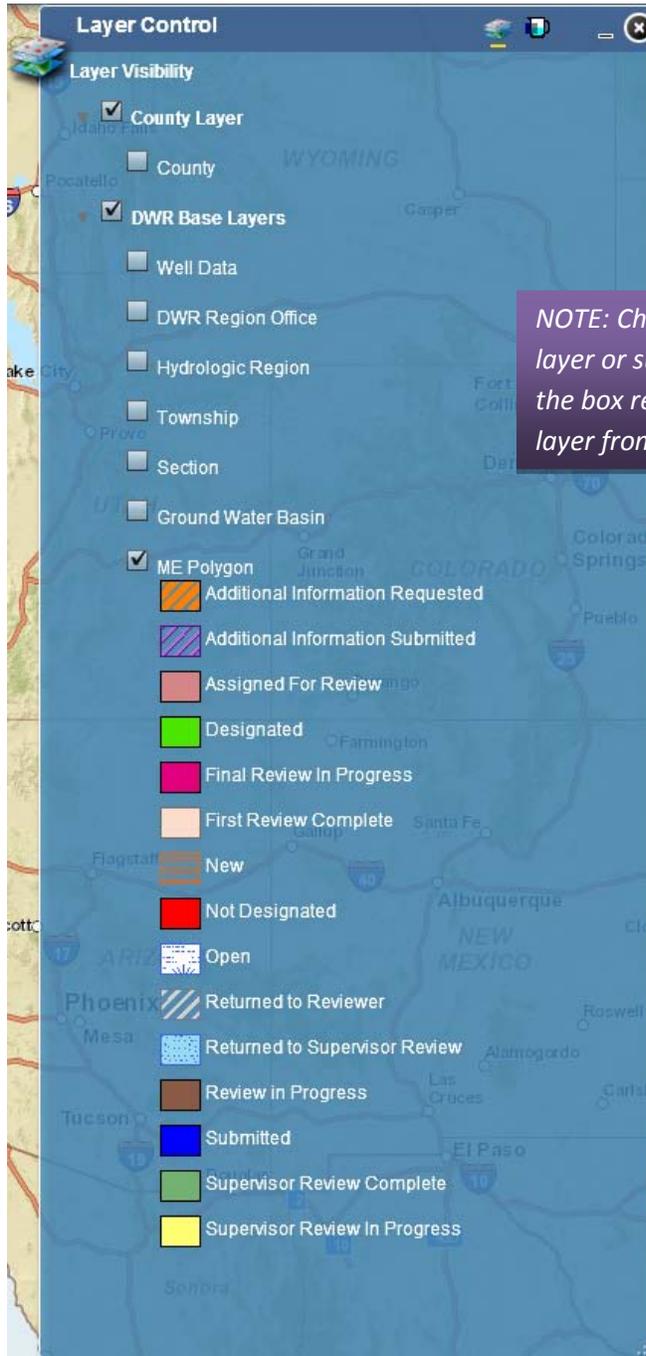
The Layer Control menu provides GIS viewer application users the ability to turn map layers on and off. Topics covered in this subsection include:

- 2.5.6.1 [Using the Map Layer Control Menu](#)
- 2.5.6.2 [Using the Layer Transparency Tool](#)

It can be accessed by clicking on the Layer icon in the Top Bar.

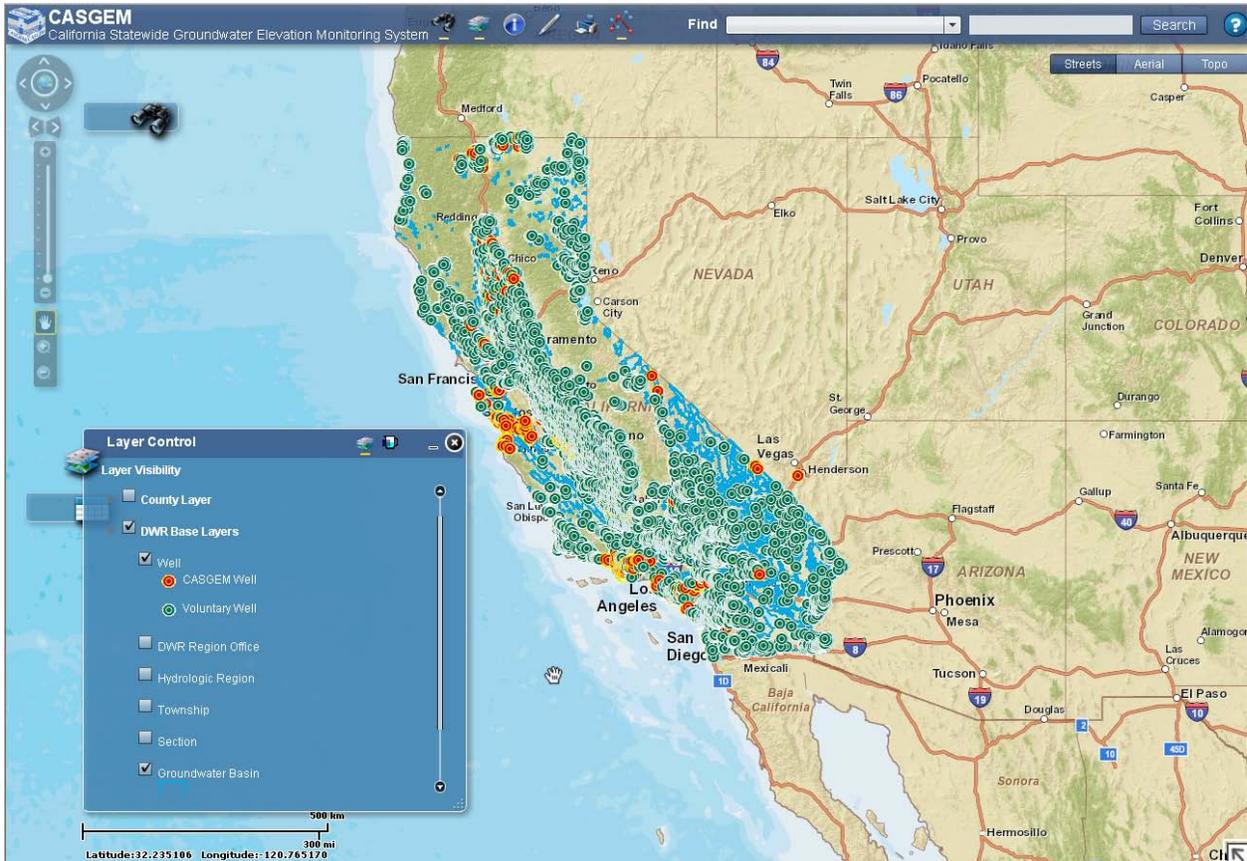


All available layers are represented in the Layer Control table that appears below.

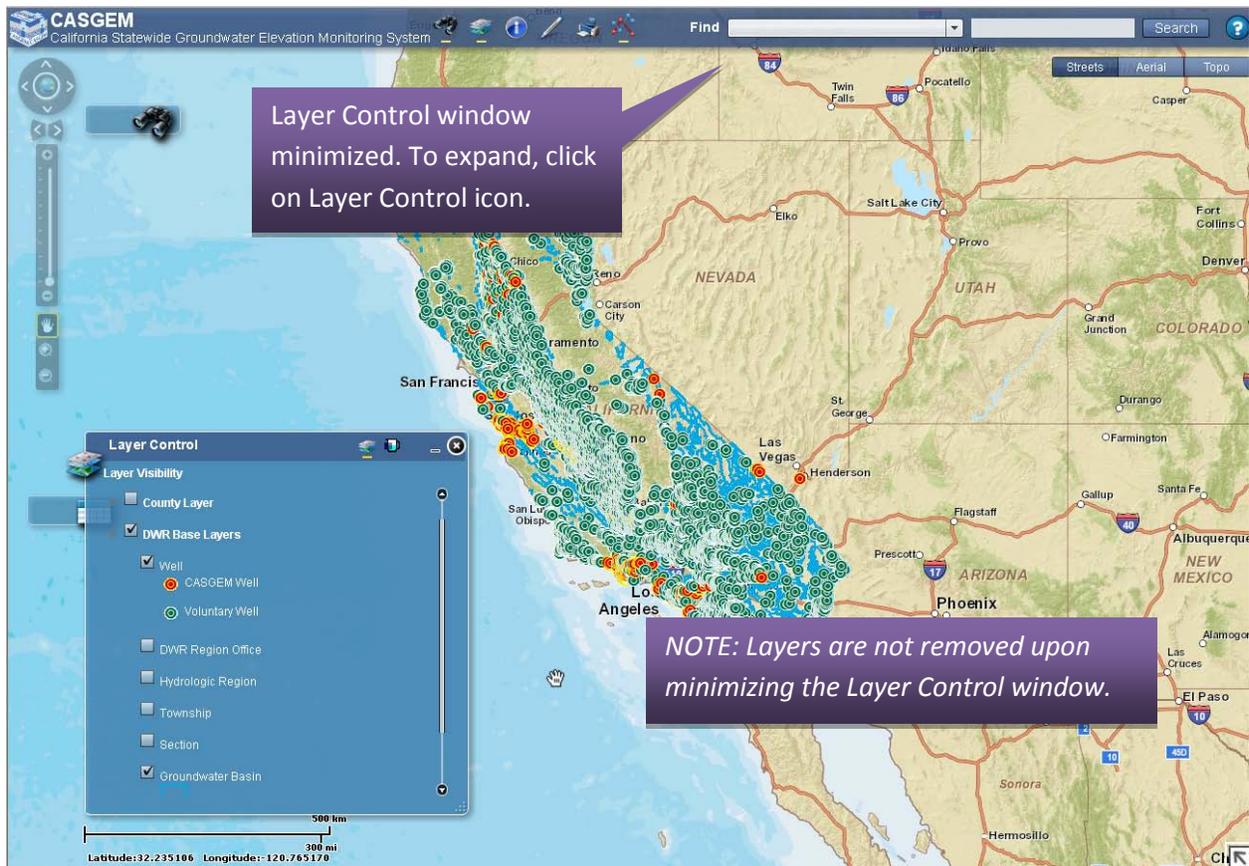


2.5.6.1 Using the Map Layer Control Menu

- Click on the Layer Control Menu icon in the Top Bar. The Layer Control Menu opens as a dialog window listing all available layers with selection boxes to toggle layers on and off.
- All the layers that are turned on (boxes checked) will be displayed on the map.

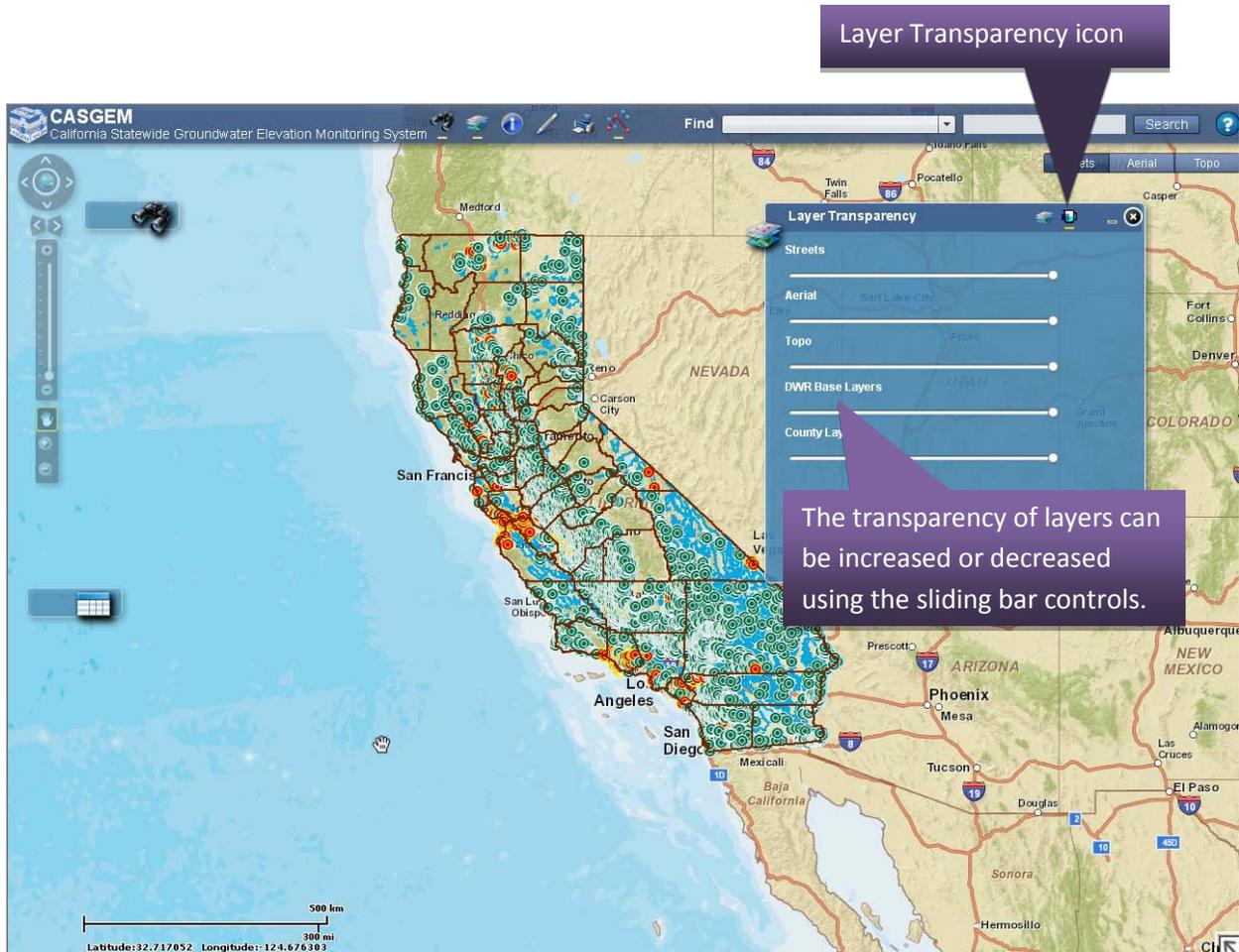


- To minimize the Layer Control Menu on the map, click the minimize button on the Layer Control Menu window dialog. The Layer Control Menu minimizes on the map viewer as shown in the picture below.
- Clicking on the Layer Control icon again will re-open the Layer Control Menu dialog window.

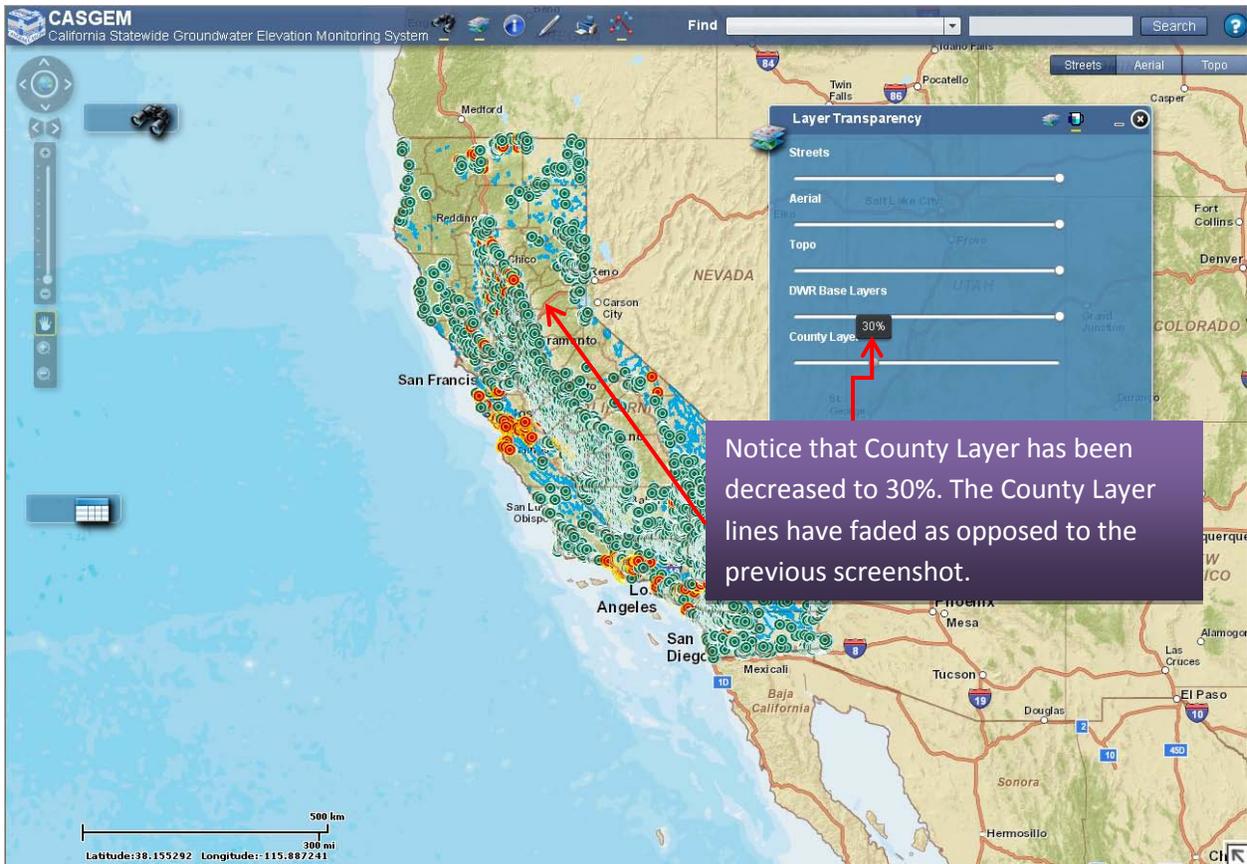


2.5.6.2 Using the Layer Transparency Tool

- The Layer Control menu bar contains a Transparency Tool icon which can be used for setting the transparency of certain map layers.
- When the Layer Transparency icon is clicked, the associated dialog window is opened as shown below. The transparency of layers can be increased or decreased using the sliding bar controls.



To decrease the transparency of a layer, simply move the sliding bar controls. The changes can be seen on the map instantly.



NOTE: Once the desired level of layer transparency is set, the user can click on the Layer list icon to return to the Layer Control Menu.

2.5.7 Identify

This subsection of the User Guide covers the following topics:

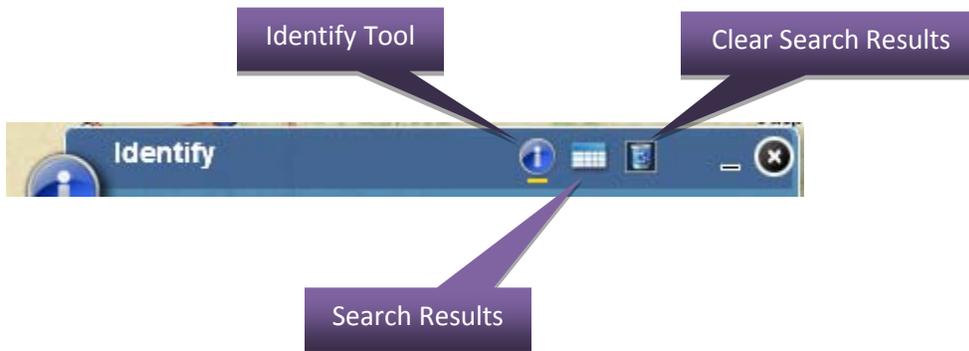
- 2.5.7.1 [Working with the Identify Menu](#)
- 2.5.7.2 [Identifying Features by Point Selection](#)
- 2.5.7.3 [Identifying Features by Polyline Selection](#)
- 2.5.7.4 [Identifying Features by Rectangle Selection](#)
- 2.5.7.5 [Identifying Features by Polygon Selection](#)

The Identify Menu, found in the Top Bar of the GIS application, enables users to identify features, associated with active map layers, on the map.

NOTE: Before using the Identify tool, at least one layer of interest should be turned on using the Layer Control menu.

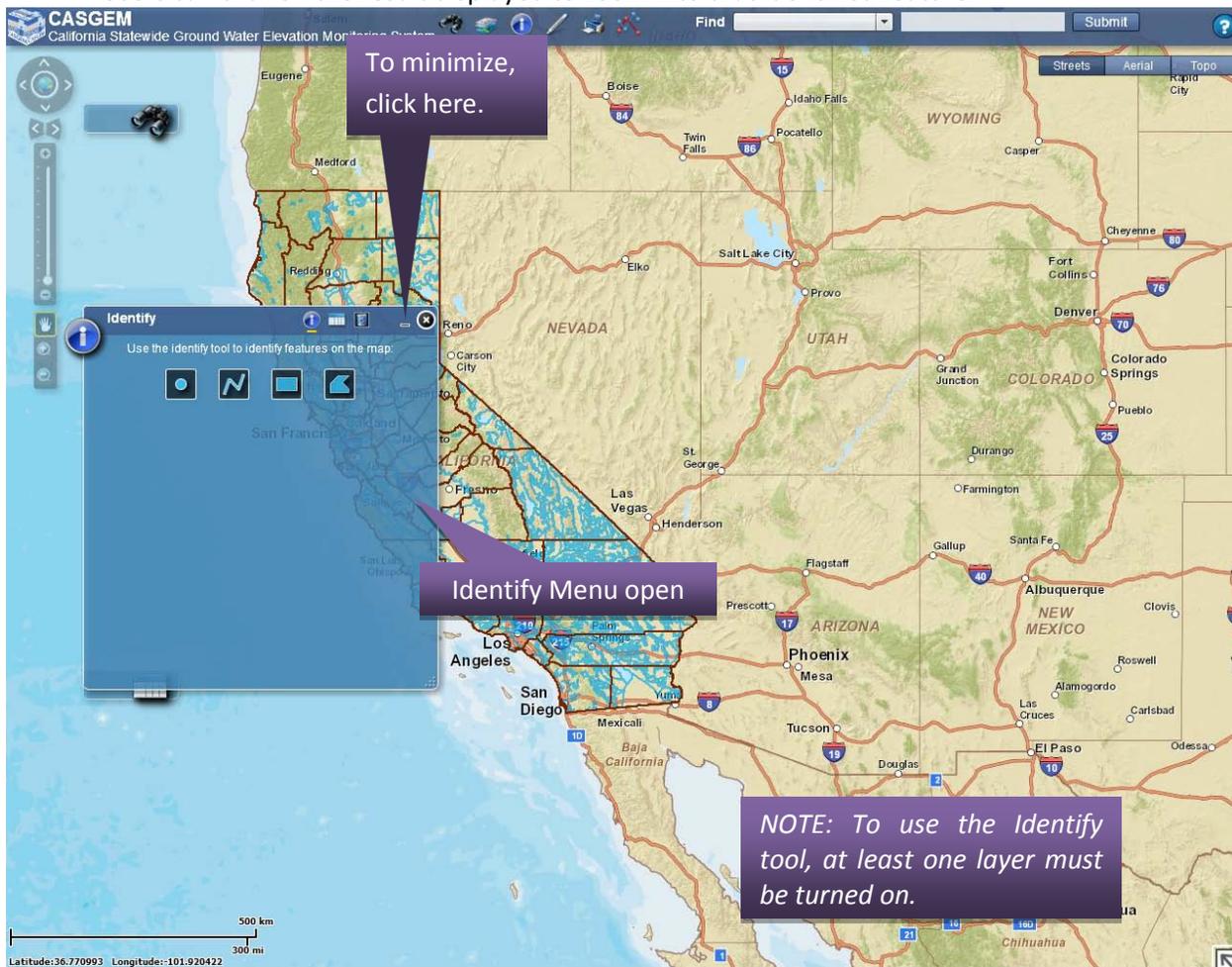


Below are the different functions of the Identify Menu:

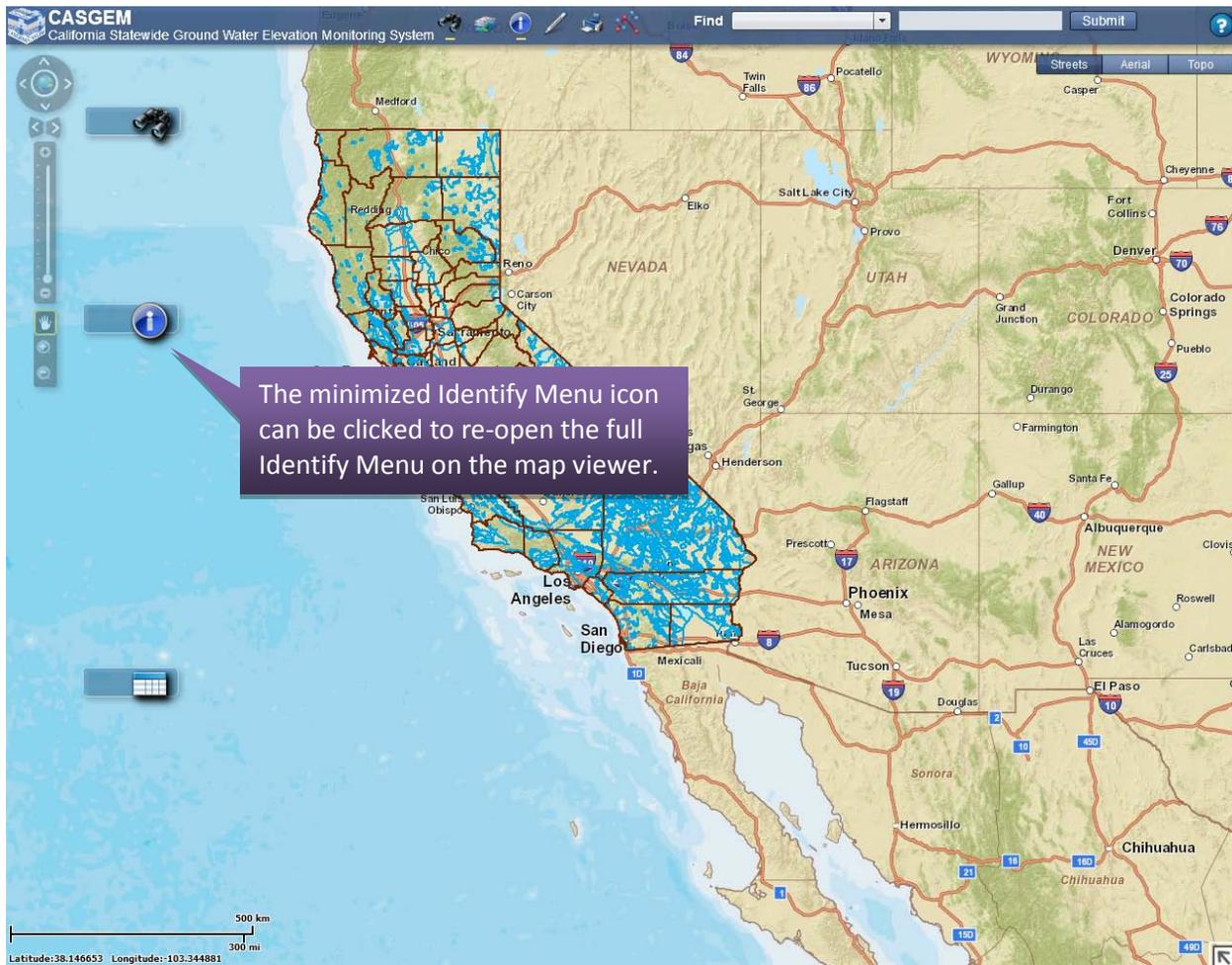


2.5.7.1 Working with the Identify Menu

- Click on the Identify Menu icon on the Top Bar. The Identify Menu opens within the map display as shown below.
- The Identify menu bar has three icons titled Identify, Results and Clear Results.
- The Identify menu contains buttons representing four different ways to select map features to identify them:
 - Select by clicking a point on map features
 - Select by drawing a polyline on map features
 - Select by drawing a rectangle over map features
 - Select by drawing a polygon over map features
- The Identify menu works on the principle of identifying all displayed/visible features on the map.
- Users can click on the result displayed to zoom into that identified feature.

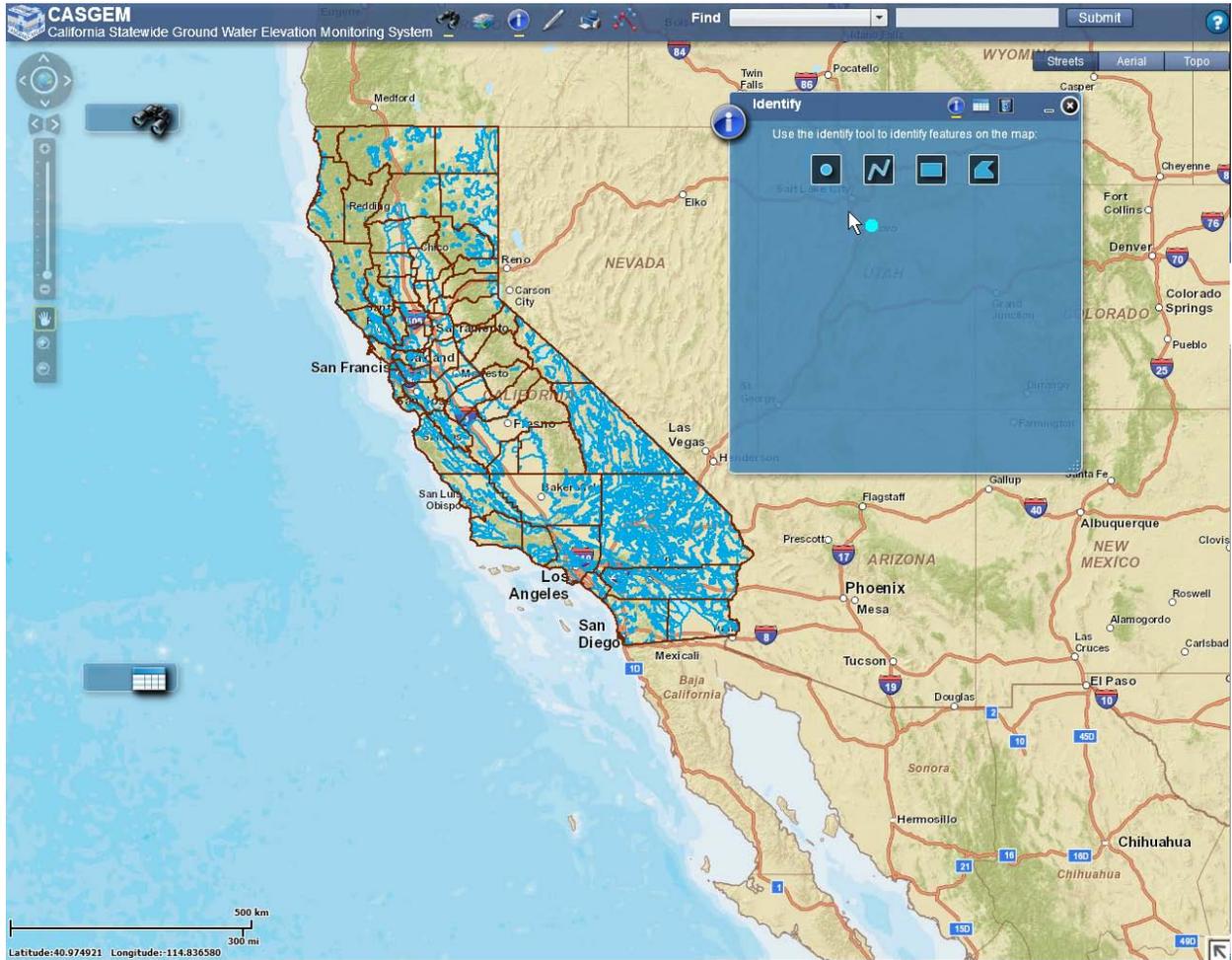


- To minimize the Identify Menu, click on the minimize button on the Identify Menu dialog window. The Identify Menu minimizes on the map viewer as shown below.

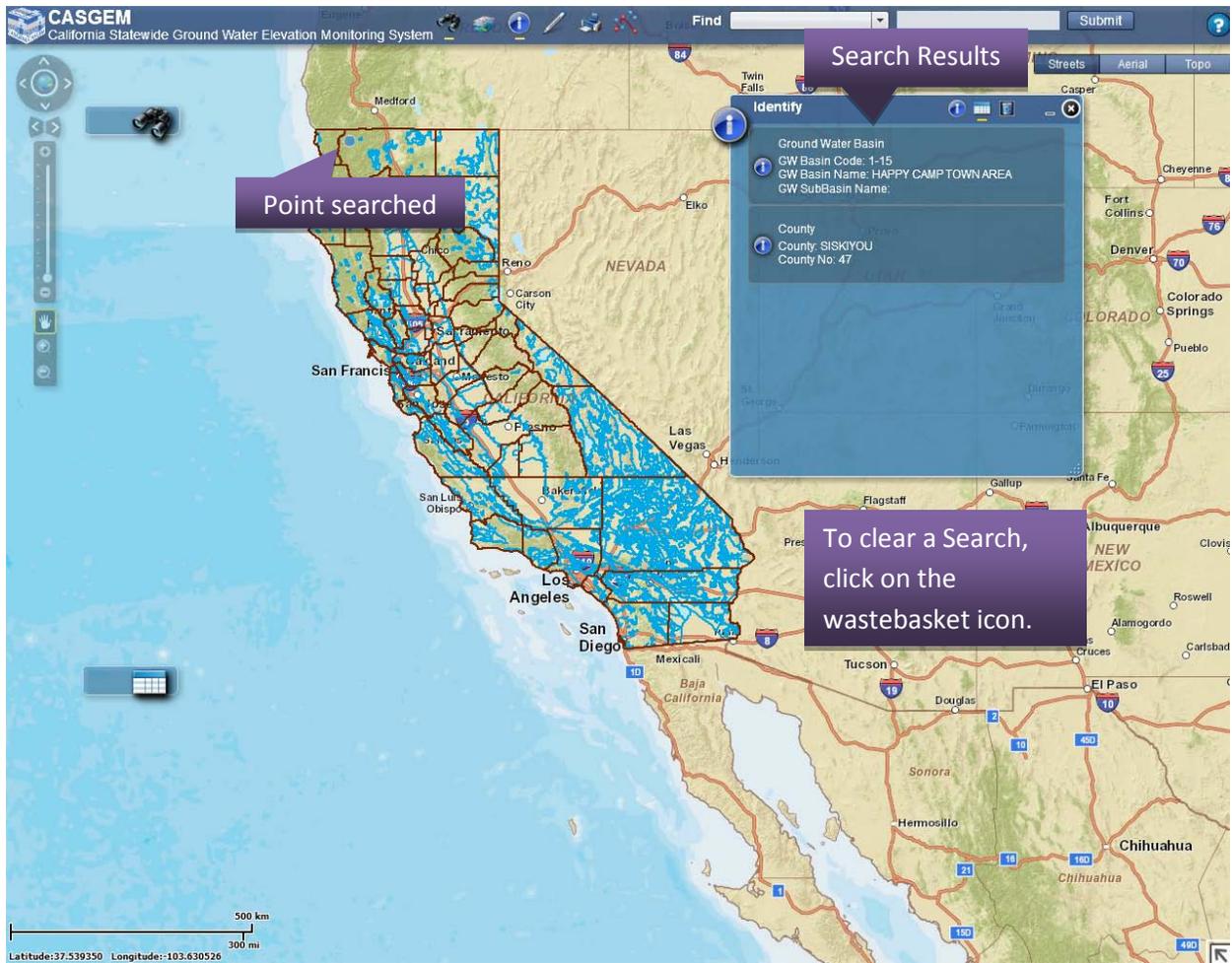


2.5.7.2 Identifying Features by Point Selection

- Select the “Identify by point” icon in the Identify Menu to identify the features on the map.
- To identify a specific area of the map, click on the map and a point will be displayed in addition to a results table (in the Identify Menu) identifying the features present at that location.
- The Identify by point function is not capable of identifying a well feature; rather, use the rectangle, or polygon, identify function.

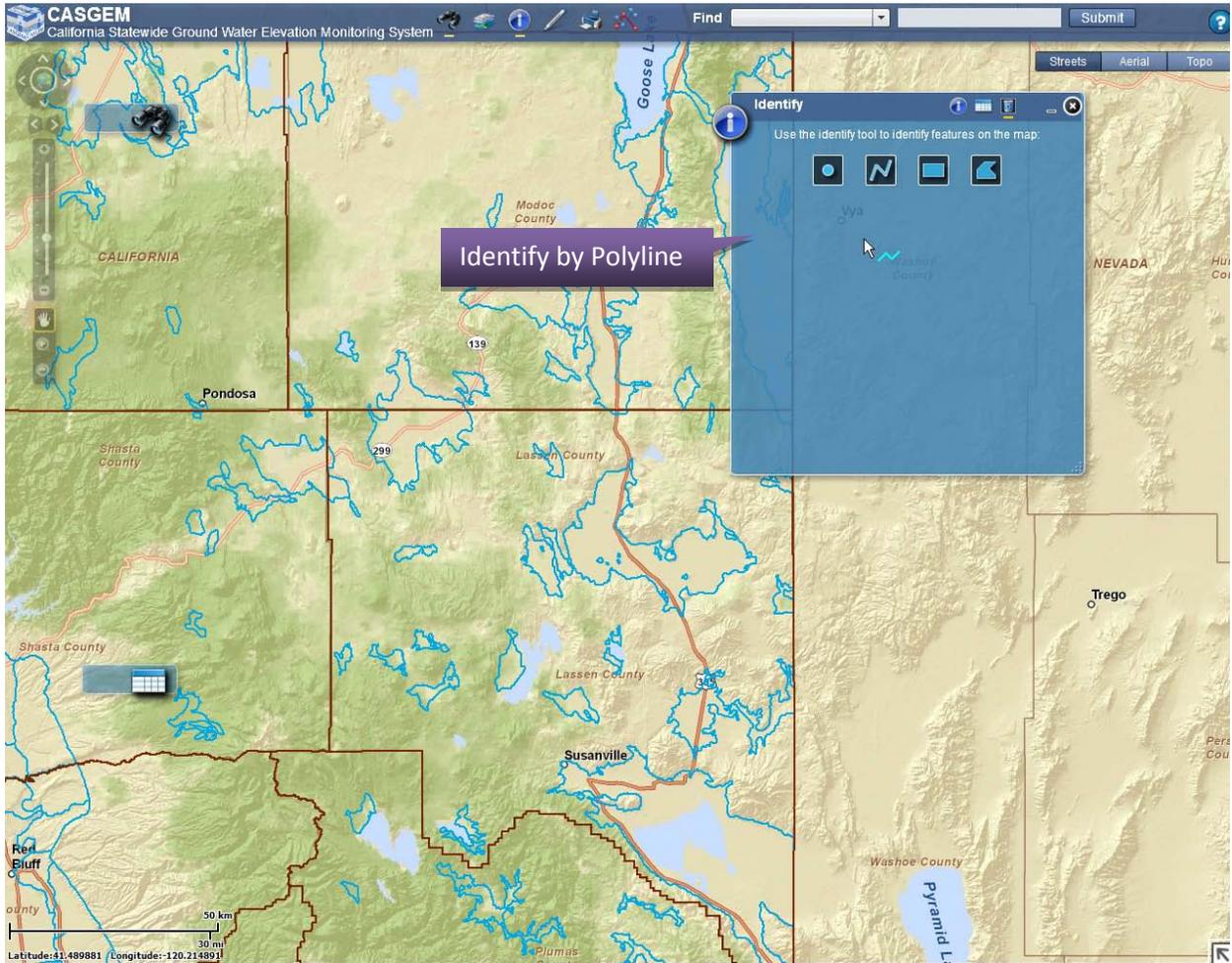


- The individual results in the results table can be selected to highlight those features on the map, along with a pop-up display of the attributes associated with the features.

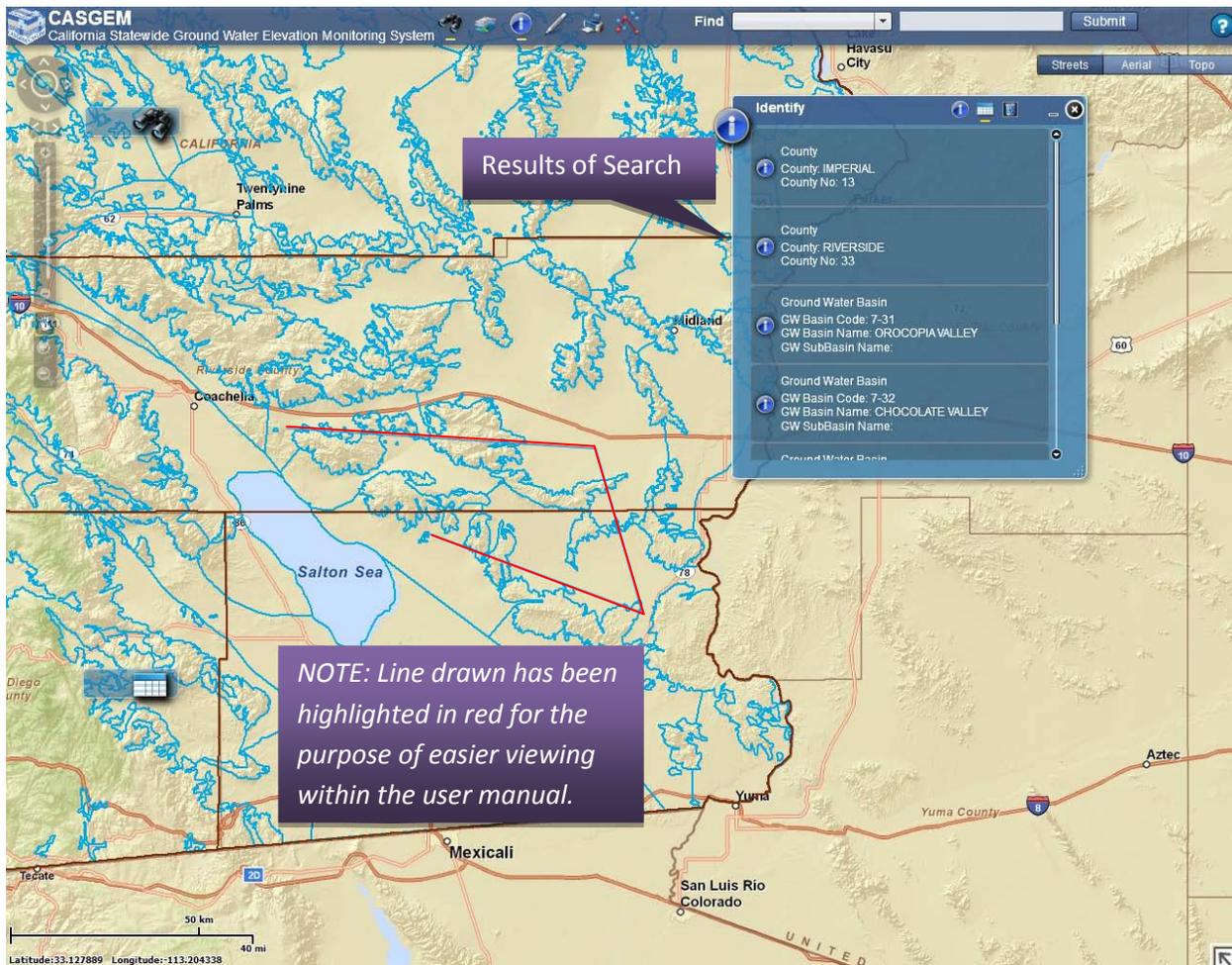


2.5.7.3 Identifying Features by Polyline Selection

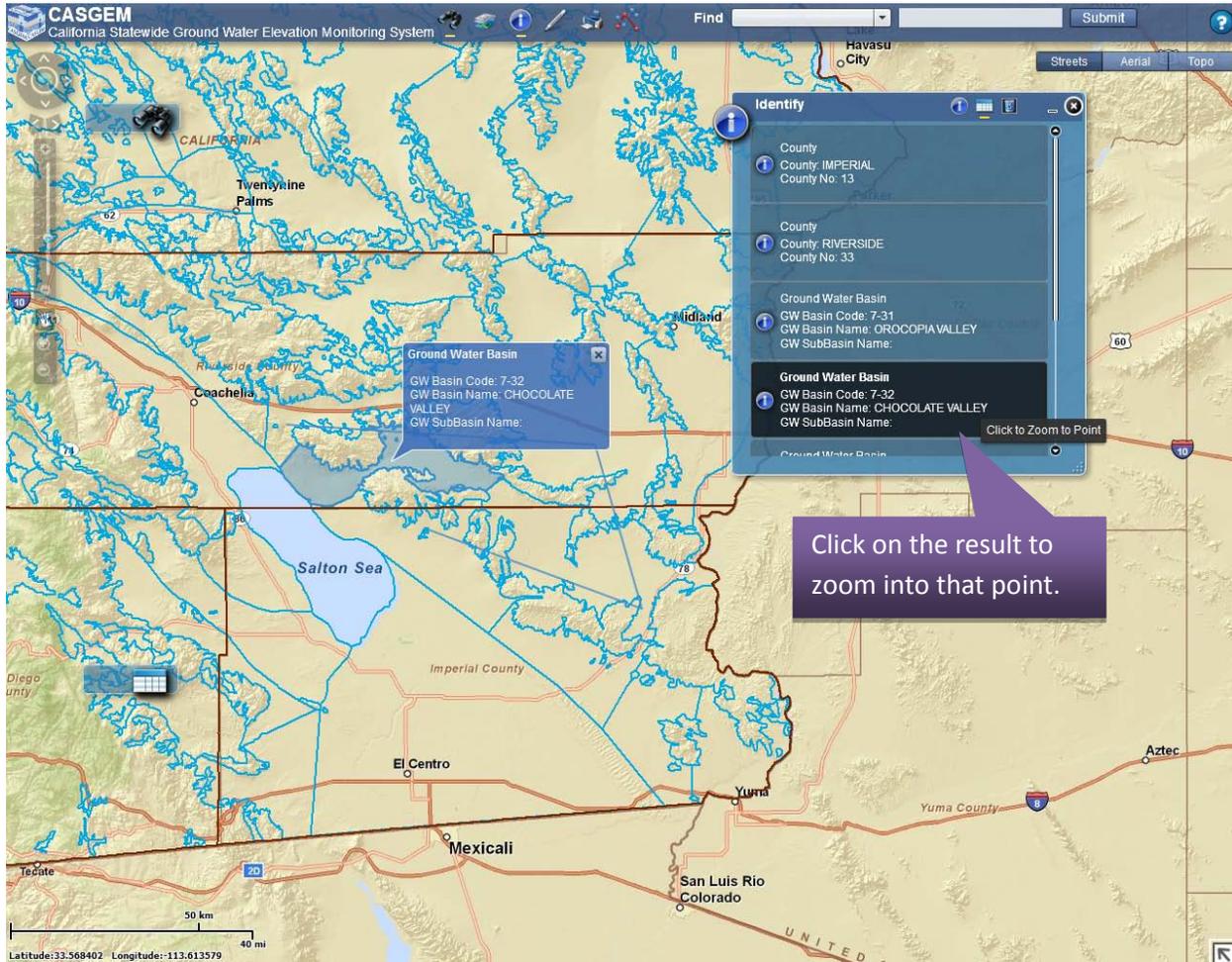
- Select the “Identify by polyline” icon in the Identify Menu to identify the features on the map.



- Click on the map to start drawing a line and double click to stop drawing. The line the user has drawn is displayed and all the features present at the location of the line will be identified in a results table in the Identify Menu.

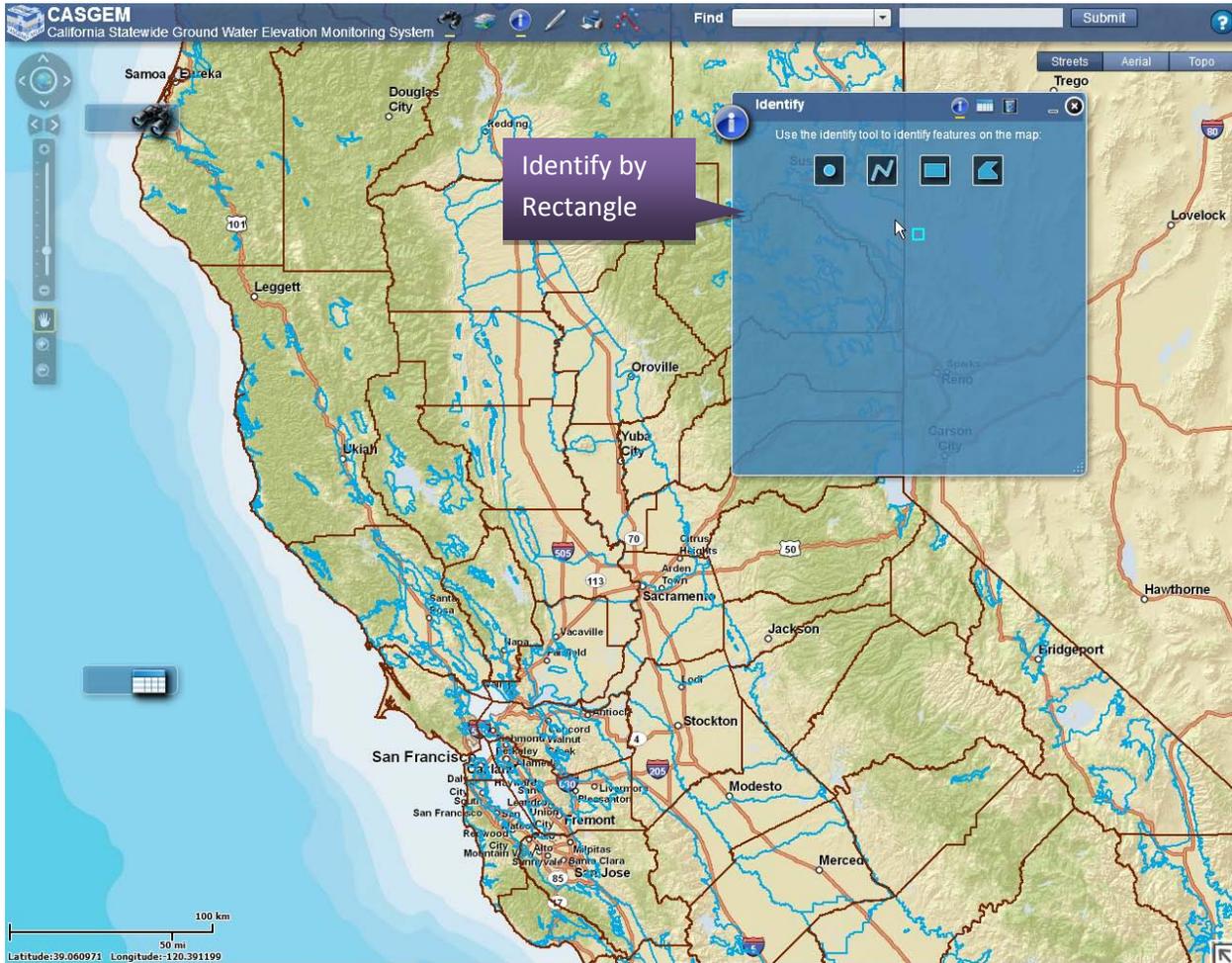


- Select a feature in the results table to highlight the identified feature on the map along with a pop-up display of the attributes associated with the feature.

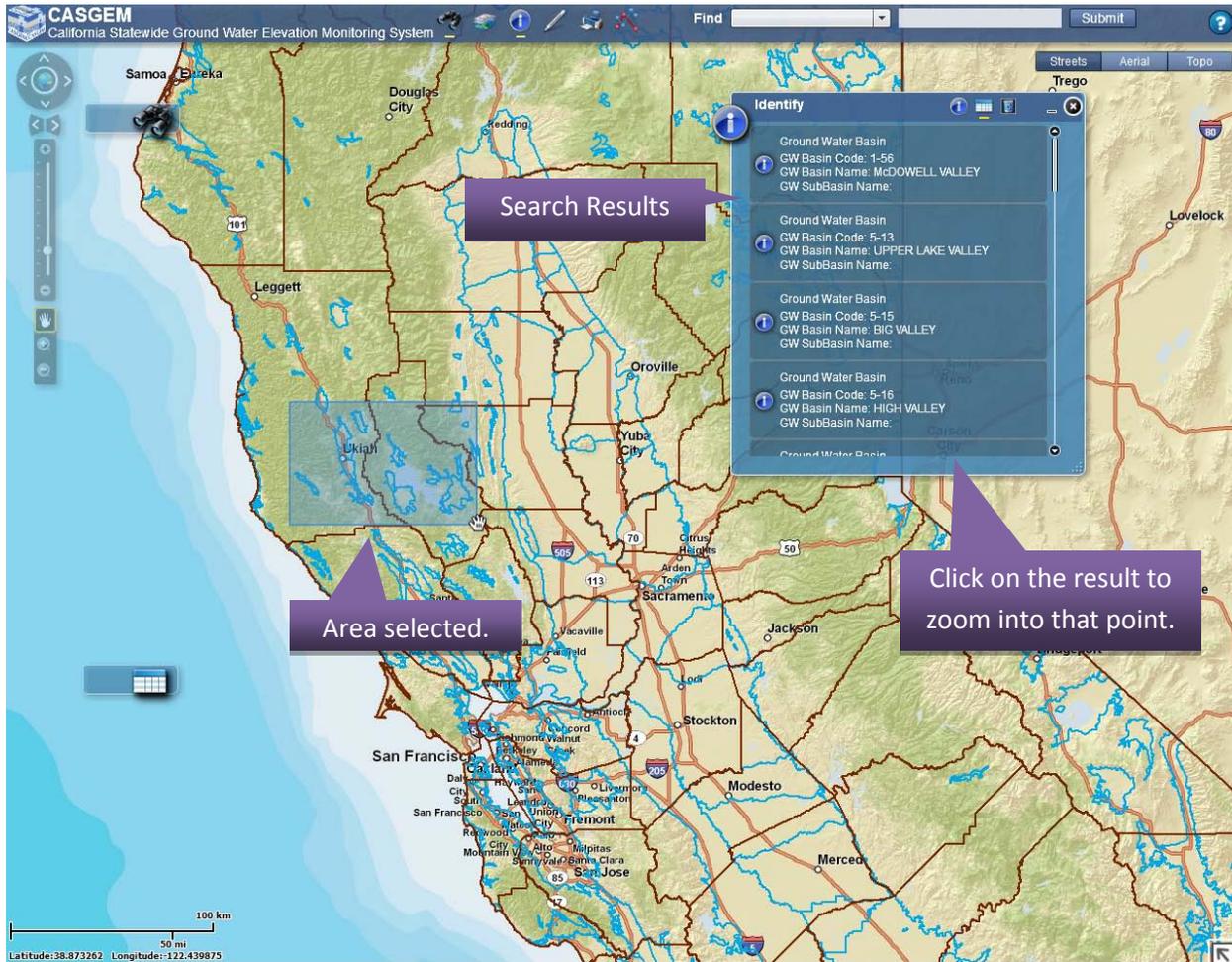


2.5.7.4 Identifying Features by Rectangle Selection

- Select the “Identify by Rectangle” icon in the Identify Menu to identify the features on the map.

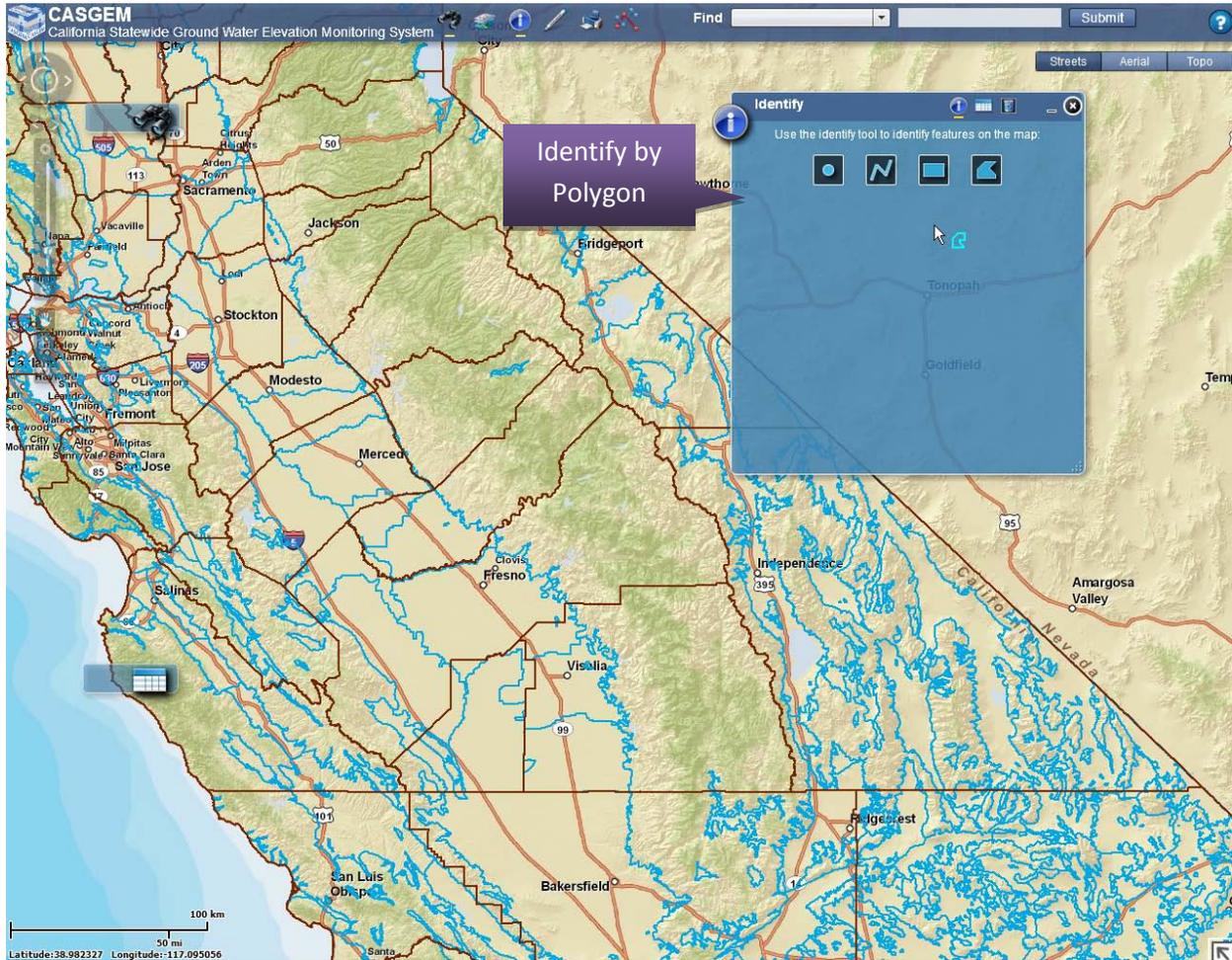


- Click on the map and drag to draw a rectangle encompassing the features of interest. A rectangle is displayed where the user has clicked and all displayed features present within the rectangle will be identified in a results table in the Identify menu.
- Select a feature in the results table to highlight the identified feature on the map along with a pop-up display of the attributes associated with the feature.

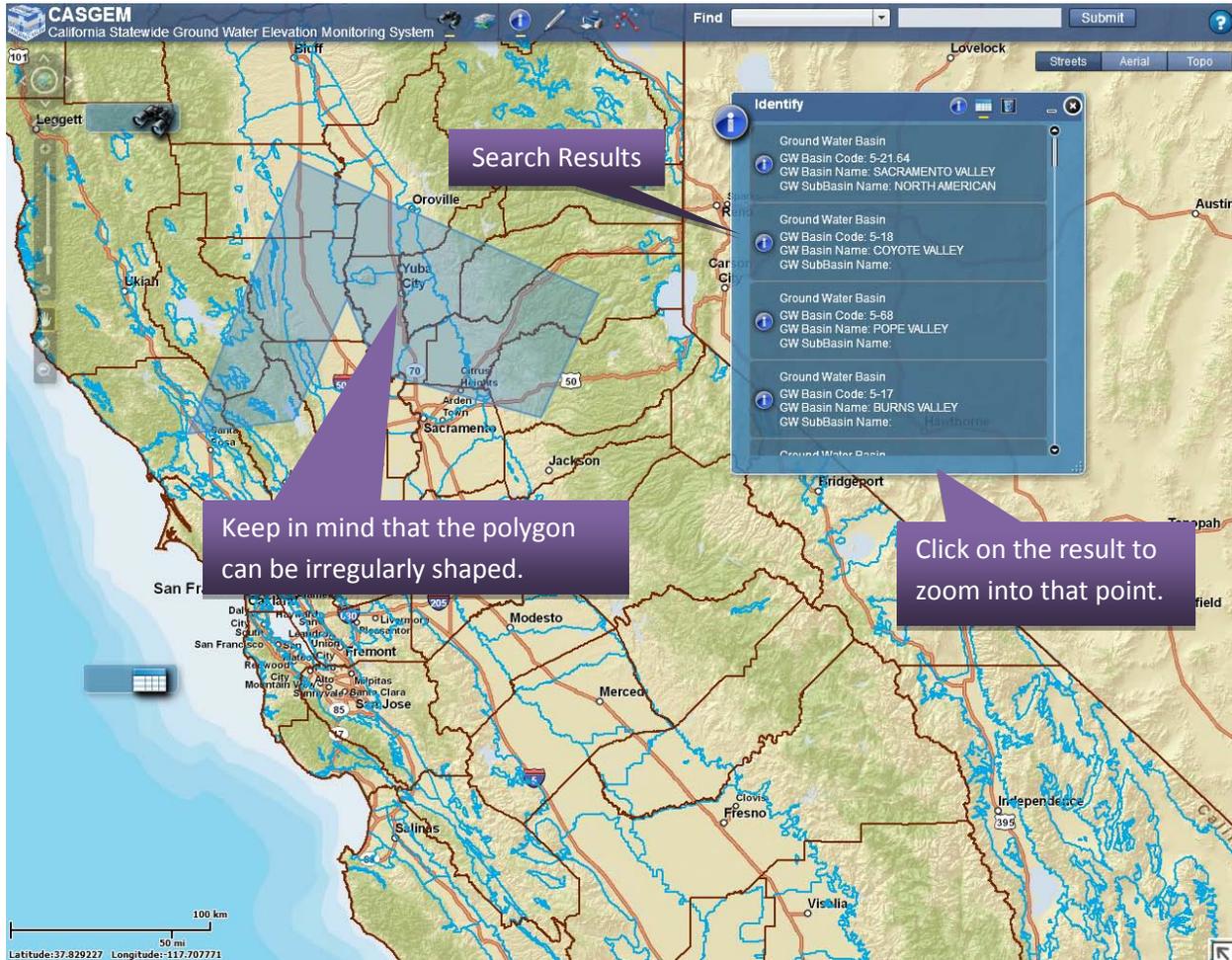


2.5.7.5 Identifying Features by Polygon Selection

- Select the “Identify by Polygon” icon in the Identify Menu to identify the features on the map.



- Click on the map and draw a polygon encompassing the features of interest by clicking once for each node of the polygon, and double-clicking to complete the polygon. The polygon is displayed where the user has clicked and all displayed features present within the polygon will be identified in a results table in the Identify Menu.
- Select a feature in the results table to highlight the identified feature on the map along with a pop-up display of the attributes associated with the feature.



2.5.8 Draw and Measure

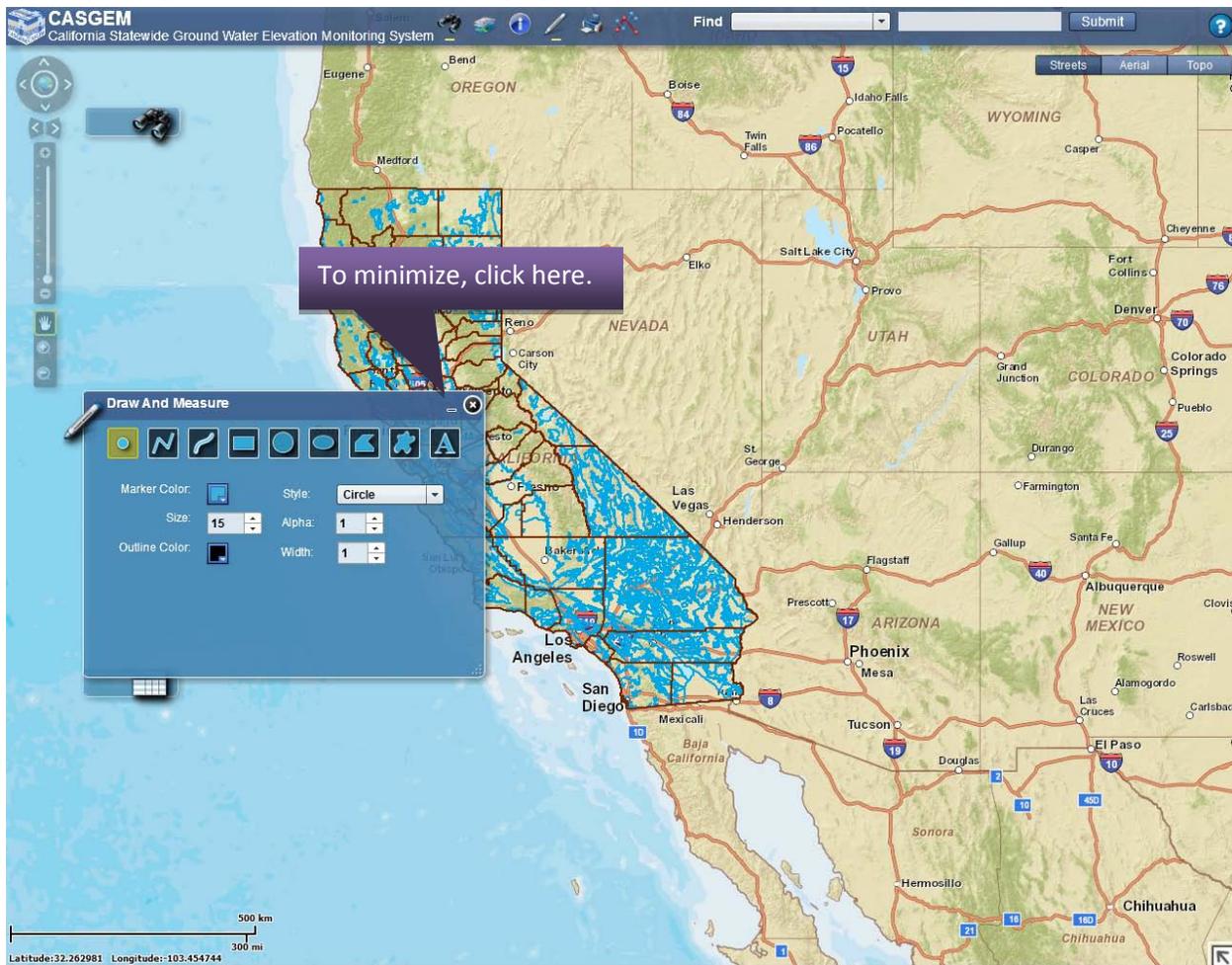
Topics covered in this subsection Include:

- 2.5.8.1 [Measuring the Distance between Two Wells](#)
- 2.5.8.2 [Using the Text Tool](#)

The Draw and Measure feature can be accessed from the Top Bar within the GIS application.



This feature allows users to draw lines, polygons and other shapes on the map connecting/ encompassing wells of their choice and displays the area covered or the distance between wells.



Area Units and Distance Units have options for both US & Metric measurements. The units available for selection are:

Area Units

- Square Meters - Default
- Square Kilometers
- Square Feet
- Square Miles
- Acres

Distance Units

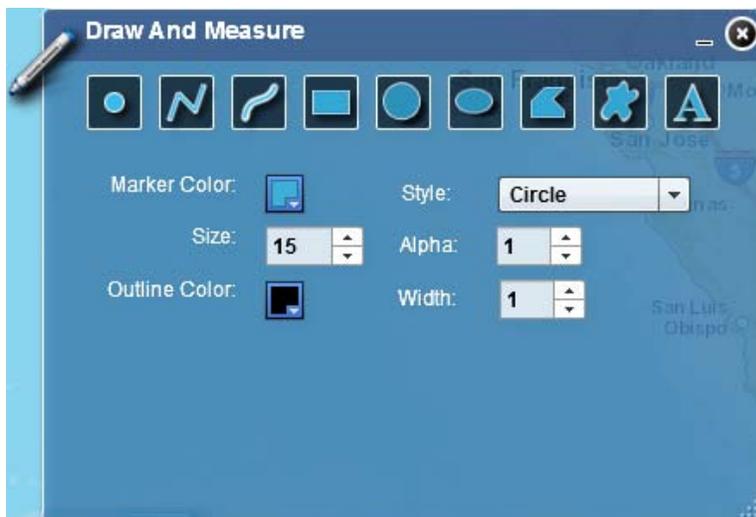
- Meters- Default
- Kilometers
- Feet
- Miles
- Hectares

The tools available within the Draw and Measure functionality are:

- Point
- Line
- Freehand Line
- Rectangle
- Circle
- Ellipse
- Polygon
- Freehand Polygon
- Text Addition

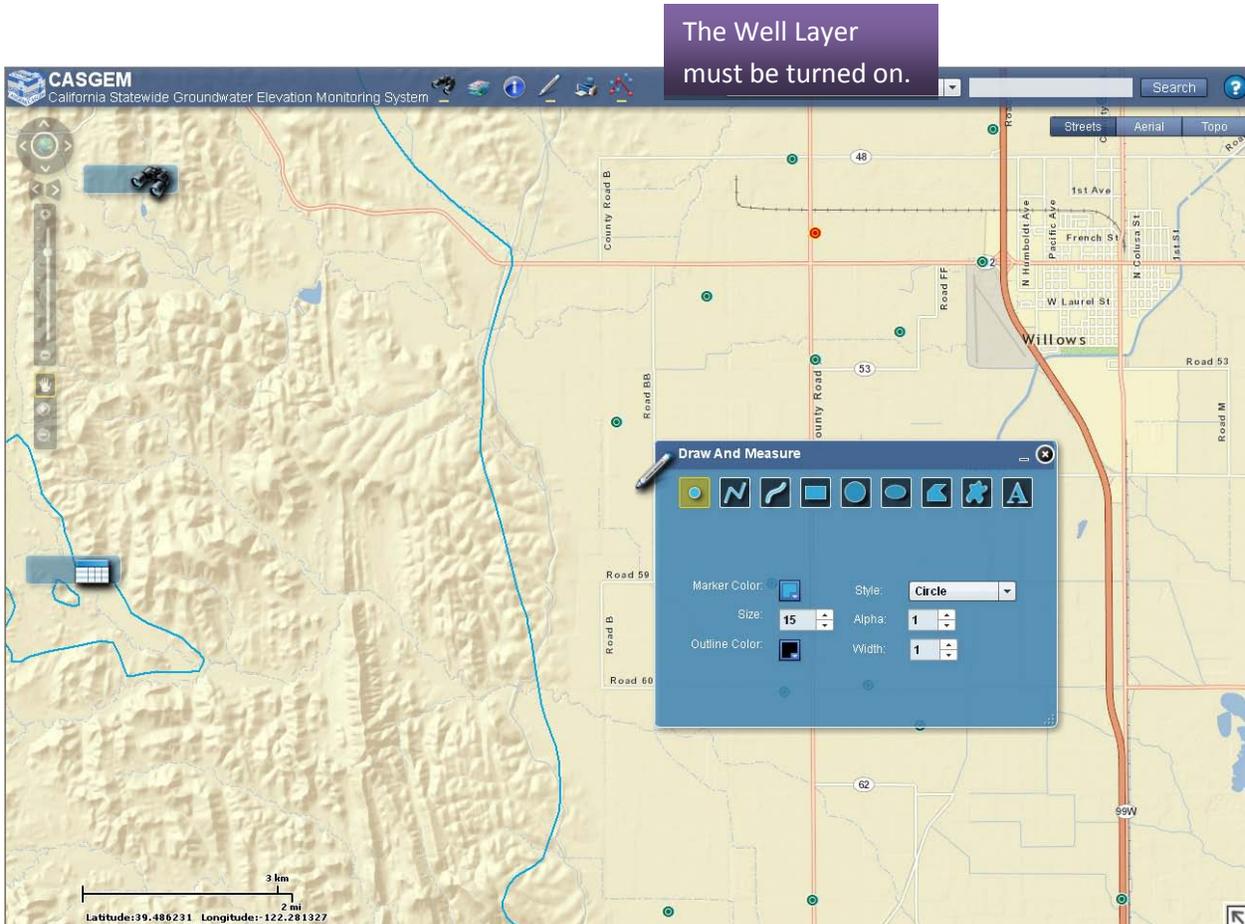
Users can manipulate the following options (as seen below):

- Marker Color
- Marker Size
- Outline Color
- Style
- Alpha (Transparency; 0 to 1)
- Width

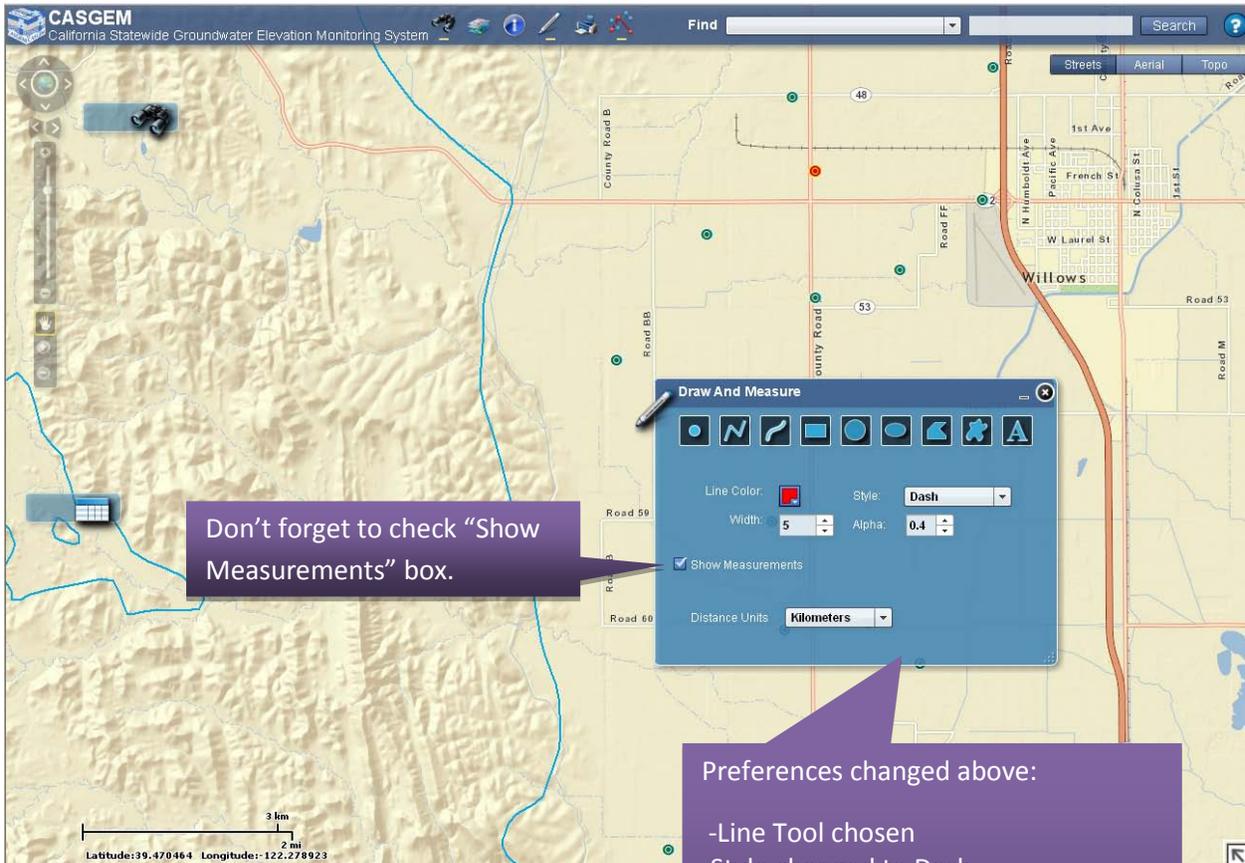


2.5.8.1 Measuring the Distance Between Two Wells

One of the uses of the Draw and Measure function can be measuring the distance between two Wells. To do that, first select an appropriate measuring tool (this example will display the use of the Line tool). Zoom in to the point where both wells can be seen.



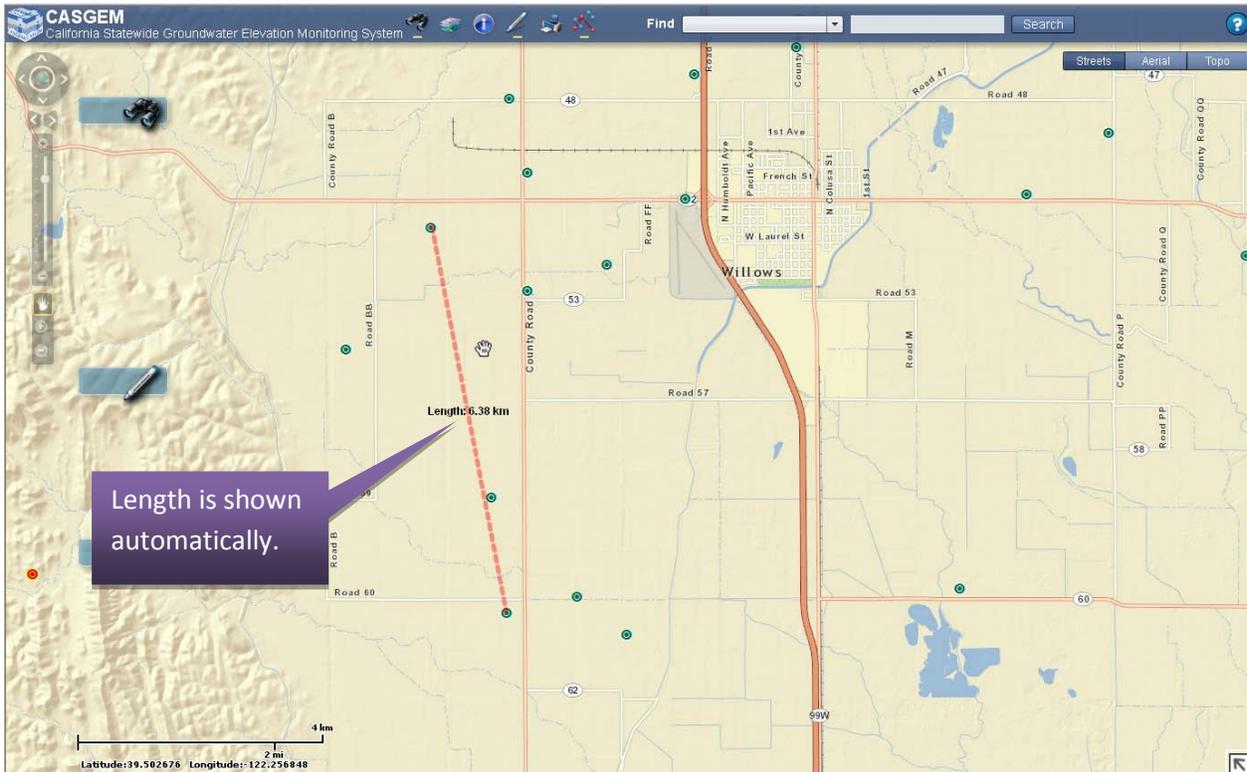
- Change the options within the Draw and Measure table in line with your preferences.



Preferences changed above:

- Line Tool chosen
- Style changed to Dash
- Line Color changed to Red
- Alpha (Transparency) changed to .4
- Show Measurements box checked
- Distance Units changed to Kilometers

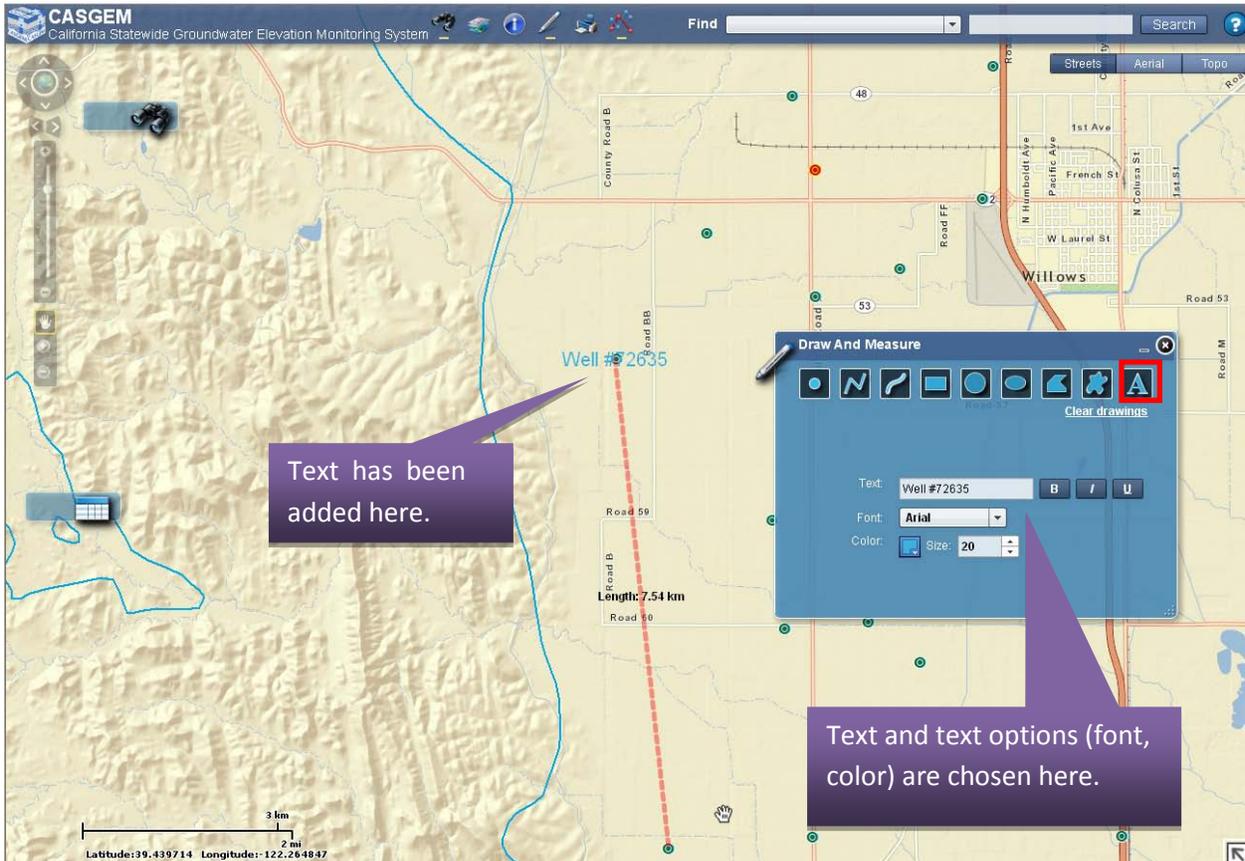
- Draw the Line from the first well to the second. Click to start drawing and double-click to stop.



2.5.8.2 Using the Text Tool

The Text Tool within the Draw and Measure function can be used to add text to a page or a name to a well before saving the page to a PDF.

- Select the Text tool and Enter Text.
- Click the point where the text should be placed (see below)

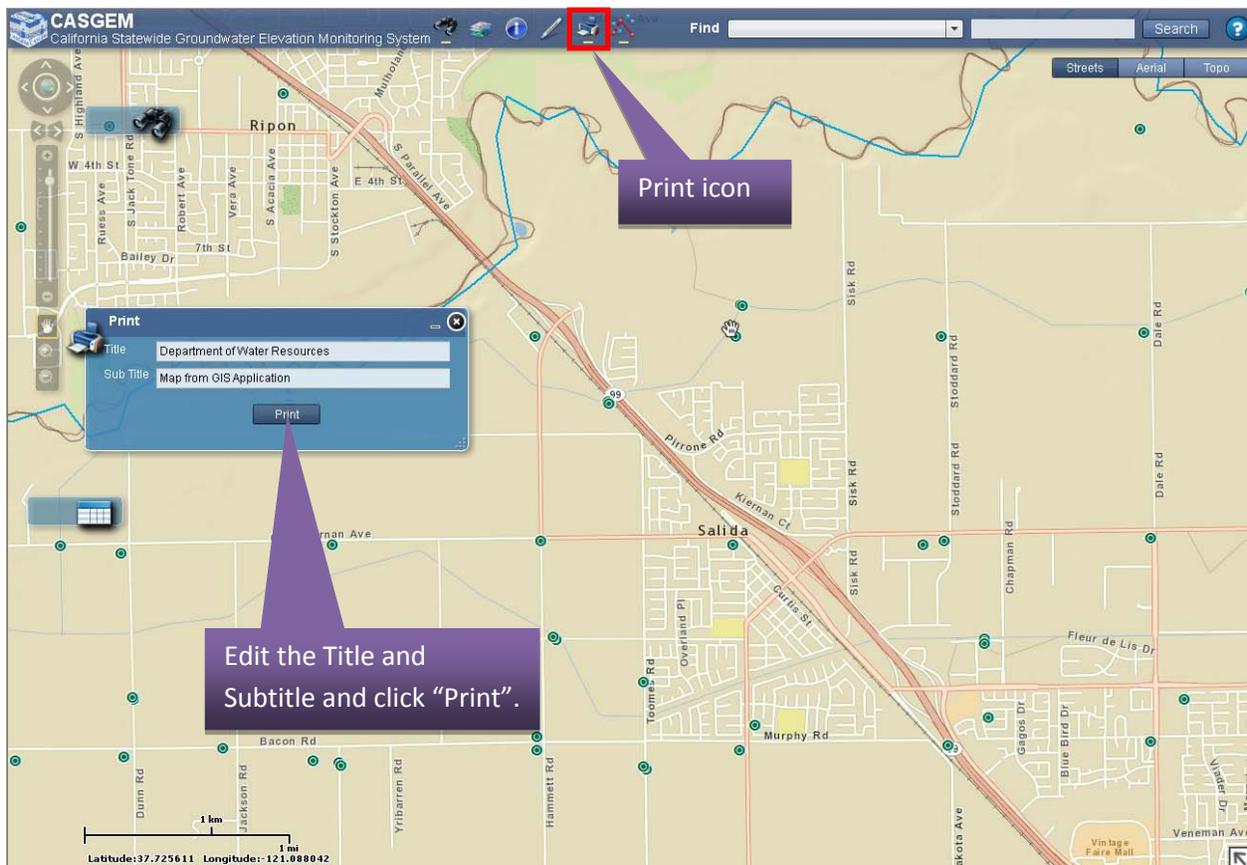


2.5.9 Print

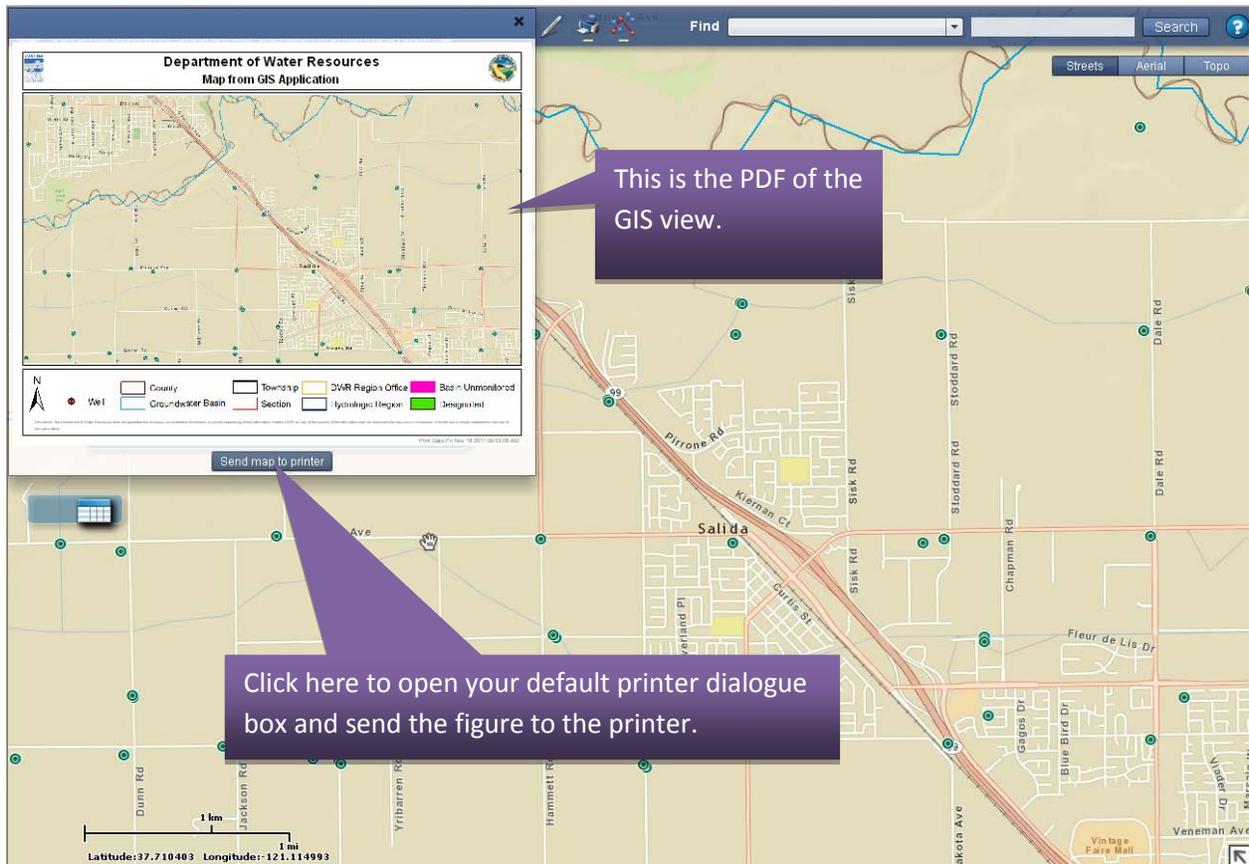
The Print functionality can be found on the Top Bar. It allows you to save (and subsequently print) the current map view.

To print, follow the instructions below:

- To print, select the Print icon on the Top Bar.
- A widget will pop up that prompts the user to give the page a Title/Sub Title.
- Choose a Title and Sub Title and then click "Print". (Keep in mind that the limit for either the Title or Sub Title is 40 characters.)



- You can print this PDF by clicking on the “Send Map to Printer” opening the document, clicking on File and then click on Print (see below). In order to capture the entire map, select landscape as the page orientation on the printer’s settings.



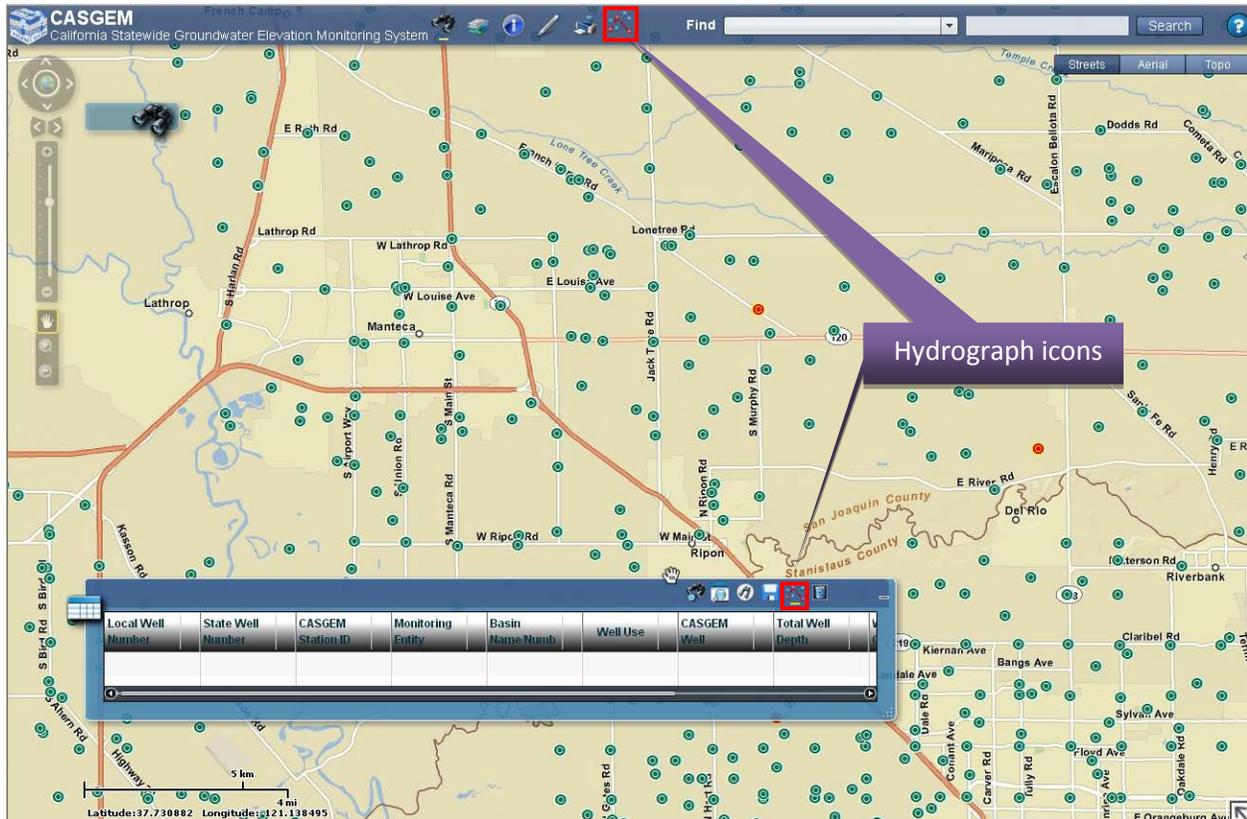
2.5.10 Elevation Data Hydrograph

Topics covered in this subsection include:

2.5.10.1 [Single Well Hydrograph](#)

2.5.10.2 [Multiple Wells Hydrograph](#)

The hydrograph functionality is accessible by selecting the Hydrograph icon from either the Top Bar or the Well Search Results table.



The user can click on a well to view a hydrograph which depicts variations in elevation data across a time span. Ground surface elevation will not be shown in the GIS view and no data grid will be shown in the map view. The user can save a hydrograph, along with a screen print of the area selected, as a PDF file.

2.5.10.1 Single Well Hydrograph

Single well hydrographs can be created by using the hydrograph icon on the Top Bar or Well Search Results table.

Method 1 to Create a Single Well Hydrograph

To view hydrographs using the Top Bar icon, the Well layer must be turned on. Navigate to the location of the well of interest until you can see the well's symbol. With the Top Bar icon selected (as indicated by the yellow underscore), click on the well symbol. A window showing the hydrograph will pop up as shown below. You can click "Save to PDF" to save the hydrograph to a PDF file. If there is no groundwater elevation data associated with the well, an error message will be obtained.

Hydrograph icon selected.

This well symbol was selected.

Hydrographs for selected well will appear.

Click here to save the hydrograph to a file.

Local Well Number	State Well Number	CASGEM Station ID	Monitoring Entry	Basin Name Number	Well Use	CASGEM Well	Total Well Depth

Method 2 to Create a Single Well Hydrograph

The second method available to create a single well hydrograph is use the Well Search Results table. First, click on the row of the desired well (not the hyperlink). Then select the hydrograph icon at the top of the Well Search Results table. A window showing the hydrograph will pop up as shown below. You can click “Save to PDF” to save the hydrograph to a PDF file. If there is no groundwater elevation data associated with the well, an error message will be obtained.

The screenshot displays the CASGEM web interface. On the left, the 'CASGEM Search' panel is visible with various search criteria. The 'Well Search Results' table is shown below, with the first row selected. A 'Well Information Summary' window is open on the right, displaying a hydrograph for the selected well. The hydrograph plots 'Groundwater Elevation (NAVD88 (ft))' on the y-axis (ranging from -14 to 0) against 'Year' on the x-axis (2011 to 2012). The data points are connected by a blue line, showing a significant increase in elevation from 2011 to 2012. A legend at the bottom of the hydrograph window identifies the data series: 'Ground Surface Elevation' (red line), 'Questionable Measurement' (red dot), and '377E29N1212170W01' (blue dot). A 'Save to PDF' button is located at the bottom of the hydrograph window. A purple callout box points to the hydrograph icon in the table header, and another purple callout box points to the selected row in the table.

Hydrograph for selected well appears upon selecting the hydrograph icon on the Well Search Results table.

Local Well Number	State Well Number	CASGEM Station ID	Monitoring Entity	Basin Name/Number	Well Use	CASGEM Well	Total Well	Well Construction
03S07E05J001N	03S07E05J001N	377207N1212147	Department of W	Eastern San Joa	Irrigation	No	Confidential	No
02S07E34R001N	02S07E34R001N	377107N121179	Department of W	Eastern San Joa	Unknown	No	Confidential	No
02S07E33E001N	02S07E33E001N	377207N1212147	Department of W	Eastern San Joa	Unknown	No	Confidential	No
02S07E34A002N	02S07E34A002N	377246N121179	Department of W	Eastern San Joa	Unknown	No	Confidential	No
02S07E35C001N	02S07E35C001N	377249N121171	Department of W	Eastern San Joa	Unknown	No	Confidential	No
02S07E27N001N	02S07E27N001N	377282N121196	Department of W	Eastern San Joa	Unknown	No	Confidential	No

Upon selecting a well, click the hydrograph icon on the Well Search Results table.

The row of the desired well is selected.

2.5.10.2 Multiple Wells Hydrograph

A maximum of five wells can be selected for inclusion on the hydrograph. For these types of multiple well hydrographs, follow the instructions below:

1. Select the group of wells (maximum of 5 wells) from the Well Search Results widget to plot.
2. You can hold the “Ctrl” key down while selecting wells from random locations in the list versus using the “Shift” key to select wells sequentially listed.
3. Click the hydrograph icon on the Well Search Results table to generate the hydrograph plots (as shown below).

The screenshot displays the CASGEM interface. On the left is the 'CASGEM Search' panel with various filters. In the center is a 'Well Search Results' table. On the right is a 'Hydrograph' plot showing groundwater elevation in feet over time for five wells. A callout box points to the hydrograph icon in the table, and another points to the search criteria.

Well Search Results Table:

Local Well Number	State Well Number	CASGEM Station ID	Monitoring Entity	Basin Name Number	Well Use	CASGEM Well	Total Well Depth	Well Construction
03S07E05J001N	03S07E05J001N	3772090121171	Department of W	Eastern San Joa	Irrigation	No	Confidential	No
02S07E34R001N	02S07E34R001N	3772090121172	Department of W	Eastern San Joa	Unknown	No	Confidential	No
02S07E33E001N	02S07E33E001N	3772070121214	Department of W	Eastern San Joa	Unknown	No	Confidential	No
02S07E34A002N	02S07E34A002N	3772090121173	Department of W	Eastern San Joa	Unknown	No	Confidential	No
02S07E35C001N	02S07E35C001N	3772090121174	Department of W	Eastern San Joa	Unknown	No	Confidential	No
02S07E27N001N	02S07E27N001N	3772090121190	Department of W	Eastern San Joa	Unknown	No	Confidential	No

Hydrograph Data (Approximate):

Year	Well 1 (3772090121171)	Well 2 (3772090121172)	Well 3 (3772070121214)	Well 4 (3772090121173)	Well 5 (3772090121174)
2011	-10	-12	-14	-16	-18
2012	-12	-14	-16	-18	-20

Callout 1: Hydrographs for 5 selected wells.

Callout 2: Upon selecting wells, click the hydrograph icon on the Well Search Results table.

Callout 3: You can select and create hydrographs for up to 5 wells from the Well Search Results at a time.

Wells without groundwater elevation data will not be plotted on the hydrograph. Due to system constraints, you will not be able to save multiple well hydrographs to a PDF file

2.5.11 Quick Find for Wells and Basins

Topics covered in this subsection include:

- 2.5.11.1 [Searching for Wells Using Quick Find](#)
- 2.5.11.2 [Searching for Basins](#)

The Quick find feature enables the user to search for a well (Local, CASGEM or SWN) or basin/sub-basin. This feature is available from the Top Bar. **Note: Your search criteria must be match exactly what is in the database in order for the Quick find feature to return results. If you do not know the exact format of the well or basin you are searching for you should use the Advanced Search widget (e.g., the binoculars icon).**



The search criteria, available in the drop-down, are Well Number, Basin/Sub-Basin Number and Basin/Sub-Basin Name.

- Select your search criteria and press Submit, or the Enter key, to search.



2.5.11.1 Searching for Wells Using Quick Find

Select Well Number from the Quick Find drop-down and enter a Well # (Local, CASGEM or SWN). The entire ID must be entered. For searching for wells using a portion of the well ID, use the Search Widget.

Single Well Result

If the result of the Quick Find is a unique well (that is, only one well is associated to the searched well number), the GIS application will zoom in to that well.

The screenshot displays the CASGEM (California Statewide Ground Water Elevation Monitoring System) interface. At the top, a search bar contains the text "Find Well Number" and the input "07N08E02L001M", with a "Submit" button. Below the search bar is a topographic map of a region with various roads and terrain features. A purple callout box labeled "Searched well" points to a specific location on the map. In the bottom-left corner, a "Well Search Results" window is open, displaying a table with the following data:

Local Well Number	State Well Number	CASGEM Station ID	Basin Name/Numb	Well Use	Total Well Depth	Well Construction	Well Completion	Latitude
1111	07N08E02L001M	384853W121070	Cosumnes-5-22	Stockwatering	71	N	Not Available	38.4853

At the bottom of the map, a scale bar shows 3 km and 2 mi, and the coordinates are listed as Latitude:38.468434 and Longitude:-120.966273.

Multiple Wells Result

If the Quick Find function encounters multiple results for the same well number, the GIS application will not zoom in. The resultant wells are highlighted within the initial California map and a Search Results table is opened, displaying detailed information about the wells. You can zoom into the location of a well by clicking on any well row in the table. Click on the hyperlink in the well row to view a hydrograph or the groundwater elevation data.

Search results plotted

Search results details

Local Well Number	State Well Number	CASGEM Station ID	Monitoring Entry	Basin Name/Numbr	Well Use	CASGEM Well	Total Well Depth	W
111	03S11E19C001A	376668N120804	Department of V	Modesto-5-22.0	Unknown	No	Unknown	N
111	04S08E27H001A	375607N121067	Department of V	Turlock-5-22.03	Unknown	No	Unknown	N
111	10S13E31D001A	370235N120599	Delta-Mendota-5		Unknown	No	Unknown	N

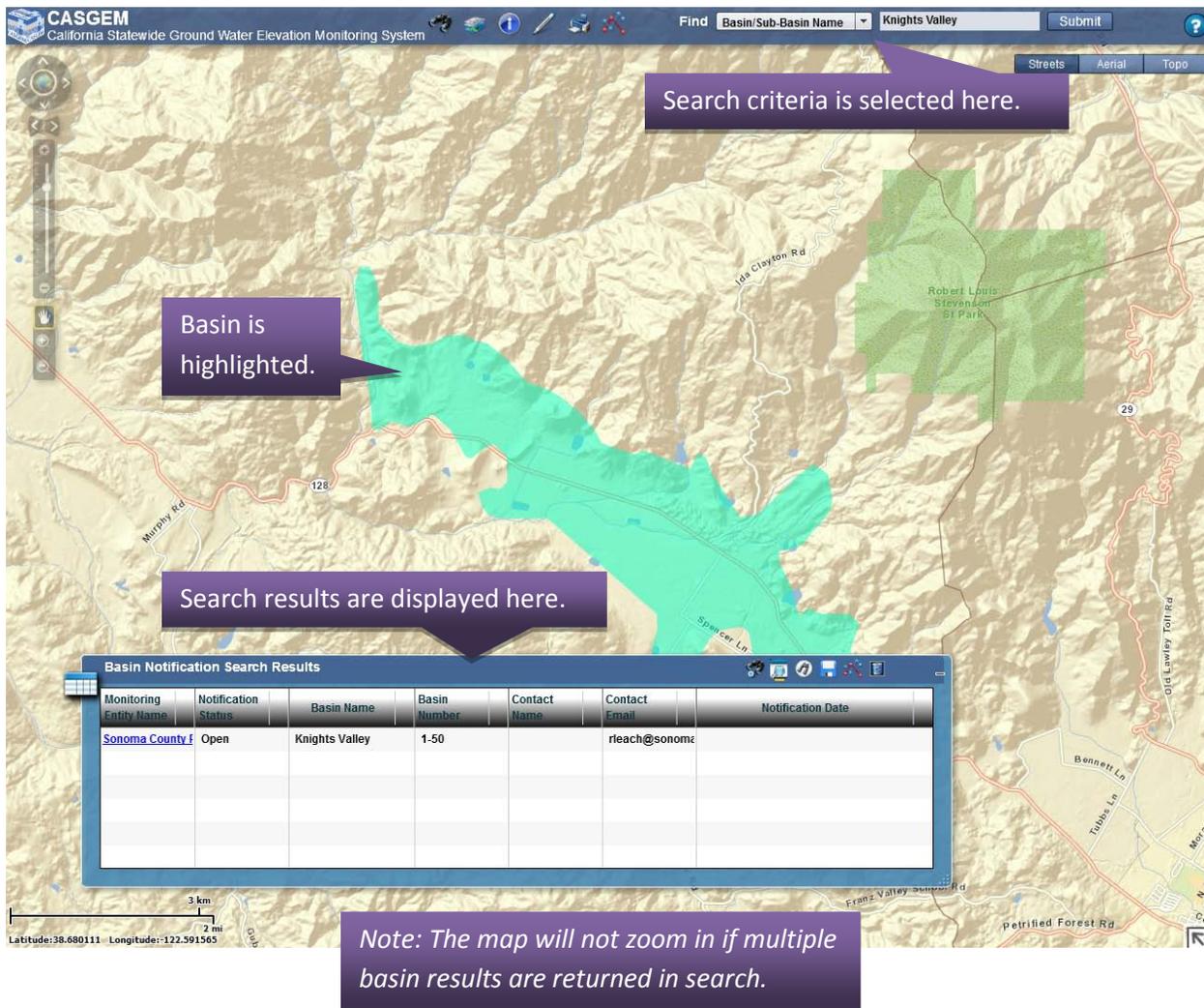
Latitude: 35.458065 Longitude: -130.890754

2.5.11.2 Searching for Basins

The Quick Find function allows the user to search for Basins or Sub-Basins using the Basin/Sub-Basin Number or Name. This function works for “designated” basins only. If an undesignated basin is entered in the search parameters, it will return an error box stating, “No results found.”

To find a basin, follow the instructions below:

- Select “Basin/Sub-Basin Name” or “Basin/Sub-Basin Number” from the Quick Find drop-down.
- Enter the Name or Number of the Basin being searched for.
- Upon clicking Submit, the system will zoom into the Basin/Sub-Basin and display a Search Results table showing details about the result (as seen below). The system will not zoom into the Basin/Sub-Basin if there is more than one result.



Search criteria is selected here.

Basin is highlighted.

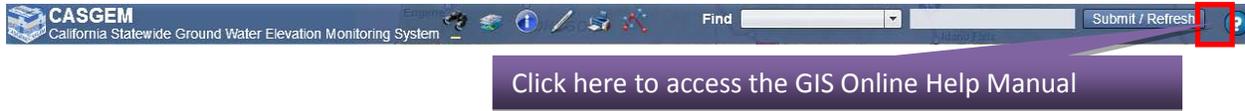
Search results are displayed here.

Monitoring Entity Name	Notification Status	Basin Name	Basin Number	Contact Name	Contact Email	Notification Date
Sonoma County	Open	Knights Valley	1-50		rleach@sonoma.com	

Note: The map will not zoom in if multiple basin results are returned in search.

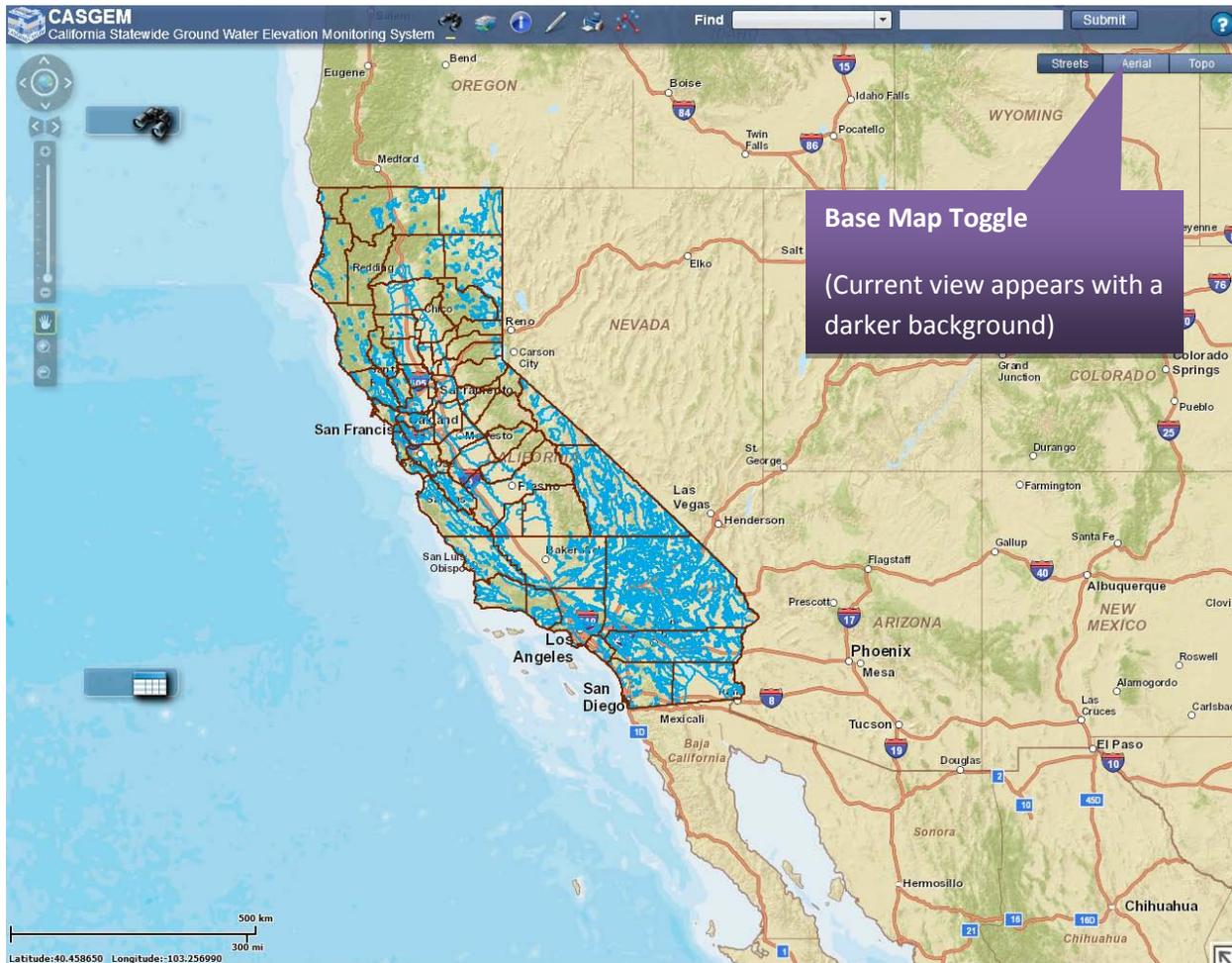
2.5.12 Help Icon

Most questions about the GIS function can be answered by looking through the Online Help Manual. To access the Online Help Manual, click on the question mark icon in the upper right hand corner of the GIS function.



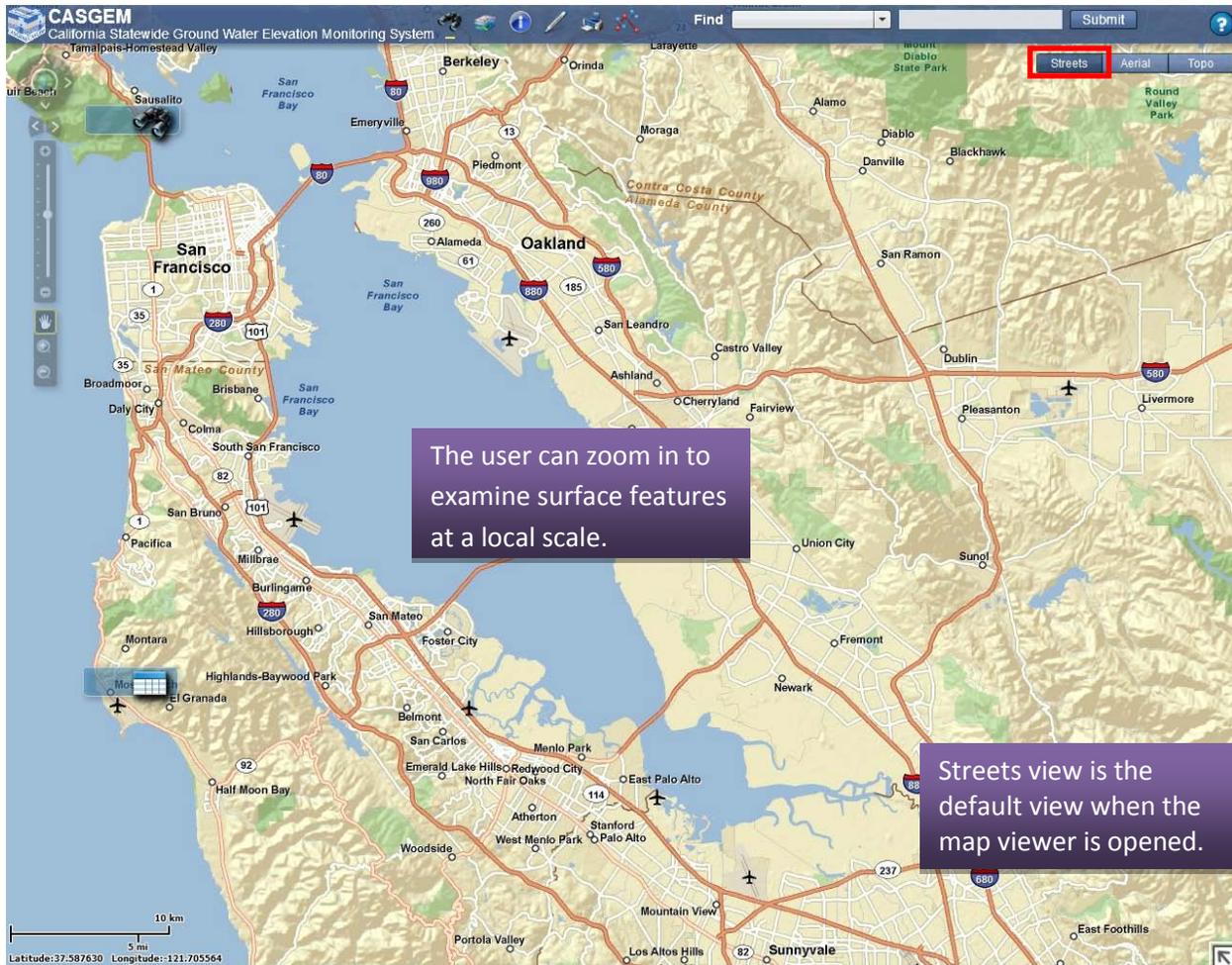
2.5.13 Base Map Toggle

The Base Map Toggle Menu enables GIS application users to easily switch between base maps. Three base maps are available in the GIS viewer: street information, satellite imagery, and topographic data. All other layers in the GIS viewer are projected on top of the base layer that is selected at the time (only one base map is available at a time). In the default Map view, the Base Map Toggle Menu is located in the upper right hand corner of the Map. Clicking one of the Base Map Toggle's three buttons will change the base map displayed in the Viewer.

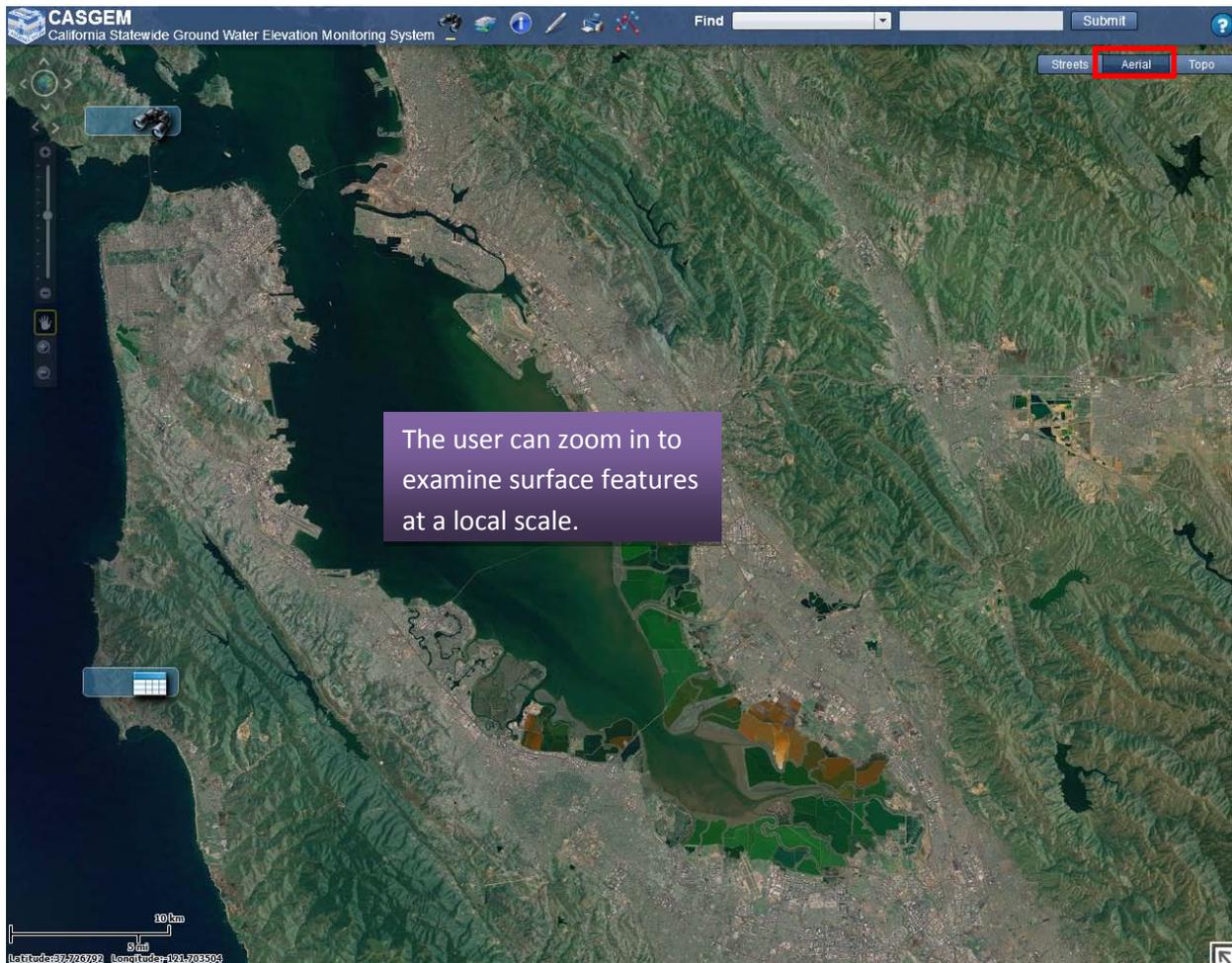


Using Base Map Toggle to Change Base Maps

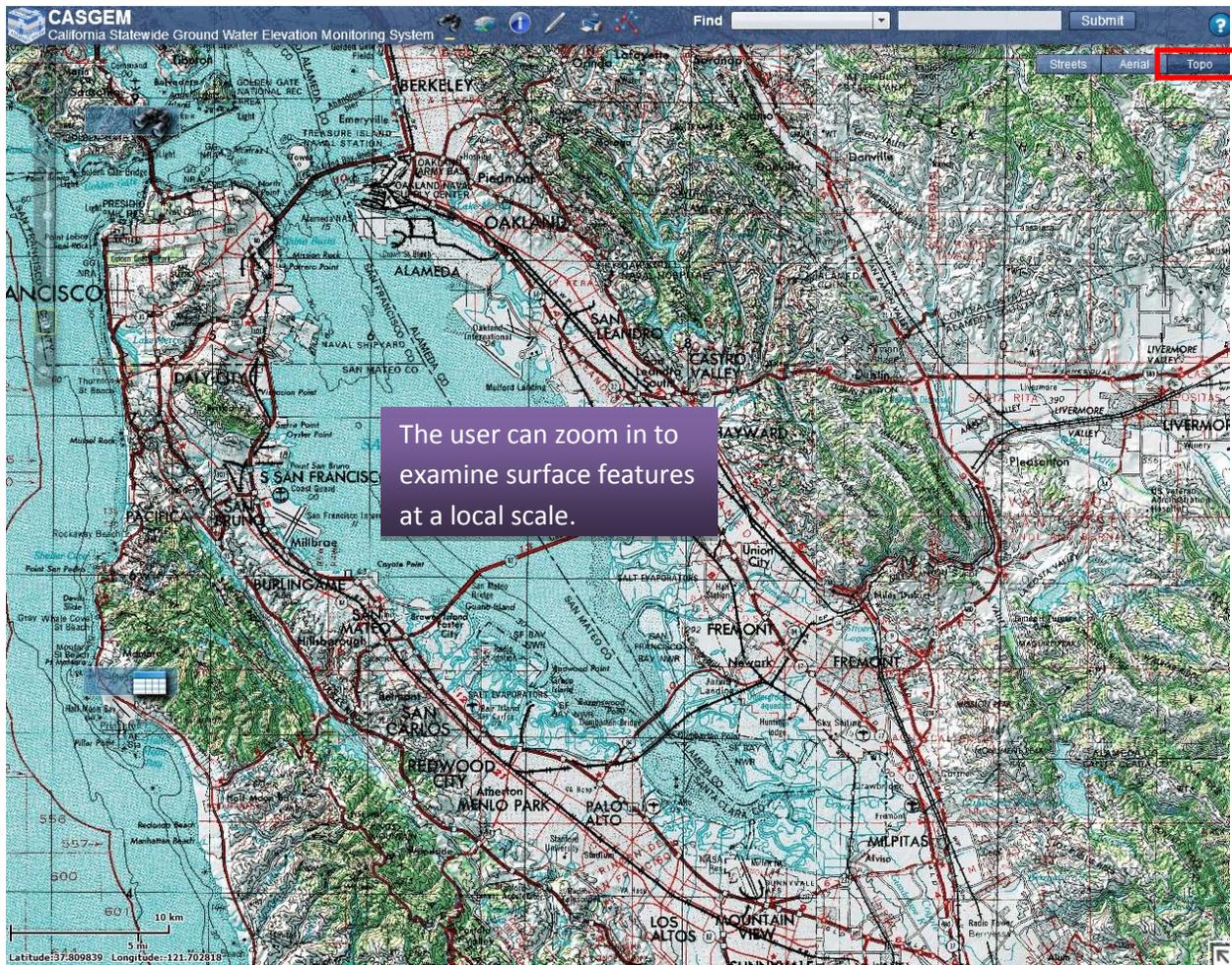
- Click on the Streets tab to view the major roads, streets, and State boundary within the map viewer.



- Click on the Aerial tab to view satellite imagery of the surface of the State within the map viewer.

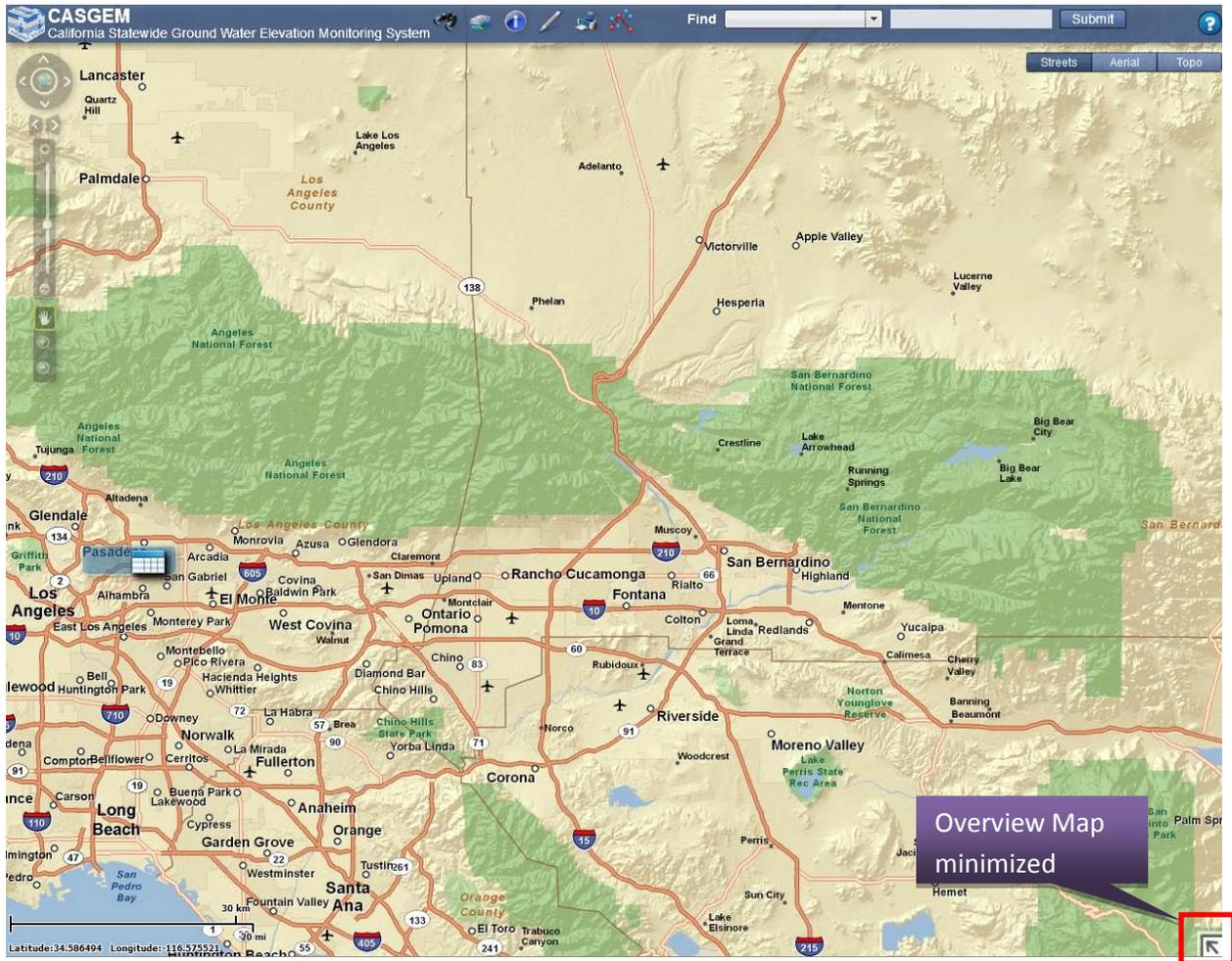


- Click on the Topo tab to view a topographic map base within the map viewer.

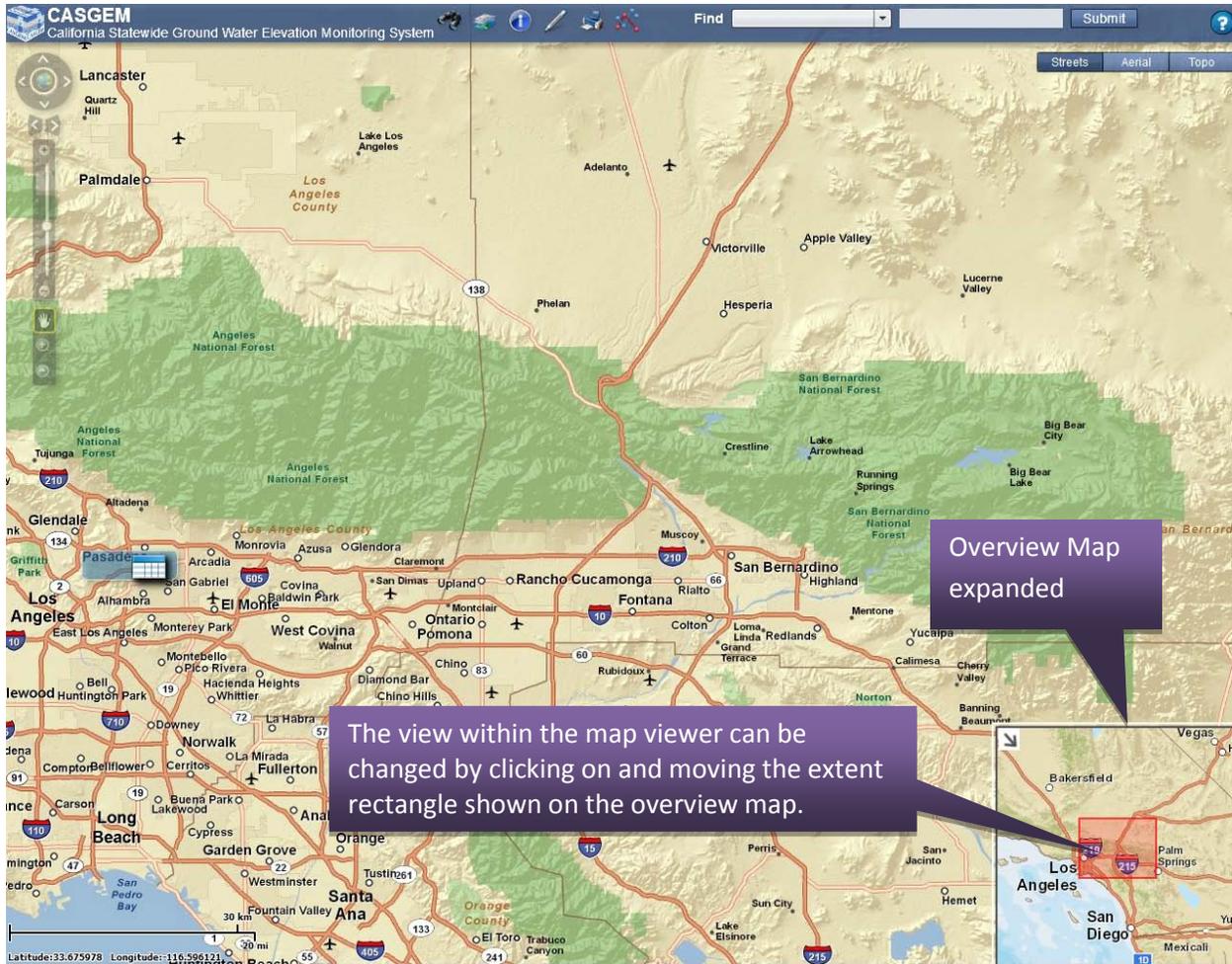


2.5.14 Overview Map

The Overview Map shows the current spatial extent of the map display as a red rectangle (i.e., extent rectangle) relative to the entire spatial extent of the base map service. This menu is located in the lower right corner of the map viewer and is minimized (appears hidden) by default.

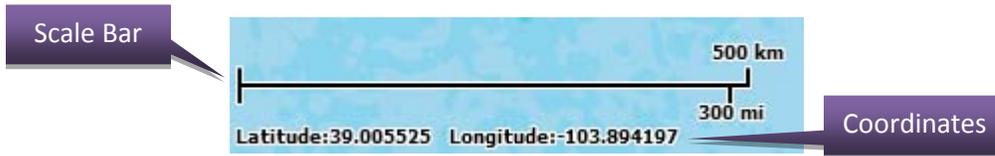


- To open the Overview Map, click on the Map Overview expand arrow on the right hand corner of the map. A small window will open up to show the overview map with a bounding box of the area zoomed in.

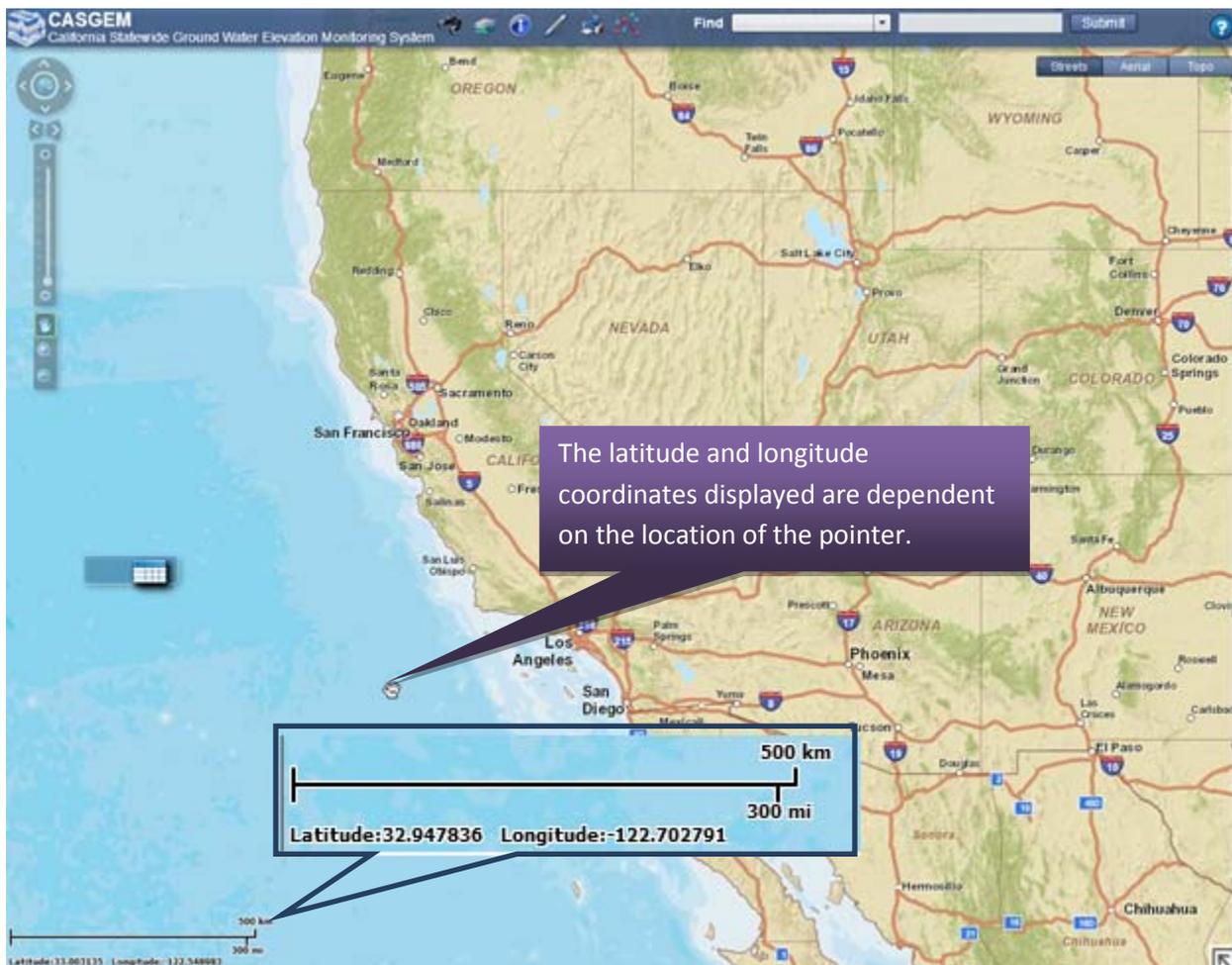


2.5.15 Scale Bar and Coordinates

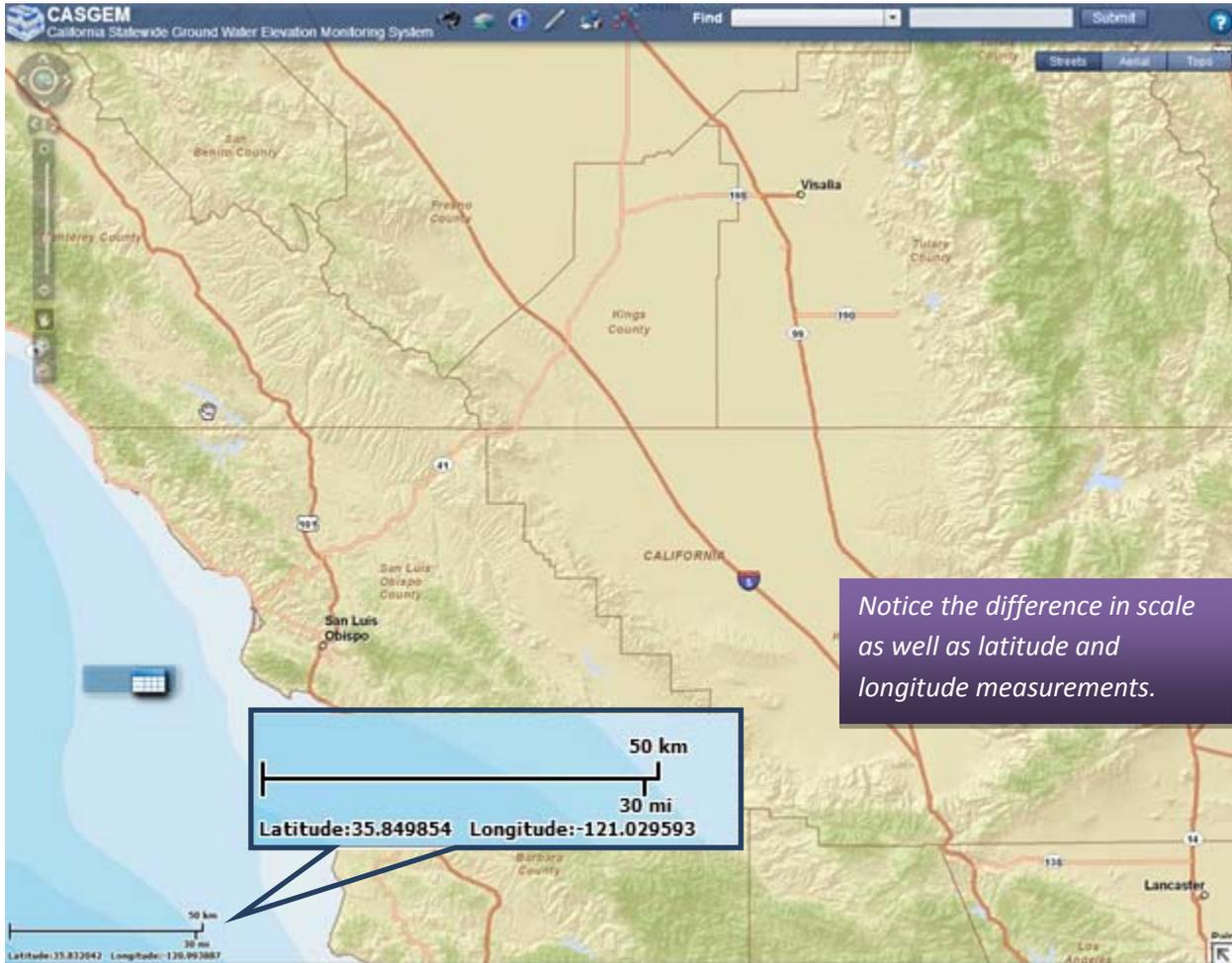
The Scale Bar and Coordinates can be found in the lower left hand corner of the GIS Application.



- The Scale bar enables GIS viewer users to know the reference scale of the map they are viewing. The scale dynamically changes when users perform zoom in and zoom out operations.
- The Coordinates Menu enables x,y (Longitude, Latitude) coordinate values to appear in the GIS viewer as the cursor moves to different locations in the map display.
- The coordinate values change dynamically as the cursor moves and are displayed underneath the Map Scale bar.
- The coordinate values are displayed in Degree Decimal units.

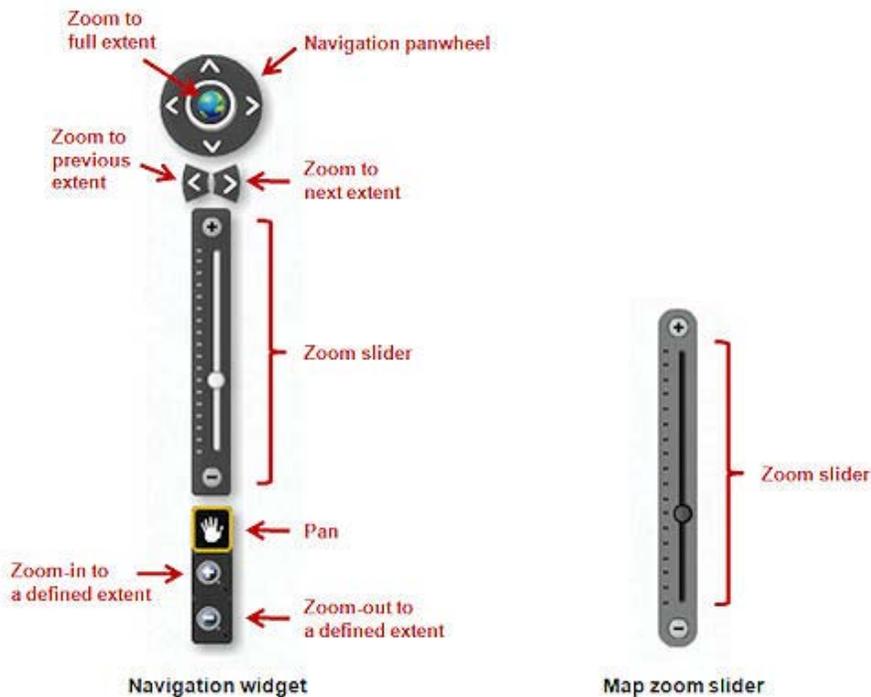
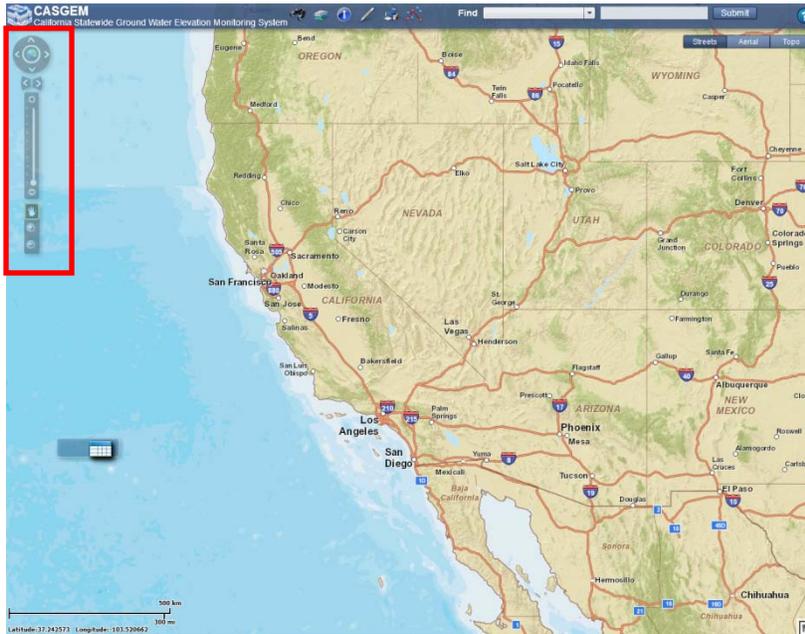


The scale dynamically changes when users perform zoom in and zoom out operations. This can be seen by comparing the screenshot from above to the one below, as they are at different levels of zoom.



2.5.16 Navigation

The Navigation Menu provides a comprehensive set of map navigation controls in the GIS Viewer application. It is located on the left side of the GIS viewer and appears on top of the map display. It becomes transparent when the cursor is not hovering over a navigation control.



2.6 Reports

You will have the ability to generate Reports of the data within the CASGEM system, based on different sets of search criteria. The Reports can be viewed, within the CASGEM web application, as well as exported to Excel and saved to a user's local file system. The Reports section of the User Guide includes the following topics:

- 2.6.1 [Exporting and Printing Reports](#)
- 2.6.2 [Program Level Reports](#)
 - 2.6.2.1 [Report on Number of Wells](#)
 - 2.6.2.2 [Report on Monitored/Unmonitored Basins](#)
 - 2.6.2.3 [Report on Groundwater Management and Monitoring Plans](#)
- 2.6.3 [Water Data Reports](#)
 - 2.6.3.1 [Report of Wells](#)
 - 2.6.3.2 [Report of Monitoring Entities](#)
- 2.6.4 [Elevation Data Reports](#)

The Reports page is accessible from the Reports tab. All users can also access the Reports page by selecting the Reports submenu from the Public View tab. Keep in mind that the public view of the Reports page has certain limitations (as described in the Reports subsection of the Public View section below).

There are three types and six subtypes of reports available (see screenshot below). They are as follows:

1. Program Level Reports
 - a. Report on Number of Wells
 - b. Report on Monitored/Unmonitored Basins
 - c. Report on Groundwater Management and Monitoring Plans
2. Water Data Reports
 - a. Report of Wells
 - b. Report of Monitoring Entities
3. Elevation Data Reports
 - a. Report of Groundwater Elevation

Home	Notifications	Manage Wells	View Map	Reports	Administration	My Profile	Public View	Sign Out
----------------------	-------------------------------	------------------------------	--------------------------	-------------------------	--------------------------------	----------------------------	-----------------------------	--------------------------

Reports

- [Report on Number of Wells](#)
- [Report on Monitored/Unmonitored Basins](#)
- [Report on Groundwater Management and Monitoring Plans](#)
- [Report of Wells](#)
- [Report of Monitoring Entities](#)
- [Report of Groundwater Elevation Data](#)

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

- The actual content of the separate report types/subtypes will be explained in the sections that follow.

2.6.1 Exporting and Printing Reports

The Export and Print functionalities of the Reports page are displayed in a bar above the search results of a Report (as seen below).

The screenshot shows the CASGEM Online System interface. At the top, there is a navigation bar with links: Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The user is logged in as Jane Smith for Test Organization as Administrator. The main heading is "Report on Number of Wells".

Filter Report

Select a Search Criteria: CASGEM Well Voluntary Well

Select a Filtering Criteria: By Groundwater Basin/Subbasin name and number By Regional Office By Monitoring Entity By Date

Monitoring Entity: By County

Monitoring Entity dropdown: Tehama County Flood Control & Water Conservation District, Test Organization

Buttons: Run Report, Clear Selection

Export and Print bar: 1 of 1 | Export to the selected format | Export | Print

Number Of Wells

Description	Count
Test Organization	7

Total Number of Voluntary Wells - 44216
Total Number of Wells - 44706

Report Generated on 9/26/2011 11:28:04 AM Page 1

To Export, click on the pull-down menu arrow to select a format. The following formats are available:

1. Acrobat (PDF) file
2. CSV (comma delimited)
3. Excel
4. Rich Text Format
5. TIFF file
6. Web Archive

Upon selecting a format, click on Export and then Save the file according to the opened dialogue box.

To Print, click on the printer icon. Follow instructions on the browser window that pops up.

2.6.2 Program Level Reports

This section contains the following topics:

- 2.6.2.1 [Report on Number of Wells](#)
- 2.6.2.2 [Report on Monitored/Unmonitored Basins](#)
- 2.6.2.3 [Report on Groundwater Management and Monitoring Plans](#)

2.6.2.1 Report on Number of Wells

This report type provides a total count of wells depending on different search criteria. The user can search for CASGEM wells or Voluntary wells.

The search is based on the following criteria:

- a. By Groundwater Basin/Sub-basin Name and Number
- b. By Monitoring Entity
- c. By One or More County
- d. By Date (mm/yyyy) – Current date if NO date is mentioned
- e. By Regional Office

Select CASGEM or Voluntary Well, and then select filters for your search (as seen below).

- Click on Run Report to run the report on Number of Wells.

CASGEM Online System

Welcome: Aman Ahuja for Department of Water Resources as Reviewer

Home | Notifications | Manage Wells | View Map | Reports | Public View | Sign Out

Report on Number of Wells

Filter Report

Select a Search Criteria
 CASGEM Well Voluntary Well

Select a Filtering Criteria
 By Groundwater Basin/Subbasin name and number By Regional Office
 By Monitoring Entity By Date
 By County

County
-- All Counties --
Alameda
Alpine

Run Report **Clear Selection**

Back to Top | Help | Comments or Suggestions

Selecting "All Counties" will result in statewide result.

Click the "Run Report" button to obtain the filtered selection.

Based on the selection criteria mentioned above, the following search results will be generated (as a numerical value):

- Total Number of CASGEM Wells
- OR
- Total Number of Voluntary Wells
- AND
- Total Number of Wells

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Report on Number of Wells

Filter Report

Select a Search Criteria: CASGEM Well Voluntary Well

Select a Filtering Criteria: By Groundwater Basin/Subbasin name and number By Regional Office
 By Monitoring Entity By Date
 By County

Monitoring Entity:

1 of 1 | Export to the selected format | Export

Number Of Wells

Description	Count
Test Organization	27

Total Number of CASGEM Wells - 490
 Total Number of Wells - 44706

Report Generated on 9/26/2011 10:50:40 AM

Page 1

Select desired format and click Export to export and save the Report.

Search Results

2.6.2.2 Report on Monitored/Unmonitored Basins

This report provides a list of basins depending on different search criteria. The user can search for Monitored Basins or Unmonitored Basins.

For Monitored Basins, you can base the search on one of the following criteria (as seen below):

- a. By Groundwater Basin/Sub-basin Name and Number
- b. By Monitoring Entity
- c. By Authority type
- d. By Date (mm/yyyy) include in the title (as of date)
- e. By Date Range (To view the Status Changes)

The screenshot shows the CASGEM Online System interface. At the top left is the CASGEM Online System logo. To the right, a welcome message reads: "Welcome: Jane Smith for Test Organization as Administrator". Below this is a navigation menu with buttons for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The main content area is titled "Reports on Basins" and contains a "Filter Report" section. This section has two main parts: "Select a Search Criteria" with radio buttons for "Monitored" (selected) and "Unmonitored"; and "Select a Filtering Criteria" with radio buttons for "By Authority Type", "By Date", "By Groundwater Basin/Subbasin name and number", "By Date Range", and "By Monitoring Entity". At the bottom of the filter section are two buttons: "Run Report" and "Clear Selection". At the very bottom of the page, there are links for "Back to Top", "Help", and "Comments or Suggestions".

Based on the selection criteria mentioned above, the following search results will be generated:

- **Areas being Monitored;** containing the following information:
 - a. Total Number of Monitoring Entities
 - b. Total Number of Groundwater Basins/Sub-basins being Monitored
 - c. Total Number of CASGEM Wells
 - d. Total Number of Voluntary Wells
 - e. Total Number of Wells
 - f. Groundwater Basin/Sub-basin Name
 - g. Groundwater Basin/Sub-basin Number
 - h. Monitoring Entity
 - i. Authority Type
 - j. Number of CASGEM Wells

Reports on Basins

Filter Report

Select a Search Criteria

Monitored Unmonitored

Select a Filtering Criteria

By Authority Type By Date
 By Groundwater Basin/Subbasin name and number By Date Range
 By Monitoring Entity

Monitoring Entity

Run Report **Clear Selection**

1 of 2 | Export to the selected format | Export

Areas being Monitored

Groundwater Basin/Subbasin Name	Groundwater Basin/Subbasin Number	Basin Portion	Monitoring Entity	Authority Type	No. of CASGEM Wells
Smith River Plain	1-1		Test Organization	Ground Water Management Agency	0
Eel River Valley	1-10		Test Organization	Water Replenishment District	0
Bray Town Area	1-17		Test Organization	Ground Water Management Agency	0
Anderson Valley	1-19		Test Organization	Voluntary Cooperative Groundwater Monitoring Association	0
Redwood Creek Area	1-26		Test Organization	Water Master or Water Management Engineer	0
Honeydew Town Area	1-29		Test Organization	Ground Water Management Agency	0
Santa Clara	2-9.02	Monroe Portion	Test Organization	Ground Water Management Agency	0
Half Moon Bay Terrace	2-22		Test Organization	Ground Water Management Agency	9
Eastern San Joaquin	5-22.01		Test Organization	Ground Water Management	2

NOTE: You must use vertical scroll bar of your viewer window to reach the base of large tables.

For Unmonitored Basins, the search is based on the following criteria (as seen below):

- a. By Date (mm/yyyy) include in the title (as of date)
- b. By Date Range (To view the Status Changes)

The screenshot shows the CASGEM Online System interface. At the top left is the CASGEM Online System logo. To the right, a welcome message reads: "Welcome: Jane Smith for Test Organization as Administrator". Below this is a navigation menu with buttons for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The main content area is titled "Reports on Basins" and contains a "Filter Report" section. Under "Filter Report", there are two sections: "Select a Search Criteria" with radio buttons for "Monitored" and "Unmonitored" (the latter is selected), and "Select a Filtering Criteria" with radio buttons for "By Date" and "By Date Range". At the bottom of the filter section are two buttons: "Run Report" and "Clear Selection". At the very bottom of the page, there are links for "Back to Top", "Help", and "Comments or Suggestions".

- **Areas not being Monitored;** containing the following information:
 - a. Total Number of Groundwater Basins/Sub-basins not being Monitored
 - b. Groundwater Basin/Sub-basin Name
 - c. Groundwater Basin/Sub-basin Number

Reports on Basins

Filter Report

Select a Search Criteria Monitored Unmonitored

Select a Filtering Criteria By Date By Date Range

Date 

1 of 8  

Areas Not being Monitored

Groundwater Basin/Subbasin name	Groundwater Basin/Subbasin number
Smith River Plain	1-1
Upper Klamath Lake Basin	1-2
Upper Klamath Lake Basin - Tulelake	1-2.01
Upper Klamath Lake Basin- Lower Klamath	1-2.02
Butte Valley	1-3
Shasta Valley	1-4
Scott River Valley	1-5
Hayfork Valley	1-6

2.6.2.3 Report on Groundwater Management and Monitoring Plans

This report provides a list of plans depending on different search criteria. The user can search for Groundwater Management Plans or Monitoring Plans from the screen below.

The screenshot displays the CASGEM Online System interface. At the top left is the CASGEM logo with the text 'CASGEM Online System'. To the right, a welcome message reads 'Welcome: Jane Smith for Test Organization as Administrator'. Below this is a navigation menu with buttons for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The main heading is 'Report on Groundwater Management and Monitoring Plans'. Underneath, there is a 'Filter Report' section with the text 'Select a Filtering Criteria'. Three radio button options are listed: 'By Authority Type', 'By Monitoring Entity', and 'By Groundwater Basin/Subbasin name and number'. At the bottom of this section are two buttons: 'Run Report' and 'Clear Selection'. At the very bottom of the page, there are links for 'Back to Top', 'Help', and 'Comments or Suggestions'.

The search can be based on one of the following criteria:

- a. By Groundwater Basin/Sub-basin Name and Number
- b. By Monitoring Entity
- c. By Authority Type

The following screenshot is an example of a groundwater management and monitoring plan report based on selection of the “Monitoring Entity” criteria and selection of a specific ME, in this case called “Test Organization.”

Report on Groundwater Management and Monitoring Plans

Filter Report

Select a Filtering Criteria

- By Authority Type
- By Monitoring Entity
- By Groundwater Basin/Subbasin name and number

Monitoring Entity

Tehama County Flood Control & Water Conservation District

Test Organization

Run Report Clear Selection

1 of 6 Export to the selected format Export

Groundwater Management and Monitoring Plans

Authority Type	Monitoring Entity	Groundwater Basin/Subbasin Name	Groundwater Basin/Subbasin Number	Groundwater Management Plan	Monitoring Plan
Ground Water Management Agency	Test Organization	Half Moon Bay Terrace	2-22		\\nas_devapp.ad.water.ca.gov\BusDevAppdocs\OSS\5544\422\report_txt_08192011142906.txt
Ground Water Management Agency	Test Organization	Honeydew Town Area	1-29		\\nas_devapp.ad.water.ca.gov\BusDevAppdocs\OSS\5544\422\report_txt_08192011142906.txt

2.6.3 Water Data Reports

This section contains the following topics:

- 2.6.3.1 [Report of Wells](#)
- 2.6.3.2 [Report of Monitoring Entities](#)

2.6.3.1 Report of Wells

This report provides information on Wells depending on different search criteria. The user can search for CASGEM and/or Voluntary Wells.

The search is based on the following criteria:

- a) By Authority type
- b) By Groundwater Basin/Sub-basin Name and Number
- c) By Monitoring Entity
- d) By County
- e) By Region Office
- f) By Well Group

The screenshot shows the CASGEM Online System interface. At the top, there is a logo for CASGEM Online System and a welcome message: "Welcome: Jane Smith for Test Organization as Administrator". Below the logo is a navigation menu with the following items: Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The main content area is titled "Reports of Wells" and contains a "Filter Report" section. This section has two sub-sections: "Select a Search Criteria" with radio buttons for "CASGEM" and "Voluntary", and "Select a Filtering Criteria" with radio buttons for "By Authority Type", "By Groundwater Basin/Subbasin name and number", "By Monitoring Entity", "By County", "By Region Office", and "By Well Group". At the bottom of the filter section are two buttons: "Run Report" and "Clear Selection". At the very bottom of the page, there are links for "Back to Top", "Help", and "Comments or Suggestions".

Based on the selection criteria mentioned above, the following data elements will be generated:

1. State Well Number
2. CASGEM Well Number
3. Local Well Designation
4. ME Authority Type
5. Monitoring Entity
6. Co-operating Agency Association (if Any)
7. Groundwater Basin/Sub-basin Name
8. Groundwater Basin/Sub-basin Number
9. County
10. Type of Well - CASGEM Well/Voluntary Well
11. Status of Well – Active/Inactive
12. Well Usage

13. Total Well Depth
14. Measurement Count (No. of Elevation Data records)
15. Earliest Elevation Measurement Date
16. Most recent Elevation Measurement Date
17. Minimum Groundwater elevation measured
18. Minimum Groundwater elevation Measurement Date
19. Maximum Groundwater elevation measured
20. Maximum Groundwater elevation Measurement Date
21. Latitude
22. Longitude



Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Reports of Wells

Filter Report

Select a Search Criteria: CASGEM Voluntary

Select a Filtering Criteria:

- By Authority Type
- By County
- By Groundwater Basin/Subbasin name and number
- By Region Office
- By Monitoring Entity
- By Well Group

Monitoring Entity:

Tehama County Flood Control & Water Conservation District

Test Organization

1 of 1 | Export to the selected format | Export

Well Data

State Well Number	CASGEM Well Number	Local Well Designation	Authority Type	Monitoring Entity (ME)	Co-operating Agency	Groundwater Basin/Subbasin Name
04N24E17H001S	344442N1144797W001	04N24E17H001S		Test Organization		
01S04W23E001M	378321N1222755W001	01S04W23E001M		Test Organization		
02S07E20R002M	377406N1212160W001	02S07E20R002M		Test Organization		
04N01E05F001M	382239N1218929W001	04N01E05F001M		Test Organization		

NOTE: This report has a horizontal scroll at the base which allows you to view all of the 22 column values. You must use vertical scroll bar of your viewer window to reach the base of large tables.

2.6.3.2 Report of Monitoring Entities

This report provides a listing of MEs within the CASGEM system. **Note: the Public report returns only Designated Monitoring Entities, whereas the DWR/ME report returns all Designated, Conditionally Designated, and non-designated Monitoring Entities.**

The search is based on the following criteria:

- a) By Authority type
- b) By Groundwater Basin/Sub-basin name and number
- c) By Region Office

The screenshot displays the CASGEM Online System interface. At the top left is the CASGEM Online System logo. To the right, a welcome message reads: "Welcome: Jane Smith for Test Organization as Administrator". Below this is a navigation menu with buttons for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The main content area is titled "Report of Monitoring Entities" and contains a "Filter Report" section. Under "Filter Report", there is a label "Select a Filtering Criteria" followed by three radio button options: "By Authority Type", "By Groundwater Basin/Subbasin name and number", and "By Region Office". Below these options are two buttons: "Run Report" and "Clear Selection". At the bottom of the page, there is a footer with links for "Back to Top", "Help", and "Comments or Suggestions".

Based on the selection criteria mentioned above, the following data elements will be generated:

1. Monitoring Entity
2. Authority Type
3. Last Elevation Data Submitted
4. Associated Well Count

Report of Monitoring Entities

Filter Report

Select a Filtering Criteria

- By Authority Type
- By Region Office
- By Groundwater Basin/Subbasin name and number

Region Office

Northern Region Office
 North Central Region Office
 South Central Region Office

Run Report Clear Selection

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Monitoring Entities

Monitoring Entity	Authority Type	Last Elevation Data Submitted	Associated Well Count
Global Touchpoints Inc.	Voluntary Cooperative Groundwater Monitoring Association		0
Global Touchpoints Inc.	Voluntary Cooperative Groundwater Monitoring Association		0
Hemal's Org	Water Master or Water Management Engineer		0
Acme Water	County Not Managing Groundwater Basin or Subbasin		0
San Joaquin County Flood Control and Water Conservation District	Ground Water Management Agency		0
San Joaquin County Flood Control and Water Conservation District	Ground Water Management Agency		0

2.6.4 Elevation Data Reports

This report provides Elevation Data of wells.

The search is based on choosing a data range and one of the following search criteria:

- a) Well Status (CASGEM/Voluntary)
- b) Well Group
- c) Monitoring Entity
- d) Groundwater Basin/Sub-basin name and number
- e) County

The screenshot displays the CASGEM Online System interface. At the top left is the CASGEM logo. To its right, the text 'CASGEM Online System' is displayed. A welcome message reads 'Welcome: Jane Smith for Test Organization as Administrator'. Below this is a navigation menu with buttons for 'Home', 'Notifications', 'Manage Wells', 'View Map', 'Reports', 'Administration', 'My Profile', 'Public View', and 'Sign Out'. The main content area is titled 'Report of Groundwater Elevation Data'. Under the heading 'Filter Report', there are two sections: 'Select a Date Range' with 'From' and 'To' date pickers, and 'Select a Filtering Criteria' with five radio button options: 'By Well Status (CASGEM/Voluntary)', 'By Groundwater Basin/Subbasin name and number', 'By Monitoring Entity', 'By County', and 'By Well Group'. At the bottom of the form are two buttons: 'Run Report' and 'Clear Selection'. A footer bar contains links for 'Back to Top', 'Help', and 'Comments or Suggestions'.

Based on the selection criteria mentioned above, the following data elements will be generated:

1. CASGEM ID
2. Local Well Number
3. State Well Number
4. Date
5. Military Time (PST)
6. NM
7. QM
8. Reading @ RP
9. Reading @ WS
10. RP to WS
11. RP Elev.
12. GS Elev.
13. WSE
14. GS to WS
15. Measurement Method
16. Measurement Accuracy
17. Collecting/ Co-op Agency
18. Voluntary or CASGEM measurement
19. Comments

Report of Groundwater Elevation Data

Filter Report

Select a Date Range From 03/09/2009 To 09/26/2011

- Select a Filtering Criteria
- By Well Status (CASGEM/Voluntary)
 - By Groundwater Basin/Subbasin name and number
 - By Monitoring Entity
 - By County
 - By Well Group

Monitoring Entity

- Tehama County Flood Control & Water Conservation District
- Test Organization**

Run Report Clear Selection

1 of 3 Export to the selected format Export

Groundwater Elevation Data

CASGEM ID	Local Well Number	Date	Military Time (PST)	No Measurement	Questionable Measurement	Reading @RP	Reading @W!
355000N1203628W001	34N21S3876H123	2/23/2011	13:45			7	12
405781N1242002W001	02N01W08B001H	2/28/2011	10:25			21.3240	7.3240

NOTE: This report has a horizontal scroll at the base of the table which allows you to view all of the 19 column values. For large tables, you need to use your window vertical scroll bar to reach the base of the table.

2.7 Administration

The Administration tab functionality is only available to users with an administrator role. Within this tab, Administrators can view and edit organization profiles and manage users within their organizations. Both of these capabilities are described below.

CASGEM Online System

Welcome: UAT User 1 for UAT Organization 1 as Administrator

Home | Notifications | Manage Wells | View Map | Reports | **Administration** | My Profile | Public View | Sign Out

Home

Organization Profile
Manage Users

Depending on user role, tabs shown may be different.

Welcome to the California Statewide Groundwater Monitoring (CASGEM) Online System

The CASGEM Online System now allows you to:

- Register as an "Administrator" for a Monitoring Entity to maintain the Monitoring Entity's profile and create and maintain user accounts for yourself and collaborating agencies.
- Submit a Notification that your organization intends to assume the role of Monitoring Entity for a California groundwater basin, sub-basin, or portion of a sub-basin, including:
 - Organization details and contact information
 - The monitoring entity authority that best describes you (Water Code Section 10927)
 - GIS shapefiles that define the boundary of the area you intend to monitor
 - A groundwater management plan and/or monitoring plan
 - CASGEM well construction details and location information
- Submit groundwater elevation data (including batch uploads)
- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data in tabular format
- View hydrographs for single wells and compare hydrographs for multiple wells
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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This section of the User Guide discusses the following topics:

2.7.1 [Organization Profile](#)

2.7.2 [Manage Users](#)

2.7.2.1 [Current Associated Users](#)

- [Delete an Associated User](#)
- [Edit User Role for an Associated Role](#)

2.7.2.2 [Invite User](#)

2.7.2.3 [Invited Users](#)

2.7.1 Organization Profile

The Organization Profile link, under the Administration tab, allows ME Administrators² to view and edit details about their agency, such as address and contact information. The information is presented as an editable form.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Organization Profile | Organization Profile | Manage Users

Organization Details
*Indicates Required

Name of Organization *	<input type="text" value="Test Organization"/>	Abbreviation *	<input type="text" value="Test Org"/>
Address Type *	<input type="text" value="Office"/>	Address Line 2	<input type="text" value="Enter Address Line 2"/>
Address Line 1 *	<input type="text" value="789 Rio Grande Blvd."/>	State *	<input type="text" value="California"/>
	<input type="text"/>	Country *	<input type="text" value="United States of America"/>
	<input type="text"/>	Phone Number *	<input type="text" value="510-987-6543-____"/>
Email *	<input type="text" value="Home Email"/>	Email Address *	<input type="text" value="ttgtestuser@gmail.com"/>

After making the desired changes, click "Update" to save.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

² This is a ME Administrator function only. All other ME users can only view organization information. DWR users will not see this tab.

2.7.2 Manage Users

The Manage Users link, under the Administration tab, allows users³ to view and edit other users within their organization and invite other users to be associated with their organization. Specific capabilities are described below.

The screenshot shows the CASGEM Online System interface. At the top left is the CASGEM logo. To its right, the text "CASGEM Online System" is displayed. A welcome message reads "Welcome: Jane Smith for Test Organization as Administrator". Below this is a navigation menu with tabs: Home, Notifications, Manage Wells, View Map, Reports, Administration (selected), My Profile, Public View, and Sign Out. The main content area is titled "Manage Users" and contains two sections: "Current Associated Users" and "Invite User".

Current Associated Users

Dissociate	User Name	User Email	Role Type	Edit
No records to display.				

Invite User

First Name * Last Name *

Email * Role Type *

Invited Users

First Name	Last Name	Email	Registration Complete
No records to display.			

At the bottom of the page, there are links for [Back to Top](#), [Help](#), and [Comments or Suggestions](#).

³ This function is only available to ME Administrator and DWR Approver roles.

2.7.2.1 Current Associated Users

Under “Current Associated Users”, Administrators can see all users that are currently associated with their organization.

Delete an Associated User

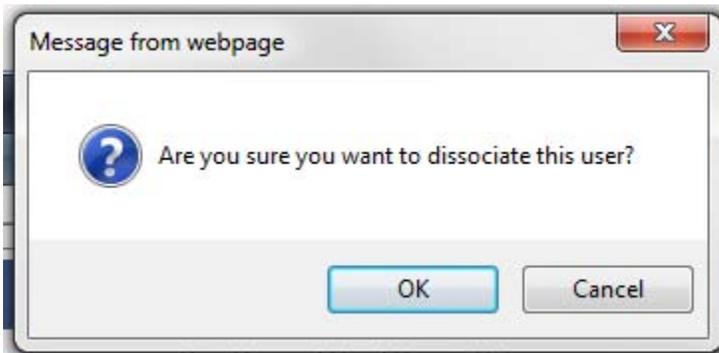
To delete users from your organization, click on “Dissociate” next to that user.

The screenshot shows the CASGEM Online System interface. At the top, there is a navigation menu with links: Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. Below the menu is a 'Manage Users' section. Under 'Current Associated Users', there is a table with the following data:

Dissociate	User Name	User Email	Role Type	Edit
Dissociate	Mohan Kumar	mnrasmushan@trinitytg.com	None	Edit

A purple callout box with the text 'Click here' points to the 'Dissociate' link. Below the table, there is a form to add a new user with fields for First Name, Last Name, Email, and Role Type (set to Administrator), and a 'Send Invite' button. Below the form is an 'Invited Users' section with a table that currently has no records.

A message will pop up asking “Are you sure you want to dissociate this user?”



To dissociate, click “Ok”. To go back, click “Cancel”

Edit User Role for an Associated Role

To change the role type of a currently associated user, select “Edit” next to that users’ name. An Edit User window will pop up.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Users

Current Associated Users

Dissociate	User Name	User Email	Role Type	Edit
Dissociate	Mohan Kumar	mnrasmhan@trinitytg.com	None	Edit
Dissociate	John Doe	jdoh@yahoo.com	Contributor	Edit

Invite User

First Name * Last Name *

Email * Role Type *

Send Invite

Invited Users

First Name	Last Name	Email	Registration Complete
Bobby	Brown	bobby@gmail.com	False
George	Washington	george@aol.com	False
Monica	Luis	mluis@yahoo.com	False
Bradley	Johnson	bjohnson@ttgtest.com	False

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Change the role type of the user by selecting the new role type within the drop-down menu. Click “Apply Changes” to save or “Discard Changes” to cancel.

Edit User

User Name: **John Doe**

Email: **jdoh@yahoo.com**

Role Type:

Apply Changes **Discard Changes**

2.7.2.1 Invite User

To invite a user to associate themselves with your organization, first fill out the user information as shown below. Don't forget to choose a Role Type for the user by selecting one from the drop-down menu. To submit, click on "Send Invite".

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Users

Current Associated Users

Dissociate	User Name	Role Type	Edit
Dissociate	Mohan Kumar	None	Edit

Invite User

First Name * * Required

Last Name * * Required

Email * * Required

Role Type *

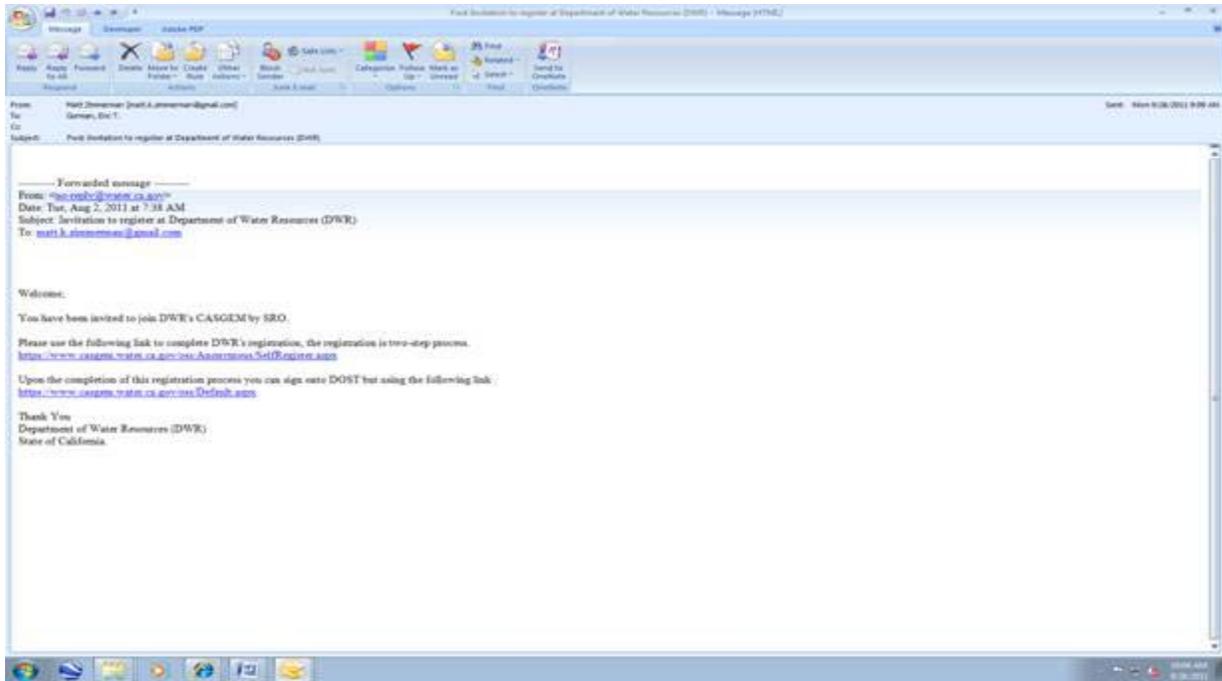
Send Invite

Invited Users

First Name	Last Name	Email	Registration
No records to display.			

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

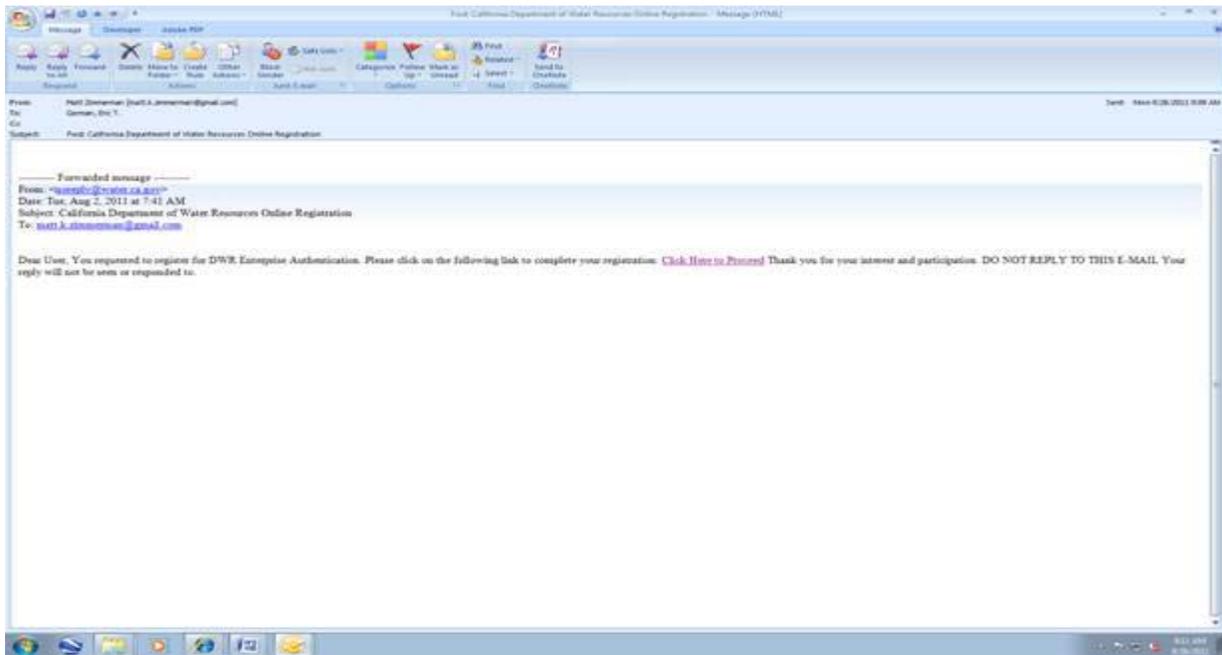
The user you just added will be added to the Invited Users list once email confirmations are processed, as describe for the following screen shots.



Screen shot 1 – welcome invited user + complete registration link



Screen shot 2 – complete self registration and select “register”



Screen shot 3 – screen displayed when invited user clicks on the “click here to proceed” link provided in the automated email. This must be completed before user will be associated with the notification.

Screen shot 4 – complete user profile and confirm registration – click “save and proceed”



Screen shot 5 – user shows up in both Invited user and current associate user columns

2.7.2.3 Invited Users

Already invited users can be viewed within the Invited Users table.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Users

System Information: Invitation has been successfully sent to the user.

Current Associated Users

Dissociate	User Name	User Email	Role Type	Edit
Dissociate	Mohan Kumar	mnrarasimhan@trinitytg.com		Edit
Dissociate	John Doe	jdoe@yahoo.com		Edit

Invite User

First Name * Last Name

Email * Role Type

[Send Invite](#)

Invited Users

First Name	Last Name	Email	Registration Complete
Bobby	Brown	bobby@gmail.com	False
George	Washington	george@aol.com	False
Monica	Luis	mluis@yahoo.com	False
Bradley	Johnson	bjohnson@ttgtest.com	False

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Invited users who have completed registration will have a "True" value here. These users will also be shown in the Current Associated Users list. Users who have not completed registration will have a "False" value.

2.8 My Profile

The My Profile tab allows Monitoring Entity⁴ users to view and edit user profiles, change passwords, switch organizations and associate themselves to organizations. Details about each of these functionalities can be found in the sections listed below.

- 2.8.1 [User Profile](#)
- 2.8.2 [Change Password](#)
- 2.8.3 [Switch Organization](#)
- 2.8.4 [Associate Organization](#)

Welcome: UAT User 1 for UAT Organization 1 as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | **My Profile** | Public View | Sign Out

Home

User Profile
Change Password
Switch Organization
Associate Organization

Welcome to the California Statewide Groundwater Elevation Monitoring (CASGEM) Online System

The CASGEM Online System now allows you to:

- Register as an "Administrator" for a Monitoring Entity to maintain the Monitoring Entity's profile and create and maintain user accounts for yourself and collaborating agencies.
- Submit a Notification that your organization intends to assume the role of Monitoring Entity for a California groundwater basin, sub-basin, or portion of a sub-basin, including:
 - Organization details and contact information
 - The monitoring entity authority that best describes you (Water Code Section 10927)
 - GIS shapefiles that define the boundary of the area you intend to monitor
 - A groundwater management plan and/or monitoring plan
 - CASGEM well construction details and location information
- Submit groundwater elevation data (including batch uploads)
- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data in tabular format
- View hydrographs for single wells and compare hydrographs for multiple wells
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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⁴ DWR users do not have the My Profile tab.

2.8.1 User Profile

The User Profile link under the My Profile tab allows users to enter or edit their personal details and user information, such as address and contact information. To edit, click on any field and edit the information within it.

- To edit Challenge Information (Security Question and Answer); select the Challenge Information link to expand.
- To add a new phone number, simply click on the plus icon next to “Add New Phone”. The system will display a Phone Details window with empty fields where you can add a phone number. Click “Apply Changes” to save.
- To edit a phone number, click on Edit within the Add New Phone table. Edit the Phone Details in the pop-up window and click on “Apply Changes” to save.
- To delete a phone number, click on the “Delete” option within the Phone Details table.
- To add a new address, simply click on the plus icon next to “Add New Address”. The system will display an Address Details window with empty fields where you can add address information. Click “Apply Changes” to save.
- To edit an address, click on Edit within the Add New Address table. Edit the Address Details in the pop-up window and click on “Apply Changes” to save.
- To delete an address, click on the “Delete” option within the Address Details table.

Upon making any changes within the Edit User Profile page, you must click “Save” to save all of this information to the CASGEM system.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Edit User Profile

User Information

Username (Email) * Title

First Name * Last Name *

Challenge Information

Phone Details *at least one phone is required

+ Add New Phone			
Edit	Delete	Type	Phone Number
Edit	Delete	Office Phone	(415) 123-4567

Address Details *at least one address is required

+ Add New Address			
Edit	Delete	Type	Address
Edit	Delete	Office	456 Sunrise Ave., Chico, California - 95784

[Save](#) [Discard Changes](#) [Back To Home](#)

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

2.8.2 Change Password

The Change Password link under the My Profile tab allows users to change their password. In order to change your password, enter your old password and then enter your new password twice. After making your changes, click “Change” to update the user’s password.



CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home Notifications Manage Wells View Map Reports Administration My Profile Public View Sign Out

Change Password

Username(Email)

Old Password *

New Password *

Verify Password *

[Password Guidelines](#) Click here to view password guidelines

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

2.8.3 Switch Organization

The CASGEM application allows a user to be associated with multiple organizations. Each of the organizations a user is associated to can be accessed within the same login session. In order to switch organizations, a user has to choose the “Switch Organization” option under the My Profile tab.

To switch, select the organization you wish to switch to from the drop-down menu. When you have chosen an organization, click “Select”. You will then be taken to the Homepage of your profile with an association to the chosen organization.

The screenshot shows the CASGEM Online System interface. At the top left is the CASGEM Online System logo. To the right, a welcome message reads: "Welcome: Jane Smith for Test Organization as Administrator". Below this is a navigation bar with buttons for Home, Notifications, Manage Wells, View Map, Reports, Administration, My Profile, Public View, and Sign Out. The main content area is titled "Select Your Organization". A callout box on the left contains the text: "Only organizations you are associated to are shown in the drop-down menu." The callout points to a dropdown menu with the following options: Test Organization, Orangevale Water District, Newest Org, and Edina Org. To the right of the dropdown menu is a "Select" button. At the bottom of the page, there are links for "Back to Top", "Help", and "Comments or Suggestions".

2.8.4 Associate Organization

The Associate Organization subsection of the My Profile tab allows users to associate themselves to a new organization. Users should first search for the organization they wish to associate to by looking for the organization within the Associate Organization table. To associate, the user simply clicks on “Associate”. The system then refreshes the page and takes the user to the Homepage. Users can find their newly associated organization within the drop-down menu on the Switch Organization page (see above section).



Welcome: Jane Smith for Test Organization as Administrator

Home	Notifications	Manage Wells	View Map	Reports	Administration	My Profile	Public View	Sign Out
------	---------------	--------------	----------	---------	----------------	------------	-------------	----------

Associate Organization

Create And Associate Organization

Register New Organization

Associate Organization

Organization Name	Address	Phone Number	Email	Associate
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hemal's Org2	TTG, Sacramento - 91691	(916) 916-9166	hmehta@trinitytg.com	Associate
Dell	3029 Monroe St., Huntington Beach - 94728	(425) 832-7932	dellco@dellmail.com	Associate
Hemal's Org	Addr1 addr2, Sacramento - 99999	(916) 916-9166	hmehta@trinitytg.com	Associate
Mendocino County Water Agency				Associate
New Org	2342 Monroe , Santa Clara - 95050	(123) 456-7890	example@domain.com	Associate
Voss	8462 Cabrillo Ave, Santa Clara - 95050	(408) 123-4567	example@domain.com	Associate
Alameda County Water District	43885 South Grimmer Blvd, Fremont - 94538		www.acwd.org	Associate
Alpine County	50 Diamond Valley Road, Markleeville - 96120	(530) 694-2140	bpeters@alpinecountyca.gov	Associate
Antelope Valley State Water Contractors Association	2029 East Avenue Q, Palmdale - 93550	(661) 947-4111	cpaxton@palmdalewater.org	Associate

Click here to associate to an organization.

Register New Organization

If the organization you wish to associate to does not exist within the system, you can easily add a new organization by clicking on the “Register New Organization” option. In the Organization Details section, enter the required information and click on “Register Organization” to submit.

CASGEM Online System

Welcome: Jane Smith for Test Organization as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Register Organization

Organization Details
*Indicates Required

Name of Organization *	<input type="text" value="Enter Organization Name"/>	Abbreviation *	<input type="text" value="Enter Abbreviation"/>
Address Type *	<input type="text" value="Office"/>	Address Line 2	<input type="text" value="Enter Address Line 2"/>
Address Line 1 *	<input type="text" value="Enter Address Line 1"/>	State *	<input type="text" value="California"/>
	<input type="text" value="Province"/>	Country *	<input type="text" value="United States of America"/>
	<input type="text" value=""/>	Phone Number *	<input type="text" value="--- -- --"/>
	<input type="text" value=""/>	Email Address *	<input type="text" value="Enter Email"/>

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

After submitting, the CASGEM system will open the page below, confirming the addition of the organization.

CASGEM Online System

Welcome: Jane Smith for New as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | Public View | Sign Out

Manage Organization Confirmation

The organization has been saved successfully. [Click Here](#) to go back to the Application Home page or navigate through the top menu.

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2.9 Public View

To see the public’s view of the CASGEM OS while being logged in as a ME, click the “Public View” tab from the Home page as indicated below.

Welcome: UAT User 1 for UAT Organization 1 as Administrator

Home | Notifications | Manage Wells | View Map | Reports | Administration | My Profile | **Public View** | Sign Out

Home

Welcome to the California Statewide Groundwater Monitoring (CASGEM) Online System

The CASGEM Online System now allows you to:

- Register as an “Administrator” for a Monitoring Entity to maintain the Monitoring Entity’s profile and create and maintain user accounts for yourself and collaborating users
- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data in tabular format
- View hydrographs for single wells and compare hydrographs for multiple wells
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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The Public View tab was designed to give you and DWR users the option to easily view the CASGEM application as the general public does. When a you or DWR selects a category from the Public View tab, they will be taken to the public view of that page; this means that they will only have access to the functionalities that the general public has access to. The table below describes the limitations imposed on general public users.

Category	Limitations
Notifications	Public users will only see notifications that hold a “Designated” status in the database.
Well Information	Public users can only view information for wells that are marked as “CASGEM” wells in the database.
Elevation Data	Public users can only view information for wells that are marked as “CASGEM” wells

	in the database.
Reports	Reports containing notification, wells or elevation data will honor the restrictions associated with these views for public information. For example, a report on wells information will only contain “CASGEM” wells.
View Map	CASGEM map viewer and its associated geo database will honor the restrictions associated with public information. For example, a public user will only be able to view the notifications on the map that hold a “Designated” status in the database.

Without logging out, you can select the Public View tab within your profile. The following section topics briefly explain the functionality of each of the Public View categories.

- 2.9.1 [Notifications](#)
- 2.9.2 [Well Information](#)
- 2.9.3 [Groundwater Elevation Data](#)
- 2.9.4 [Reports](#)
- 2.9.5 [View Map](#)

For more detail on specific Public View page content, [click here](#) to go to the General Public section of the User Guide.

2.9.1 Notifications

Within Public View, only notifications that are in “Designated” status can be viewed. To view details for any notification displayed, you simply have to click on the notification.

The basins summary page will NOT show details about:

1. Comments
2. Status Transitions
3. Recommendation Status

To view a detailed explanation of the Notifications page, as seen by the public, [click here](#).

2.9.2 Well Information

The Public View Well Information page requires the public to search for wells because the public is not associated to any Monitoring Entities. The only exception lies in that the following data for Voluntary Wells (those wells that are not CASGEM Wells) will not be displayed:

- Total Well Depth
- Well Screening Intervals

To view a detailed explanation of the Well Information page, as seen by the public, [click here](#).

2.9.3 Groundwater Elevation Data

Within the Public View tab, the Measurement Details page is shown in read-only mode. The links to edit reading, add new readings and view audit trail are not visible.

To view a detailed explanation of the Groundwater Elevation page, as seen by the public, [click here](#).

2.9.4 Reports

Public users are also able to generate and view CASGEM System Reports based on different criteria. Reports from the public perspective can be found within the Public View tab.

Public users have the ability to view all the same reports as you with certain restrictions. The restrictions for each report type are explained below:

- Report on # of Wells:
 - No restrictions
- Report on Basins:
 - Can search for and view reports only on CASGEM basins that have a “Designated” status
- Report on Plans:
 - No restrictions
- Report of Wells:
 - Can search for and view reports of wells, but cannot view the total well depth and well screening information for Voluntary Wells.
- Report of Monitoring Entities:
 - Returns only Designated Monitoring Entities in results.
- Groundwater Elevation Reports:
 - Can search for and view reports of groundwater elevation measurements in all wells, but cannot view the total well depth and well screening information for Voluntary Wells.

To view a detailed explanation of the Reports page, as seen by the public, [click here](#).

2.9.5 View Map

The View Map option under the Public View tab takes you to the GIS application. The functionality of the GIS application under the Public View is almost identical to its functionality within ME and DWR users’ profiles. Listed below are the functions that are not available under the Public View:

1. Viewing Public Water Supply Wells (Restricted Wells)
2. Viewing Total Well Depth for Voluntary Wells
3. Viewing Screen intervals for Voluntary Wells

To view a detailed explanation of the GIS application, as seen by the public, [click here](#).



3.0 The CASGEM System for the General Public

Section Topics

- 3.9 [Public User Registration and Log In](#)
 - 3.1.1 [Self-Registering](#)
 - 3.1.2 [How to Log On](#)
- 3.2 [Public User Homepage](#)
- 3.3 [Notifications](#)
- 3.4 [Well Information](#)
- 3.5 [Groundwater Elevation Data](#)
- 3.6 [Reports](#)
 - 3.6.1 [Program Level Reports](#)
 - 3.6.2 [Water Data Reports](#)
 - 3.6.3 [Elevation Data Reports](#)
- 3.7 [View Map](#)
- 3.8 [My Profile](#)
 - 3.8.1 [User Profile](#)
 - 3.8.2 [Change Password](#)

3.1 Public User Registration and Log In

If you are already a registered user, you can log in using the email and password combination you previously provided to the CASGEM system and may go straight to the [log-in instructions](#). New users must first register with the CASGEM system.

3.1.1 Self-Registering

To register, click on the “Self Register” link on the log-in page.

CA.GOV | DEPARTMENT OF WATER RESOURCES
CASGEM Online System

Log In

Username (Email)*

Password*

[Click here to go to the Self Registration page.](#)

[Forgot password?](#)

[Self Register](#)

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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From the user registration page, fill in your name, email address and the CAPTCHA text. To submit, click “Register”.

Self Registration

User Registration

First Name *

Last Name *

Username (Email) *



[Generate New Image](#)

Type the code from the image

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

[Conditions of Use](#) | [Privacy Policy](#)

Upon successfully submitting your registration, you will be shown the following confirmation page.

Self Registration

Thank you for registering. You will receive an email shortly containing a link to access the second registration page. Please follow the link in order to complete the registration process.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

The CASGEM system will send an authentication message to your email account, similar to that shown below. Click on the link (Click Here to Proceed) in the message and you will be taken to the CASGEM “Create User Profile” page.

California Department of Water Resources Online Registration Inbox | X

☆ noreply@water.ca.gov to me show details 5:11 PM (16 hours ago) Reply

Dear User,

You requested to register for DWR Enterprise Authentication.

Please click on the following link to complete your registration:

[Click Here to Proceed](#)

Thank you for your interest and participation.

DO NOT REPLY TO THIS E-MAIL
Your reply will not be seen or responded to.

← Reply → Forward

Click here to go to the "Create User Profile" page.

Enter the personal information associated with your account. Your email address is your user name. All fields bearing a red asterisk are required and you must enter at least one phone number and one mailing address. Review the password guidelines, type in a new password, and retype the password for verification. Also select and answer a secret question to recover you password in case it becomes forgotten. After you have completed the form, click on the "Save & Proceed" button. You may also clear the fields by clicking the "Discard Changes" button.

Create User Profile

User Information

Username (Email) * Title
First Name * Last Name *

Phone Details *at least one phone is required

+ Add New Phone			
Edit	Delete	Type	Phone Number
No records to display.			

Click "+" sign to add a new phone number.

Address Details *at least one address is required

+ Add New Address			
Edit	Delete	Type	Address
No records to display.			

Click "+" sign to add a new address.

Password * Verify Password *
[Password Guidelines](#)

Challenge Information

Secret Question * Secret Answer *

Click "Save & Proceed" to complete your user profile.

After saving your user profile, you will be directed to the login page.

3.1.2 How to Log In

The log-in page allows both new and returning users to sign into the OS system. If you have previously created a User Profile, you should enter your email address and password in the identified fields and click the “Login” box to enter the system. If you have not created a user profile, return to the [self-registration instructions](#) of the User Guide. If you forgot your password, you can click on “Forgot password?” and answer the secret question to have your password emailed to you.

The screenshot shows the login interface for the CASGEM Online System. At the top, the logo for the Department of Water Resources (CA.GOV) and the CASGEM Online System is displayed. Below the logo, there is a 'Log In' section with two input fields: 'Username (Email) *' and 'Password *'. A red box highlights the 'Login' button. Below the button are two links: 'Forgot password?' and 'Self Register'. At the bottom of the page, there are links for 'Back to Top', 'Help', and 'Comments or Suggestions', along with 'Conditions of Use' and 'Privacy Policy'. The footer includes 'Copyright © 2010 State of California' and the date '11/17/2011'. Two callout boxes provide additional instructions: one on the left points to the 'Self Register' link, and one on the right points to the 'Forgot password?' link.

If you're a first time user, click here to register and create a user profile.

If you have forgotten your password, click here to have a temporary password e-mailed to you.

The first time you log into the CASGEM OS with your new user profile, you must identify that you are a Public user, as shown in the following screen shot. **NOTE: Selecting a User Type is an irreversible process.**

[Sign Out](#)

Select User Type

Please select your user type: Public user Monitoring Entity user **Important : This is an irreversible process**

[Continue](#)

You must select the "Public user" option and then click the "Continue" button.

3.2 Public User Homepage

The public user Homepage, seen below, is the first screen that you will see upon successfully logging into the CASGEM system. To return to the homepage at any point, you can simply click on the “Home” tab.

CASGEM
Online System

Welcome: UAT Public User 1

Home Notifications Well Information View Map Reports My Profile Sign Out

Public: Home

Welcome to the California Statewide Groundwater Elevation Monitoring (CASGEM) System - Public Portal

CASGEM provides public access to statewide groundwater elevation and monitoring well data. The online system allows you to:

- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data
- View a hydrograph that shows groundwater elevations for a well
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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Aside from the Home tab, you also have access to the following tabs:

- “Notifications”: for viewing existing notifications submitted by Monitoring Entities.
- “Well Information”: to view existing wells submitted by Monitoring Entities and DWR officials.
- “Groundwater Elevation Data”: to view existing elevation data within the CASGEM system.
- “View Map”: to access the GIS functionality of the system.
- “Reports”: to generate reports of the data within the CASGEM system.
- “My Profile”: to manage their personal profile information.
- “Sign Out”: to log out of the CASGEM OS.

Each of these is described in detail in the sections that follow.

3.3 Notifications

To view Notifications within the CASGEM System, public users have to select Notifications from the Public View tab.

CASGEM Online System

Welcome: UAT Public User 1

Home Notifications Well Information View Map Reports My Profile Sign Out

Public: Home

Welcome to the California Statewide Groundwater Elevation Monitoring (CASGEM) Online System - Public Portal

CASGEM provides public access to groundwater data and monitoring well data. The online system allows you to:

- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data
- View a hydrograph that shows groundwater elevations for a well
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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The system will open a page showing a table of Notifications. The user can chose to view details for any notification displayed by clicking on the hyperlinked basin name.



Welcome: UAT Public User 1

- [Home](#)
- [Notifications](#)
- [Well Information](#)
- [View Map](#)
- [Reports](#)
- [My Profile](#)
- [Sign Out](#)

Public: Notifications

Please select a basin from the grid below to view details.

Notifications

Basin	Portion Name	Monitoring Entity	Agency	Reviewer	Submit Date	RO
Tule		UAT Organization 4		cmckenzi	10/28/2011	SCRO
Madera		UAT Organization 3		bususert13@ad.water.ca.gov	10/26/2011	SCRO
San Benito River Valley		UAT Organization 4		bususert13@ad.water.ca.gov	10/21/2011	SCRO
Warm Springs Valley				egorman	10/21/2011	NRO
Yolo				bususert13@ad.water.ca.gov	8/15/2011	NCRO
Brite Valley	123 portio		Redeploy 10/12	aahuja	10/12/2011	SCRO
Means Valley		Test Organization	Agency 1234	aahuja	10/7/2011	SRO
Covelo Round Valley		Test Organization		aahuja	10/12/2011	NRO
Ward Valley		CK Trinity Organization		aahuja	10/12/2011	SRO
Prairie Creek Area		Test Organization	East Contra Costa Irrigation District	aahuja	10/6/2011	NRO
Butte Valley		Test Organization	Town of Discovery Bay	aahuja	10/6/2011	NRO
Soquel Valley		SCROtest		cmckenzi	6/16/2011	SCRO

Click a basin name to view details.

Upon clicking on a basin, the Basin Summary page will pop up, showing details about that specific basin.



Welcome: UAT Public User 1

[Home](#) [Notifications](#) [Well Information](#) [View Map](#) [Reports](#) [My Profile](#) [Sign Out](#)

Public: Basin Summary

Monitoring Entity Details

Monitoring Entity Name UAT Organization 3
Monitoring Entity Address 901 P Street, Sacramento, CA
Contact Person UAT User 3, (111) 111-1111
Authority Type Groundwater Management Agency

Basin Information

Region of Basin 6-San Joaquin River
Basin Number and Name 5-22.06-Madera
Basin Portion Name
Cooperating Agency

Basin Shape Files

Shape File	Download
010 337 5024 10262011115359.shp	Download
010 337 5024 10262011115359.dbf	Download
010 337 5024 10262011115359.prj	Download
010 337 5024 10262011115359.shx	Download

3.4 Well Information and Groundwater Elevation Data

The Well Information screen can be reached by selecting “Well Information” from the Public View tab pull-down menu.

CASGEM Online System

Welcome: UAT Public User 1

Home | Notifications | **Well Information** | View Map | Reports | My Profile | Sign Out

Public: Home

Welcome to the California Statewide Groundwater Monitoring (CASGEM) Online System

CASGEM provides public access to statewide groundwater elevation and monitoring well data. The online system allows you to:

- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data
- View a hydrograph that shows groundwater elevations for a well
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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The Well Information page requires you to search for wells. Because the public is not associated to any Monitoring Entities, you must search from a data set of all wells within the CASGEM system by using the various search attributes available. You can also search for specific wells by one of their three potential well identification numbers if know.



Welcome: UAT Public User 1

- Home
- Notifications
- Well Information
- View Map
- Reports
- My Profile
- Sign Out

Public: Well Information

Search by Name or Number

Local Well Designation	<input type="text" value="Enter Local Well Designation"/>
CASGEM Well Number	<input type="text" value="Enter CASGEM Well Number"/>
State Well Number	<input type="text" value="Enter State Well Number"/>

Search by Attributes

Hydrological Region	<input type="text" value="Please select a basin region"/>	Well Use	<input type="text" value="Please select a well use type"/>
Basin Name and Number	<input type="text" value="Please select a basin"/>	Well Status	<input type="text" value="Please select well status"/>
Regional Office	<input type="text" value="Please select a regional office"/>	Completion Type	<input type="text" value="Please select a completion type"/>
County	<input type="text" value="Please select a county"/>		
Monitoring Entity	<input type="text" value="Please select a monitoring entit"/>		

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Public: Well Information

Search by Name or Number

Local Well Designation

CASGEM Well Number

State Well Number

Search by Attributes

Hydrological Region Well Use

Basin Name and Number Well Status

Regional Office Completion Type

County

Monitoring Entity

Search

Basic Search Options

Click on "View" to view the data attributes for any of the wells, or on "View on Map" to see the well's geographical location.

Local Well Designation	Basin Name and Number	Regional Office	County	Monitoring Entity	Well Use	Depth	View On Map	Well Details
34 Voluntary	Butte Valley				Industrial	Confidential	View On Map	View
Bob's Well No 3	Colusa	Just a little bit of it around my house	15S15E22R002M	345000N1155000W002	Stockwatering	155	View On Map	View
13 Voluntary NTD	Prairie Creek Area			362811N1191723W001	Irrigation	Confidential	View On Map	View
6 CASGEM TD	Mattole River Valley			367510N1221723W001	Irrigation	12	View On Map	View
Erase2	Prairie Creek Area			373421N1212341W001	Observation	Confidential	View On Map	View
26 Voluntary	Butte Valley			374234N1223249W001	Observation	Confidential	View On Map	View
01S08E04R001M	Eel River Valley	Coop Agency 1 Side	01S08E04R001M	378737N1210917W001	Irrigation	Confidential	View On Map	View
8 Voluntary TD	Butte Valley			380098N1221723W001	Irrigation	Confidential	View On Map	View

Upon clicking on the “View” link, a new window will open and the Well Details attributes will be displayed by default for the well selected. You can also expand or minimize the well’s data element displays by clicking on “View Hydrograph” or “View Elevation Data” to see these data elements associated with the well. The following screen shots are examples of the different displays.



Welcome: UAT Public User 1

Public: Well Details

[View Well Data](#)

<p>Identification</p> <p>Local Well Designation: Goose Test</p> <p>Is Local Designation the same as State Well #?: No</p> <p>State Well Number: 04N01E05F001M</p> <p>Master Site Code: 382239N1218929W001</p> <p>Data submittals for this well are under: CASGEM</p>	<p>Coordinates</p> <p>Latitude: 38.2239 North</p> <p>Longitude: 121.8929 West</p> <p style="text-align: center;">View on Map</p> <p>Method: Unknown</p> <p>Accuracy: Unknown</p>
<p>Reference and Ground Surface</p> <p>RP Elevation: 12.30 ft.</p> <p>Description: None Provided</p> <p>GS Elevation: 12 ft.</p> <p>Method: Unknown</p> <p>Accuracy: Unknown</p> <p>Distance from RP: 0.30</p>	<p>Well Construction</p> <p>Completion Type: Single Well</p> <p>Total Depth: Unknown</p> <p>Do you have well construction data?: No</p> <p>Well completion report available?: No</p>
<p>Well Usage</p> <p>Well Use: Stockwatering</p> <p>Well Status: Active</p>	<p>Associated Basin & County</p> <p>Basin/Portion: 5-1.02 - Goose Lake Valley, Fandango test</p> <p>County: Solano</p>

Additional Information

Written description of location of well: Any additional comments

[View Hydrograph](#)

[View Elevation Data](#)

[Close](#)

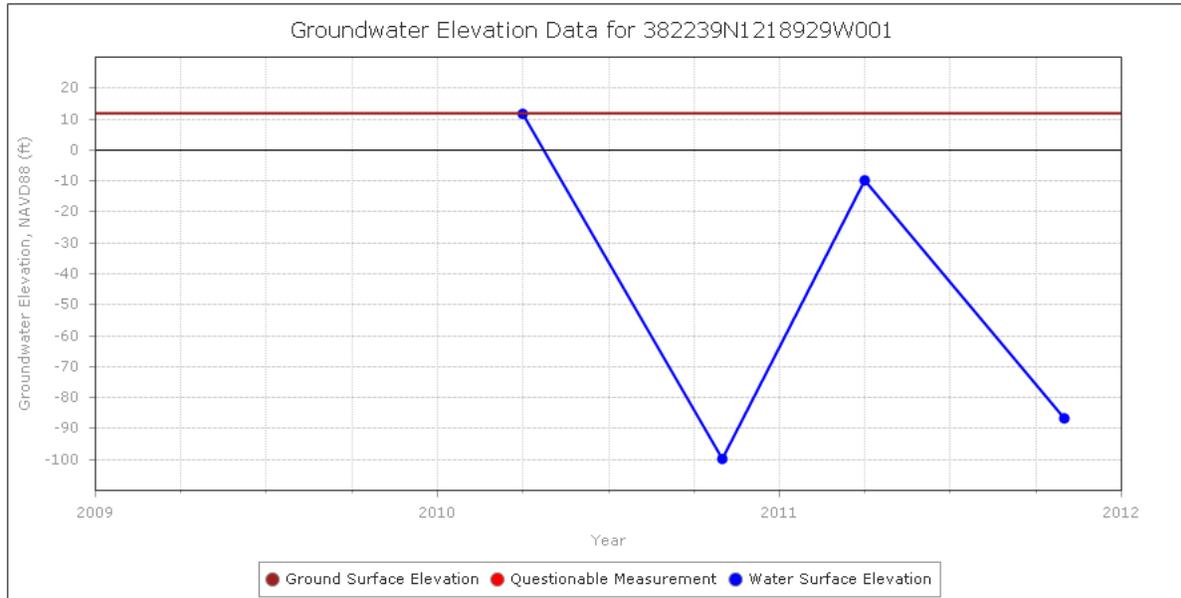
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Public: Well Details

[View Well Data](#)

[View Hydrograph](#)



[View Elevation Data](#)

Close

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Public: Well Details

[View Well Data](#)

[View Hydrograph](#)

[View Elevation Data](#)

Date	Military Time (PST)	NM	QM	Reading @RP	Reading @WS	RP to WS	RP Elev	GS Elev	WSE	GS to WS	Measurement Method	Measurement Accuracy	Co-op
10/20/2011	00:00			100.000	1.100	98.900	12.300	12.000	-86.600	98.600	ST	0.1 Ft	Senter Compa
03/20/2011	00:00			22.100	0.100	22.000	12.300	12.000	-9.700	21.700	ST	0.1 Ft	Senter Compa
10/15/2010	00:00			112.000	0.000	112.000	12.300	12.000	-99.700	111.700	ST	0.1 Ft	Senter Compa
03/10/2010	00:00			1.000	0.500	0.500	12.300	12.000	11.800	0.200	ST	0.1 Ft	Senter Compa

Close

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

Upon clicking on the “View on Map” link on the Well Information page, another window will open displaying the well’s location on an aerial photo as shown in the following screen shot.

The screenshot displays the CASGEM Online System interface. At the top, the logo reads "CASGEM Online System". A navigation menu on the left includes "Home", "Public:", "Search", "Local We", "CASGEM", "State We", "Search", "Hydrolog", "Basin Na", "Regional", "County", and "Monitorin". A search bar is visible below the menu. The main content area features a window titled "View Well On Map" which contains an aerial photograph. A green dot on the map indicates the location of a well. Below the map is an "Ok" button. To the right of the map, there are "Well Details" and "View" links. At the bottom of the screen, a table lists well information:

10N02E04R001M	Colusa	10N02E04R001M	387351N1217495W001	Irrigation	Confidential	View On Map	View
10N02E05M002M	Colusa	10N02E05M002M	387423N1217802W001	Irrigation	Confidential	View On Map	View
10N02E06B001M	Colusa	10N02E06B001M	387493N1217939W001	Irrigation	Confidential	View On Map	View

3.5 Reports

The Reports function can be accessed by clicking on “Reports” link from the Public View tab pull-down menu as shown below. The Reports function allows you to generate reports of the data within the CASGEM system, based on different sets of search criteria.



The screenshot displays the CASGEM Online System interface. At the top left is the CASGEM logo. To the right, it says "Welcome: UAT Public User 1". Below this is a navigation bar with tabs: Home, Notifications, Well Information, View Map, Reports (highlighted in orange), My Profile, and Sign Out. Under the Reports tab, a list of report options is shown: Report on Number of Wells, Report on Monitored/Unmonitored Basins, Report on Groundwater Management and Monitoring Plans, Report of Wells, Report of Monitoring Entities, and Report of Groundwater Elevation Data. A purple callout box with a white border points to the Reports tab and contains the text: "Select the 'Reports' tab to view the list of available reports." At the bottom of the page, there is a footer with links for "Back to Top", "Help", and "Comments or Suggestions", along with "Conditions of Use" and "Privacy Policy". Copyright information for 2010 State of California and the date 10/31/2011 are also present.

Reports can be viewed within the CASGEM web application, as well as exported to Excel and saved to your local file system, or printed.

Keep in mind that the Reports function has certain limitations; these are described in the sections that follow.

3.5.1 Program Level Reports

Report on Basins

This report provides a list of basins depending on different search criteria. You can search by any of the below listed criteria, but only CASGEM basins that have a “designated” status will be displayed in the results. The search is based on the following criteria:

- a. By Groundwater Basin/Sub-basin Name
- b. By Groundwater Basin/Sub-basin Number
- c. By Monitoring Entity
- d. By Authority type
- e. By Date (mm/yyyy) include in the title (as of date)
- f. By Date Range (To view the Status Changes)

Based on the selection criteria mentioned above, the following search results will be generated:

- Areas being Monitored; containing the following information:
 - a. Total Number of Monitoring Entities
 - b. Total Number of Groundwater Basins/Sub-basins being Monitored (as Oct. 2011.)
 - c. Total Number of CASGEM Wells

- d. Total Number of Voluntary Wells
 - e. Total Number of Wells
 - f. Groundwater Basin/Sub-basin Name
 - g. Groundwater Basin/Sub-basin Number
 - h. County
 - i. Monitoring Entity
 - j. Authority Type
 - k. Number of CASGEM Wells
- Areas not being Monitored; containing the following information:
- a. Total Number of Groundwater Basins/Sub-basins not being Monitored
 - b. Total Number of Counties not being monitored
 - c. Groundwater Basin/Sub-basin Name
 - d. Groundwater Basin/Sub-basin Number
 - e. County

The " By Authority Type" and the "Groundwater Management Agency" Authority Type have been selected to run a Report on Basins.

Hit "Run Report".

The resulting report is displayed below.

Groundwater Basin/Subbasin Name	Groundwater Basin/Subbasin Number	Basin Portion	Monitoring Entity	Authority Type	No. of CASGEM Wells
Covelo Round Valley	1-11		Test Organization	Groundwater Management Agency	0
Soquel Valley	3-1		SCROtest	Groundwater Management Agency	0
Santa Maria River Valley	3-12		SCROtest	Groundwater Management Agency	0
Santa Monica	4-11.01		Mac's H2O	Groundwater Management Agency	1
Warm Springs Valley	5-2.02		UAT Organization 1	Groundwater Management Agency	0
Madera	5-22.06		UAT Organization 3	Groundwater Management Agency	0

Report Generated on 11/17/2011 12:09:11 PM Page 1

Report on Plans

This report provides a list of plans depending on different search criteria. The user can search for Groundwater Management Plans or Monitoring Plans.

The search is based on the following criteria:

- d. By Groundwater Basin/Sub-basin Name
- e. By Groundwater Basin/Sub-basin Number
- f. By Monitoring Entity
- g. By Authority Type
- h. By County
- i. By State (California)

Based on the selection criteria mentioned above, the following search results will be generated:

- Total Number of Groundwater basins/sub-basins
- Total number of Groundwater Management Plans
- Total Number of Monitoring Plans
- Authority Type
- Monitoring Entity
- Groundwater Basin/Sub-basin Name
- Groundwater Basin/Sub-basin Number
- County
- Monitoring Plan (including hyperlink to Plan)
- Groundwater Management Plan (including hyperlink to Plan)

Filter Report

Select a Filtering Criteria

- By Authority Type
- By Monitoring Entity
- By Groundwater Basin/Subbasin number and name
- All Plans

Authority Type

Water Master or Water Management Engineer
 Groundwater Management Agency
 Water Replenishment District

Run Report

Clear Selection

The "By Authority Type" and the "Groundwater Management Agency" Authority Type have been selected to run a Report on Basins.

Hit "Run Report".

1 of 1 Export to the selected format Export

The resulting report is displayed below.

Groundwater Management and Monitoring Plans

Authority Type	Monitoring Entity	Groundwater Basin/Subbasin Name	Groundwater Basin/Subbasin Number	Groundwater Management Plan	Monitoring Plan
Groundwater Management Agency	Test Organization	Covelo Round Valley	1-11		Click here to download
Groundwater Management Agency	SCROtest	Soquel Valley	3-1		Click here to download
Groundwater Management Agency	SCROtest	Santa Maria River Valley	3-12		Click here to download
Groundwater Management Agency	Mac's H2O	Santa Monica	4-11.01		Click here to download
Groundwater Management Agency	UAT Organization 1	Warm Springs Valley	5-2.02		Click here to download
Groundwater Management Agency	UAT Organization 3	Madera	5-22.06		Click here to download

Statewide Total Number of Groundwater Basins/Sub basins - 515
 Statewide Total Number of Groundwater Management Plans - 0
 Statewide Total Number of Monitoring Plans - 19

3.5.2 Water Data Reports

Report of Wells

This report provides information on Wells depending on different search criteria. You can search for CASGEM and/or Voluntary Wells.

The search is based on the following criteria:

- a) By Authority type
- b) By Groundwater Basin/Sub-basin Name
- c) By Groundwater Basin/Sub-basin Number
- d) By Monitoring Entity
- e) By County
- f) By State (California)
- g) By Region Office
- h) By Well Group

Based on the selection criteria mentioned above, the following data elements will be generated:

1. State Well Number
2. CASGEM Well Number
3. Local Well Designation
4. ME Authority Type
5. Monitoring Entity
6. Co-operating Agency Association (if Any)
7. Groundwater Basin/Sub-basin Name
8. Groundwater Basin/Sub-basin Number
9. County
10. Type of Well - CASGEM Well/Voluntary Well
11. Status of Well – Active/Inactive
12. Well Usage
13. Measurement Count (No. of Elevation Data records)
14. Earliest Elevation Measurement Date
15. Most recent Elevation Measurement Date
16. Minimum Groundwater elevation measured
17. Minimum Groundwater elevation Measurement Date
18. Maximum Groundwater elevation measured
19. Maximum Groundwater elevation Measurement Date
20. Latitude
21. Longitude

Public: Reports of Wells

Filter Report

Select a Search Criteria

CASGEM Wells Voluntary Wells

Select a Filtering Criteria

By Authority Type By County
 By Groundwater Basin/Subbasin number and name By Region Office
 By Monitoring Entity

Authority Type

Water Master or Water Management Engineer
 Groundwater Management Agency
 Water Replenishment District

Run Report

Clear Selection

The "By Authority Type" and the "Groundwater Management Agency" Authority Type have been selected to run a Report on Basins.

Hit "Run Report".

The resulting report is displayed below.

Well Data

State Well Number	CASGEM Well Number	Local Well Designation	Authority Type	Monitoring Entity (ME)	Co-operating Agency	Groundw Basin/Sut Nam
	360000N1180000W002	002	Groundwater Management Agency	Mac's H20		
	382375N1211232W001	32 CASGEM NTD	Groundwater Management Agency	Test Organization	Santa Cruz Municipal Utilities	Anderson Va
01N04E23A001H	381235N1211235W003	Test 1	Groundwater Management Agency	Senter Water Company		Hoopla Valley
01N04E23A002H	381235N1211235W004	Test 2	Groundwater Management Agency	Senter Water Company		Hoopla Valley
01N04E23A003H	381235N1211235W005	Test 3	Groundwater Management Agency	Senter Water Company		Hoopla Valley
04N22W05L0						Deadman Lal

NOTE: This report has many columns and you must scroll to the bottom to reach the horizontal scroll bar to view all of the columns.

Report of Monitoring Entities

This report provides a listing of MEs within the CASGEM system.

The search is based on the following criteria:

- d) By Authority type
- e) By Groundwater Basin/Sub-basin name
- f) By Groundwater Basin/Sub-basin number
- g) By Region Office

Based on the selection criteria mentioned above, the following data elements will be generated:

1. Monitoring Entity Name
2. ME Authority Type
3. Last Elevation Data Submitted

4. Number of Wells Associated

The "By Authority Type" and the "Groundwater Management Agency" Authority Type have been selected to run a Report on Basins.

Hit "Run Report".

The resulting report is displayed below.

CASGEM Online System

Home | Notifications | Well Information | View Map | Reports | My

Public: Report of Monitoring Entities

Filter Report
Select a Filtering Criteria

By Authority Type By Region Office
 By Groundwater Basin/Subbasin number and name

Authority Type

Groundwater Management Agency
 Water Replenishment District
 Local Agency Pursuant to WC Part 2.75

Run Report **Clear Selection**

1 of 1 | Export to the selected format | Export

Monitoring Entities

Monitoring Entity	Authority Type	Last Elevation Data Submitted	Associated Well Count
Mac's H2O	Groundwater Management Agency		1
SCROtest	Groundwater Management Agency		0
SCROtest	Groundwater Management Agency		0
Test Organization	Groundwater Management Agency		0
JAT Organization 1	Groundwater Management Agency		0
JAT Organization 3	Groundwater Management Agency		0

Report Generated on 11/7/2011 12:23:52 PM Page 1

3.5.3 Elevation Data Reports

Report of Groundwater Elevation Data

This report provides Elevation Data of wells. The public user can search for CASGEM and/or Voluntary Wells.

The search is based on choosing a data range and one of the following search criteria:

- a) Well Status (CASGEM/Voluntary)
- b) Well Group
- c) Monitoring Entity
- d) Groundwater Basin/Sub-basin name
- e) Groundwater Basin/Sub-basin number
- f) County

Based on the selection criteria mentioned above, the following data elements will be generated:

1. CASGEM ID
2. Local Well Number
3. State Well Number
4. Date
5. Military Time (PST)
6. NM
7. QM
8. Reading @ RP
9. Reading @ GS
10. RP to WS
11. RP Elev
12. GS Elev
13. WSE
14. GS to WS
15. Measurement Method
16. Accuracy
17. Collecting/ Co-op Agency
18. Voluntary or CASGEM measurement
19. Comments

Public: Report of Groundwater Elevation Data

Filter Report

Select a Date Range

From 01/01/2011 To 11/01/2011

Select a Filtering Criteria

- By Well Type
- By Monitoring
- By Groundwater Basin/Subbasin number and name
- By Contaminant

Select a Search Criteria

- CASGEM Wells
- Voluntary Wells

Run Report

Clear Selection

A Date Range is selected along with two filter criteria.

Hit "Run Report".

The resulting report is displayed below.

Groundwater Elevation Data

CASGEM ID	Local Well Number	Date	Military Time (PST)	No Measurement	Questionable Measurement	Reading @RP
340169N1180120W001	Buddy Moss Well	10/3/2011	12:27			1,272.000
340169N1180120W001	Buddy Moss Well	3/31/2011	16:03			1,272.000
340169N1180120W001	Buddy Moss Well	10/12/2011	06:25	1 - Pumping		
340169N1180120W001	Buddy Moss Well	10/25/2011	10:20		1 - Pumping	1,227.000
342112N1223422W001	33 CASGEM	9/1/2011	00:00			0.000
342112N1223422W001	33 CASGEM	10/18/2011	00:00			10.000
342112N1223422W						127.000

NOTE: This report has many columns and you must scroll to the bottom to reach the horizontal scroll bar to view all of the columns.

3.6 View Map

The public user can also utilize the GIS functionality to search for wells and perform analysis using the GIS application. To access the GIS functionality, the public user has to click on the View Map tab.



CASGEM
Online System

Welcome: UAT Public User 1

Home Notifications Well Information **View Map** Reports My Profile Sign Out

Public: View Map

GIS Minimum Requirements

The CASGEM web application has been designed to work most efficiently on:

- CPU : Dual Core - 1.67 GHz
- RAM : 1GB
- OS : Windows XP
- Browser : IE8
- Flash Player : 10.1 and above

If your system does not meet these specifications, the application might not perform optimally.

Note: Make sure that all the pop-up blockers are turned-off, including those that are part of Google, Yahoo, MSN or similar toolbars.

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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➤ Upon entering the Map View, you can do the following:

1. Search for Wells/Basins/Notifications
2. Turn on/off Layers on the Map
3. Identify Wells
4. Draw & Measure on the Map
5. Print anything on the Map
6. Export search results
7. View Hydrographs for wells

View Designated Basins and Unmonitored/Not Designated basins (any basin where there is not a Designated ME, then it will be an Unmonitored or Not Designated basin).

3.8 My Profile

The My Profile tab allows you to view and edit user profiles and change passwords.

CASGEM Online System

Welcome: UAT Public User 1

Home | Notifications | Well Information | View Map | Reports | **My Profile** | Sign Out

Public: Home

User Profile
Change Password

Welcome to the California Statewide Groundwater Elevation Monitoring (CASGEM) Online System - Public Portal

CASGEM provides public access to statewide groundwater elevation and monitoring well data. The online system allows you to:

- View lists of local agencies, counties and associations who have volunteered to serve as CASGEM Monitoring Entities providing groundwater data statewide
- View CASGEM Monitoring Plans and Groundwater Management Plans (via hyperlink)
- Search and view groundwater elevation data
- View a hydrograph that shows groundwater elevations for a well
- Search and view groundwater monitoring well information
- View mapped locations of CASGEM wells, monitoring area boundaries, and other geographic information
- Measure distances between wells and size of monitoring areas and basins
- Download well information, groundwater data, hydrographs and maps
- Download summary reports on wells, groundwater elevations, Monitoring Entities and basin information

Please click on one of the above tabs to begin. Please look at this [help](#) file for answers to common questions.

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Details about each of these functionalities can be found in the sections that follow.

3.8.1 User Profile

The User Profile link under the My Profile tab allows users to enter or edit their personal details, such as address and contact information. To edit, click on any field and edit the information within it.

- To edit Challenge Information (Security Question and Answer); select the Challenge Information link to expand.
- To add a new phone number, simply click on the plus icon next to “Add New Phone”. The system will display a Phone Details window with empty fields where you can add a phone number. Click “Apply Changes” to save.
- To edit a phone number, click on Edit within the Add New Phone table. Edit the Phone Details in the pop-up window and click on “Apply Changes” to save.
- To delete a phone number, click on the “Delete” option within the Phone Details table.
- To add a new address, simply click on the plus icon next to “Add New Address”. The system will display an Address Details window with empty fields where you can add address information. Click “Apply Changes” to save.
- To edit an address, click on Edit within the Add New Address table. Edit the Address Details in the pop-up window and click on “Apply Changes” to save.
- To delete an address, click on the “Delete” option within the Address Details table.

Upon making any changes within the Edit User Profile page, you must click "Save" to save all of this information to the CASGEM system.



Welcome: UAT Public User 1

- Home
- Notifications
- Well Information
- View Map
- Reports
- My Profile
- Sign Out

Edit User Profile

User Information

Username (Email) *	<input type="text" value="uatp1@ttgtest.com"/>	Title	<input type="text" value="Enter Title"/>
First Name *	<input type="text" value="UAT Public"/>	Last Name *	<input type="text" value="User 1"/>

Challenge Information

Phone Details *at least one phone is required

+ Add New Phone			
Edit	Delete	Type	Phone Number
Edit	Delete	Office Phone	(818) 500-1645

Address Details *at least one address is required

+ Add New Address			
Edit	Delete	Type	Address
Edit	Delete	Office	901 P Street, Sacramento, California - 234634643

- Save**
- Discard Changes
- Back To Home

[Back to Top](#) | [Help](#) | [Comments or Suggestions](#)

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3.8.2 Change Password

The Change Password link under the My Profile tab allows you to change their password. In order to change your password, enter your old password and then enter your new password twice to verify. After making your changes, click “Change” to update your password.

The screenshot shows the CASGEM Online System interface. At the top left is the CASGEM logo. To the right, it says "Welcome: UAT Public User 1". Below this is a navigation menu with tabs: Home, Notifications, Well Information, View Map, Reports, My Profile, and Sign Out. The "My Profile" tab is active, and a dropdown menu is open showing "User Profile" and "Change Password". The "Change Password" page contains the following form fields:

- Username(Email): uatp1@ttgtest.com
- Old Password *
- New Password *
- Verify Password *

Below the form is a link for "Password Guidelines". At the bottom of the form are two buttons: "Change" (highlighted with a red box) and "Cancel".

At the bottom of the page, there is a footer with the following text: "Back to Top | Help | Comments or Suggestions", "Conditions of Use | Privacy Policy", "Copyright © 2010 State of California", and "10/31/2011".



4.0 Additional Information

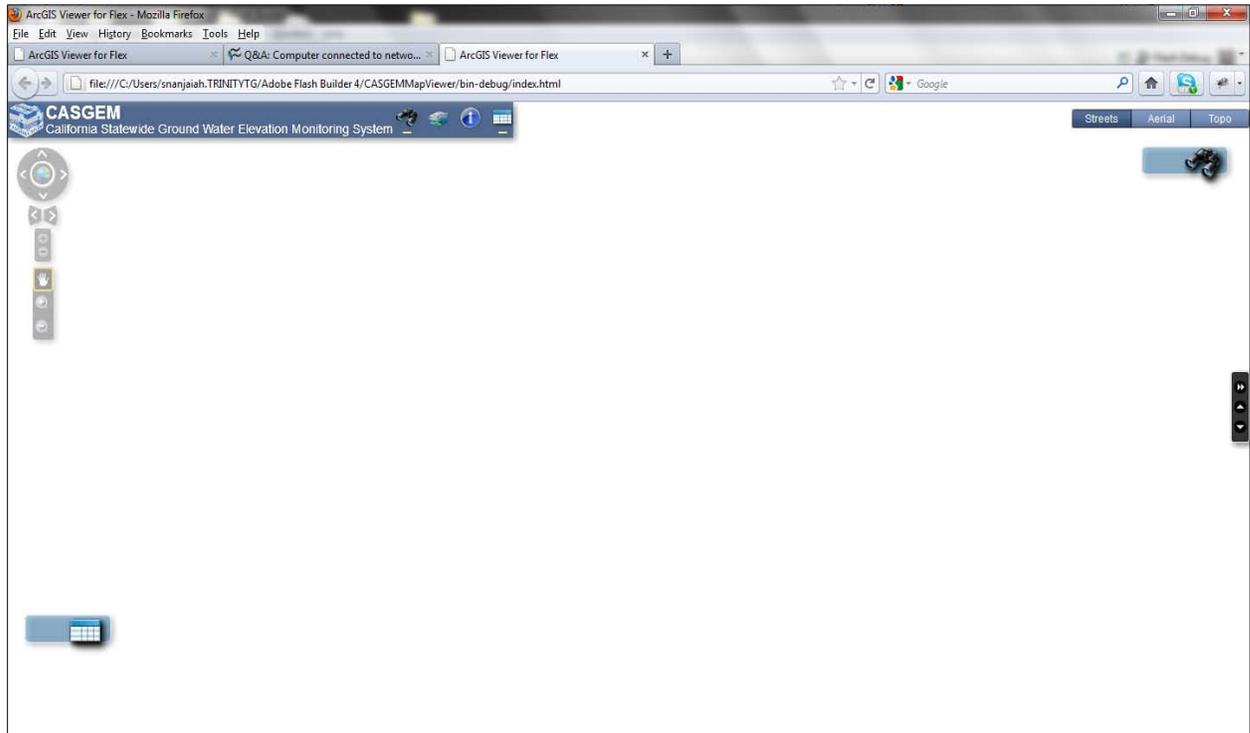
Section Topics

4.1 [Known Errors](#)

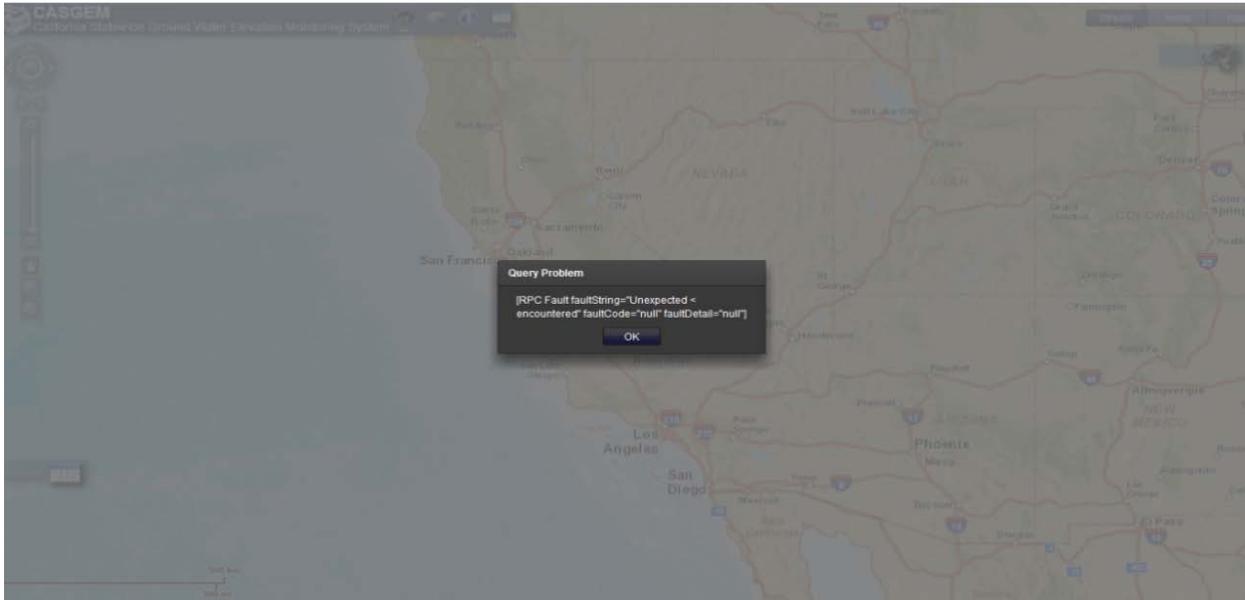
4.2 [Further Help](#)

4.1 Known Errors

1. There is a possibility that the ESRI ArcGIS online service is not available. We have no control over the availability of the base maps if this happens. During this error, you will be able to access the GIS application, but none of the map layers will be loaded. Typically you would see a white screen as shown below.



2. There is a possibility that the operation layers hosted on DWR's GIS servers are not available. This might happen if there are any internal network problems at the DWR headquarters. If any problems are encountered, please contact the system administrator. The error you will see if this problem is encountered is shown below, and the user will be asked to close the GIS browser window.



3. There is a possibility that the operation layers hosted on DWR's GIS servers are not available. This will happen daily between 2:00AM and 3:00AM due to server maintenance at the DWR headquarters. If any problems are encountered, please contact the system administrator. The error you will see if this problem is encountered is shown below, and the user will be asked to close the GIS browser window.

