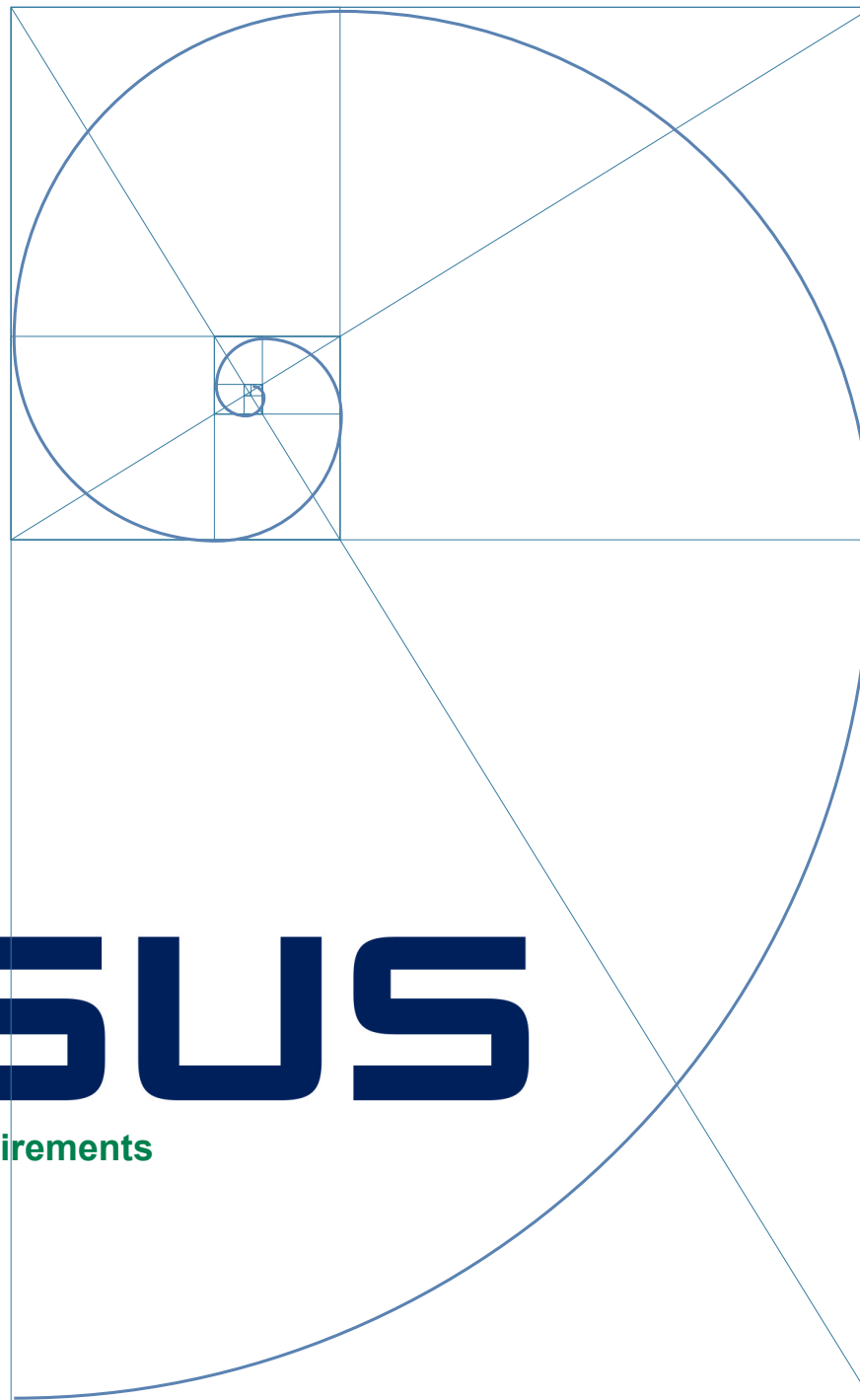


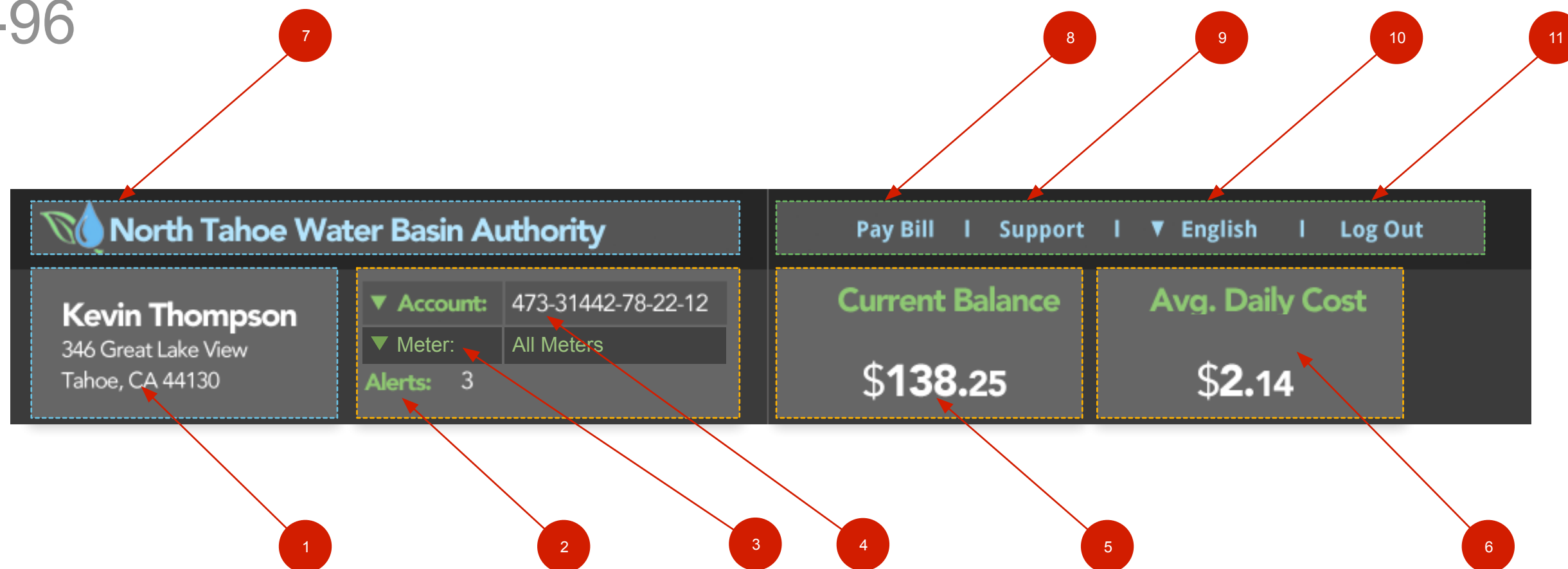
WCP-96



SENSUS

Widget Designs / Interactions and Requirements

WCP-96

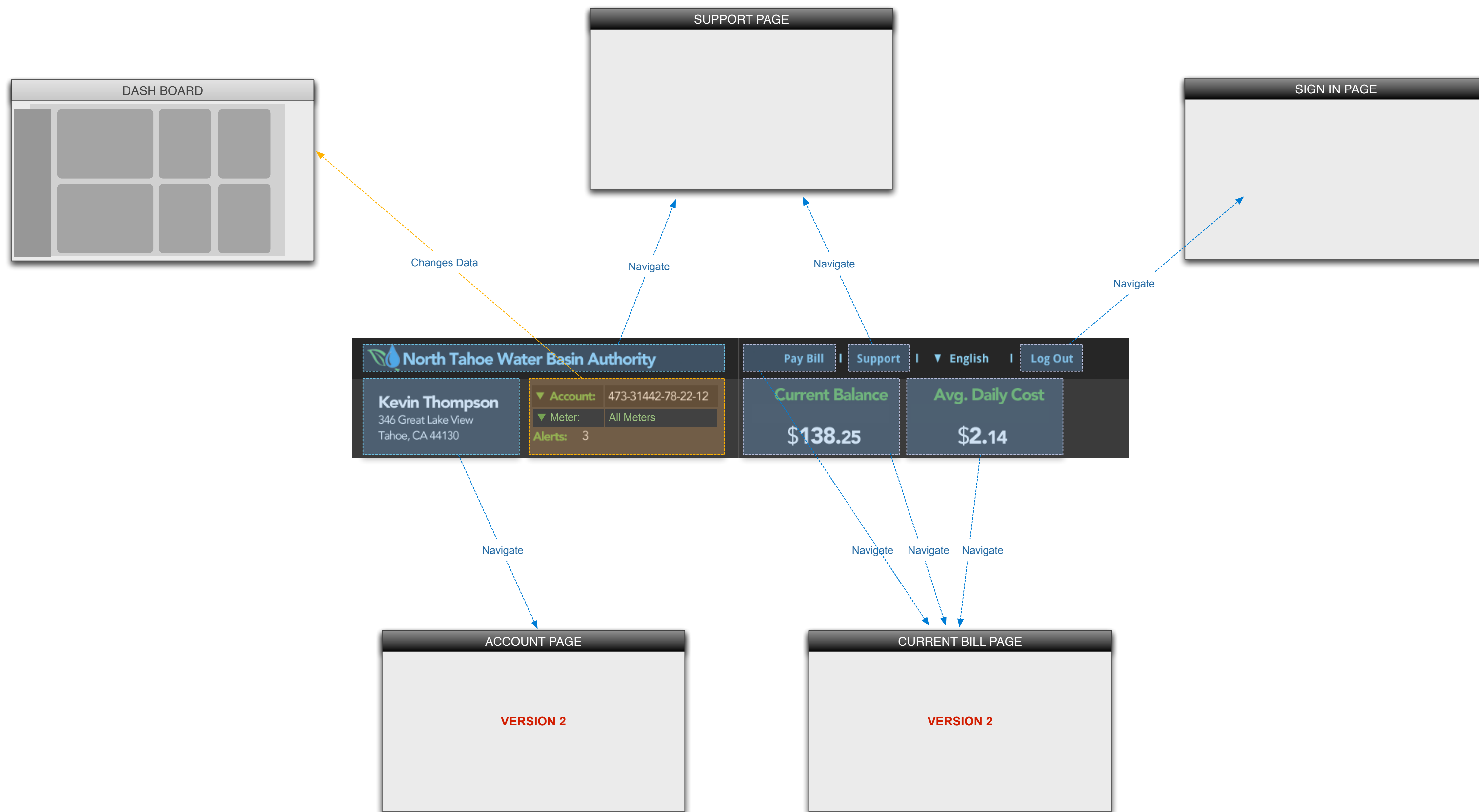


Assumptions and Developer's Notes

Detailed Annotations

Object	Interaction	Rules / Considerations
1 Name associated with Account ID. Street, City State is also shown.	There is no supported interaction as this is static display text.	The text always reflects what is listed for the Account that is currently in focus. Change the account and the text <u>may</u> also change.
2 Alerts Indicator	The numerical value associated with Alerts is display text. The Alert is associated with the in focus Account as an aggregate of all meters.	If there are no Alerts then a zero is presented. There must always be a numerical value default being zero
3 Meters Indicator	The user CAN switch between Meters via the pull down. A list is displayed. Changing the meter changes the widget's data on the Dashboard	There is always at least One Meter.
4 Account Indicator	If there are more than one account associated with this ID then there is a pull down. The user may switch between accounts.	The user may switch between accounts. All items on the page are recalculated to support whichever Account is in focus
5 Current Balance Indicator	This widget shows the "Due Date" and the amount due. Clicking on this widget will take you to the Account page.	If the dollar amount can not be displayed then the widget will display the Consumption. See detail for this widget for more info
6 Average Daily Cost Indicator	This widget shows the "Average Daily Cost". Clicking on this widget will take you to the Account page.	If the dollar amount can not be displayed then the widget will display the Consumption. See detail for this widget for more info
7 Client Branding Bar	Click /Tap to bring up the support page	Small Logo is supplied by Client. The majority of the Branding Bar shall be text.
8 Main NAV	Currently the Main NAV is comprised by 4 items: Pay Bill / Support / English / Log Out	More requirements detail around Pay Bill is required.
9 Support Link	A link is provided for Support/Help. Click/tap navigates the user to the Support Page	Conceptually, the support page would display a list of Q&As and telephone numbers for the user to access.
10 Language	This is a drop down menu. The user may select the language in which the page should be displayed.	Supported languages must be tested to ensure they do not "break" the page when they are invoked.
11 Log Out	By clicking/tapping this link the user is presented with a dialog asking them to confirm that they want to Log Out. If affirmative then the user is returned to the Sign In screen.	

WCP-96 High Level Annotation Navigation from the Account Header Widget





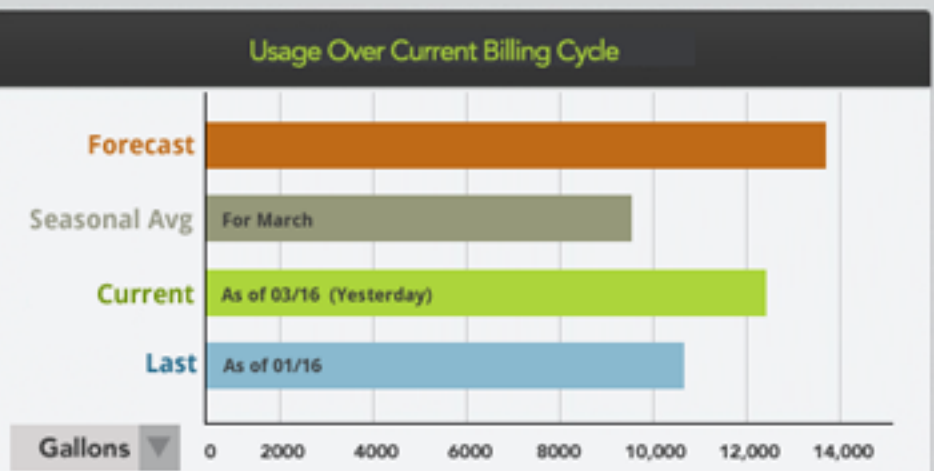
North Tahoe Water Basin Authority

Kevin Thompson Account 473-31442-78-22-12
346 Great Lake View
Tahoe, CA 44130
Meters: 3
Alerts: 2

- Dashboard
- Current Bill
- Usage / Forecast
- Alerts
- Meters
- Thresholds
- Benchmarks
- History
- Account
- Settings
- Conservation

Current Balance
\$138.25

Avg. Daily Cost
\$2.14



Water Threshold

62%
Consumed this cycle

Meter Activity

+75%
of consumption is from meter #2

+\$64.20
Increase over last cycle

Alerts and Notifications this Billing Cycle

- Feb 27**
Threshold alert details
- Feb 23**
Threshold alert details

Notifications

03/12/15 dolor sit amet, consectetur adipiscing elit. Nam illud vehementer green, eundem beatum esse [more](#)

03/14/15 dolor sit amet, consectetur adipiscing elit. Nam illud vehementer green, eundem beatum esse [more](#)

3 Alerts

3 Notifications

Out Doors Watering

Menlo Park

M W F

Nights
Water Monday, Wednesday and Fridays nights

Benchmark (within 1 mile)

+10%
You consume 10% more for a single family home





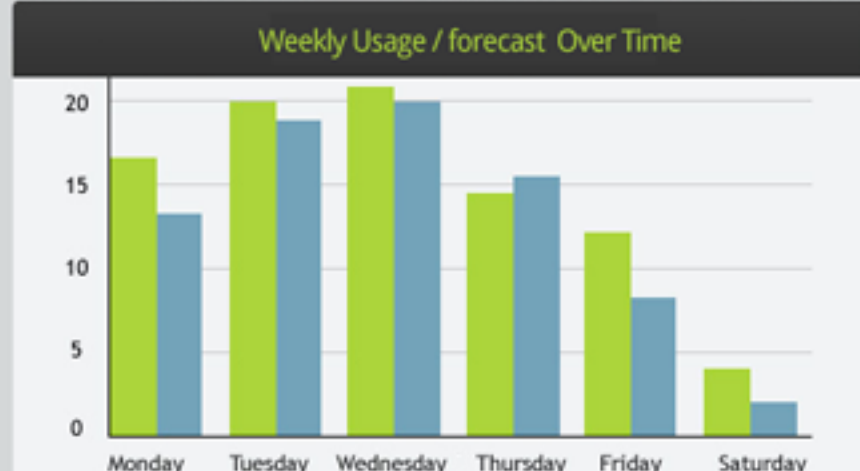
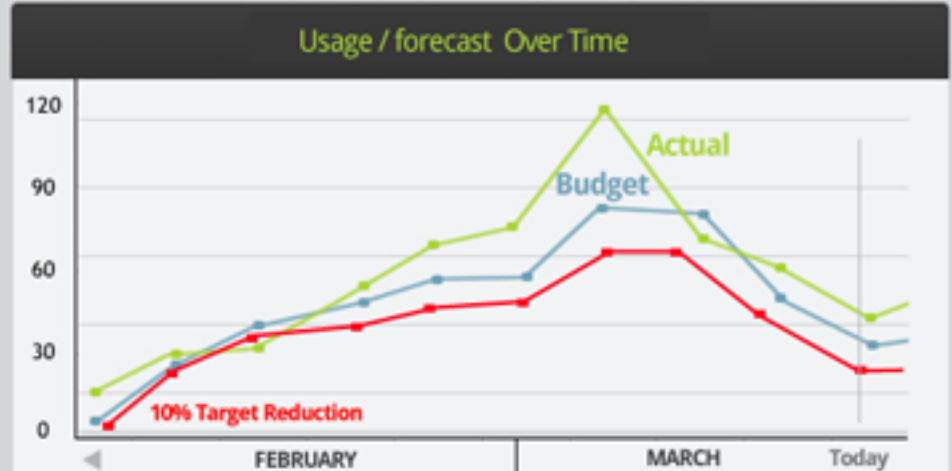
North Tahoe Water Basin Authority

Welcome KThompson: [Home](#) | [Pay Bill](#) | [Support](#) | [English](#) | [Log Out](#)

Kevin Thompson ▼ Account 473-31442-78-22-12
 346 Great Lake View
 Tahoe, CA 44130 Meters: 3 Alerts: 1

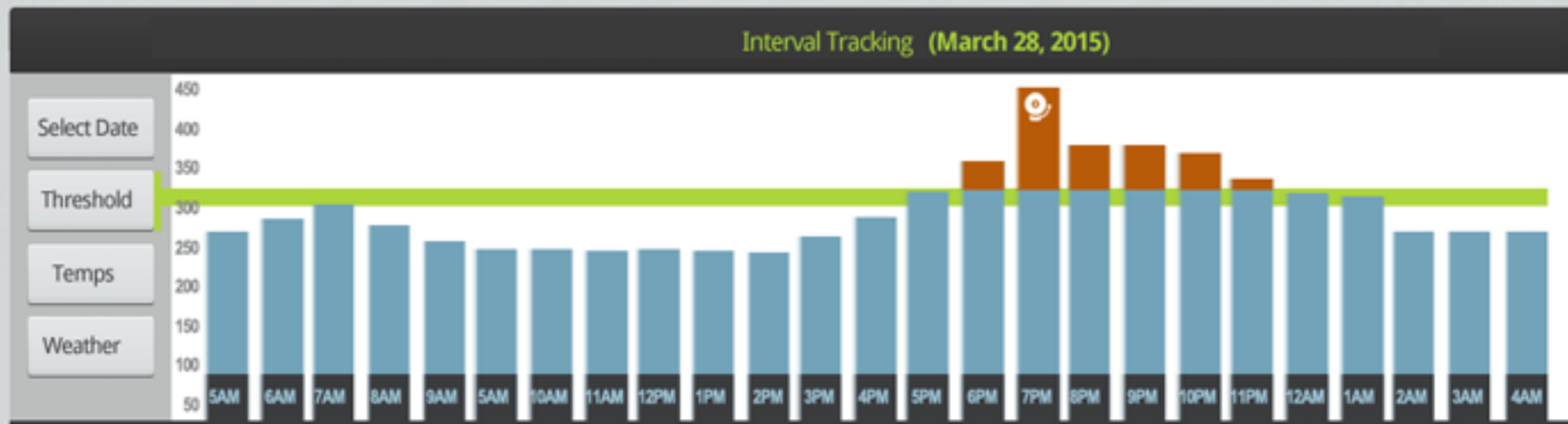
Current Balance **Avg. Daily Cost**
\$138.25 **\$2.14**

- Dashboard
- Current Bill
- Usage / Forecast
- Alerts
- Meters
- Thresholds
- Benchmarks
- History
- Account
- Settings
- Conservation



Meter 1 ▼ **+41%**
 Increase over the same period last year

Meter 1 ▼ **+12%**
 Increase over the same week last year



Meter 1 ▼ Gallons ▼ **+16%**
 Increase over the same day last year



ns and Conditions

WCP-96 High Level Annotation Navigation from the Account Header Widget

Assumptions and Developer's Notes



Dashboard View Account: 587321-1406-BRK-21-004

- Current Bill
- Usage Usage Alert Threshold
- Forecast
- Alerts
- Meters
- Threshold
- Benchmark
- History
- Account
- Settings
- Conservation

How do I compare?

Category	Value
Like You	40%
You	73%

Meter Activity

Meter	Percentage
Meter 2	73%
Meter 1	1%
Meter 3	26%

On This Date Last Spring

Consumption	Percentage
Consumed this cycle	16%





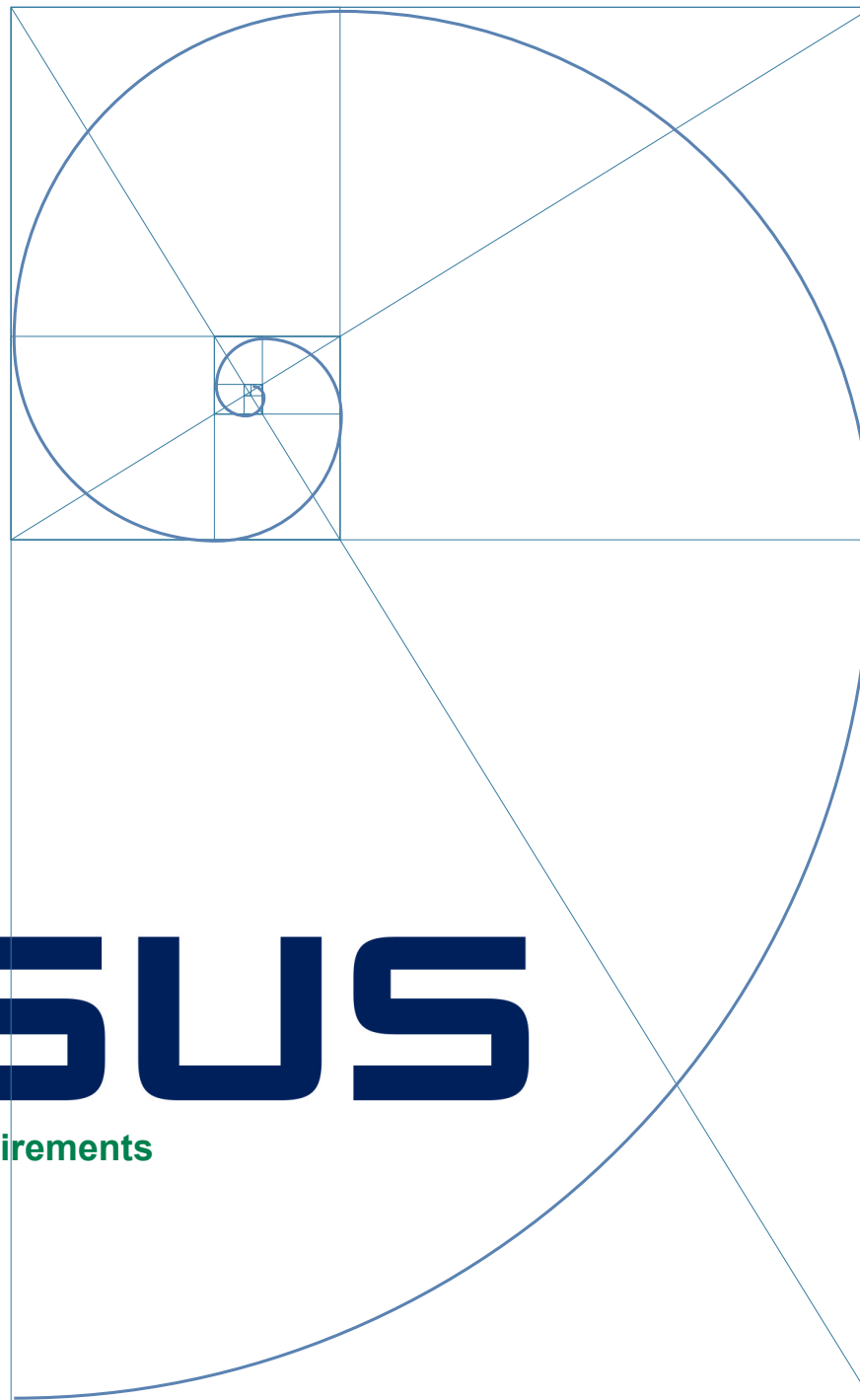
Usage Alert Threshold



+71%

Consumed
this cycle

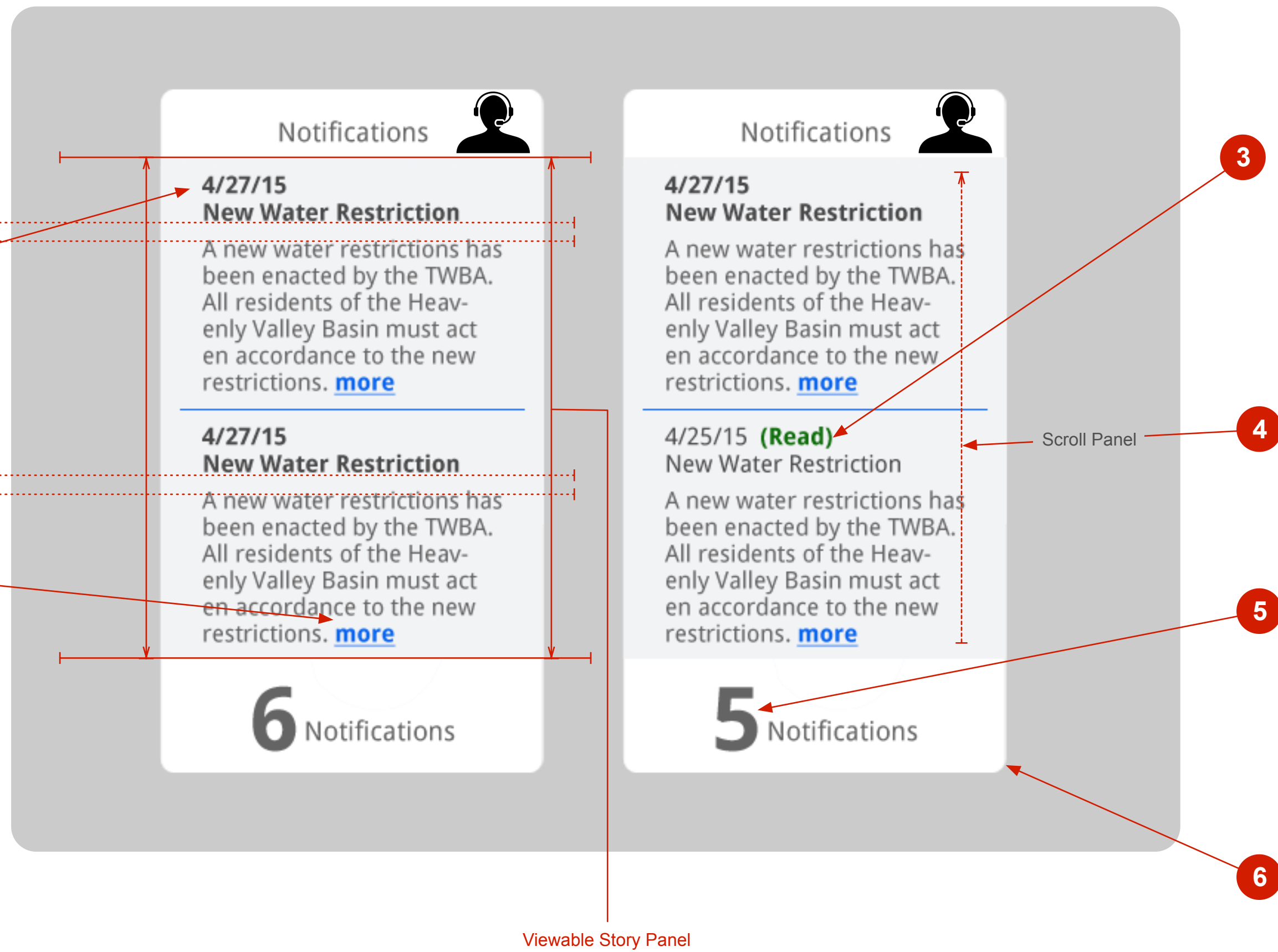
WCP-80



SENSUS

Widget Designs / Interactions and Requirements

WCP-80

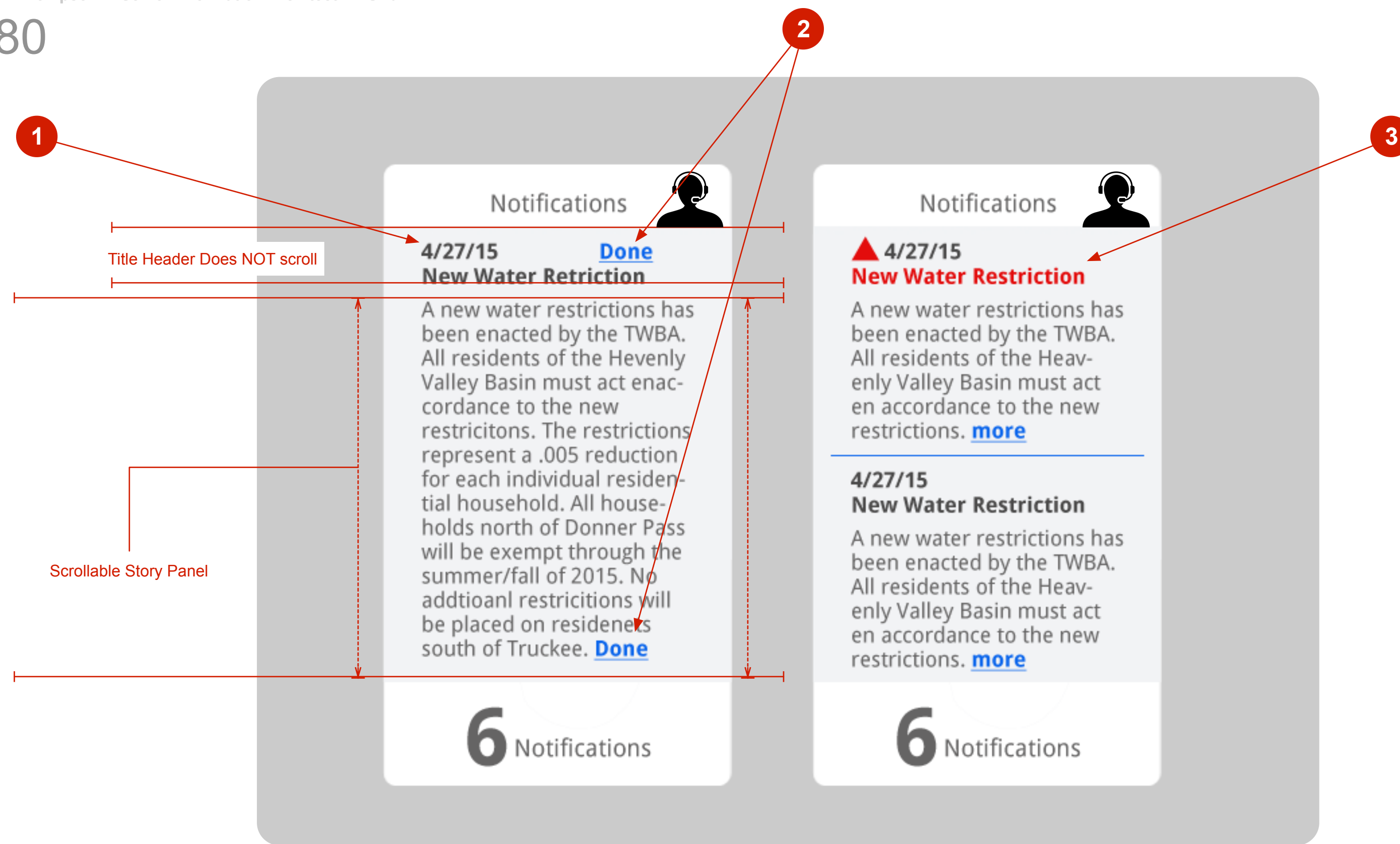


Assumptions and Developer's Notes

Detailed Annotations

Item	Interaction/Detail
1	Story Header The Story Header begins with the date the story was posted and the Title of the story. Both items are "Bolded". The Title can not be more than two rows. If the Title extends past two rows then ellipses are used to indicate "truncated text string". In the Full Story view the title can be as long as needed.
2	More transform link When the user clicks the More link, of a specific Story, the Story Panel is transformed to reveal the Full Story in which the user had selected.
3	Story Read Indicator If the user has read the Full Story when retiring to this view that particular story will not have a Bolded Title and it will have a Green text item next to the title that says (Read). All Read Stories go to the bottom of the list with the not read stories (in chronological order) topping the list.
4	Scroll Panel The user can scroll the Story Panel to reveal more Story Teasers (Notification blurbs). On a mobile device the user will use the scroll gesture on the desktop when the user hovers over the widget scroll bars are revealed.
5	"New" Indicator This number indicates the number of "New" or "Unread" Notifications in the list. This number will change each time a user reads a notification.
6	Notifications The utility will set the expiration period for their Notifications. After that expiration period has been reached expired notifications are removed from the Notifications list.

WCP-80

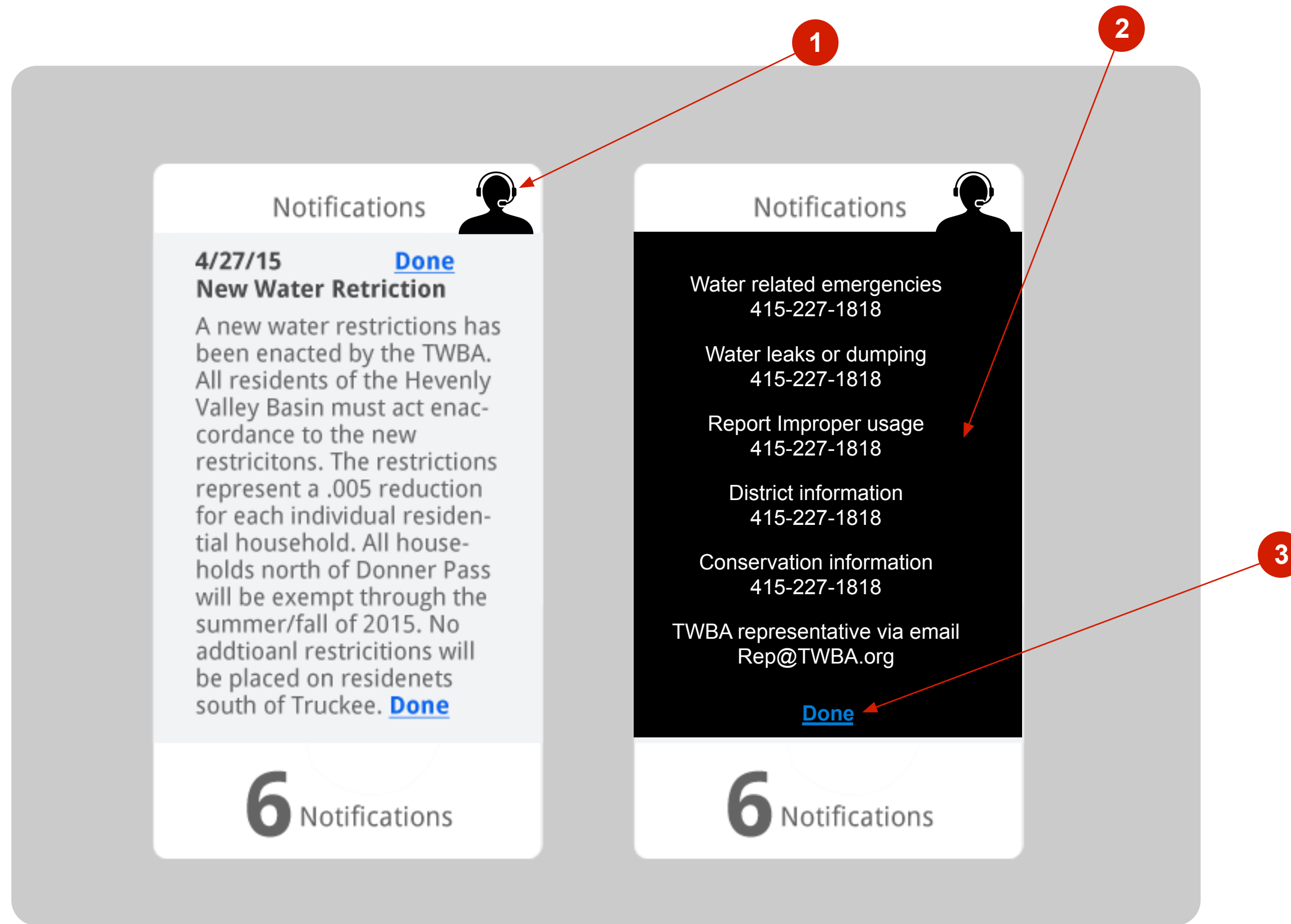


Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Full Story	After the user clicks/taps on the More (transform Link) the Story Panel will reveal the Full Story. The user may need to scroll to see the entire story. At the top of the Full Story Panel the Title Header and Date are still in place This Title Header Bar does NOT scroll. The Body Copy in the Scrollable Story Panel scrolls.
2	Done Transform Link	At the bottom of the Full Story there is a Done link. This is convenient if the user scrolls all the way to the bottom of the story. So in many cases this incorporated Done link may not be visible (because the user hasn't scrolled deep enough into the story). So in the Title Header Bar there is also a Done link. This allows the user to close the Full Story without scrolling to the bottom (the user may not be interested in the content).
3	Bulletin Indicator	The utilities can post a notification type that is a "Bulletin". It isn't necessarily an emergency message but a message that is of a critical nature. These Notifications are visually represented with a red icon preceding the date and the Bolded Title Text is also red. When this message is read the bolding is removed but the text remains red.
	Hyperlinks Mail to Links	Hyperlinks and Mail to links within the Body Copy should be "Strongly" discouraged.
	Confirmation	V2 of Portal. The utility should get a confirmation that the user has Opened a Notification. This is all transparent to the end user.
	Targeted	V2 of the Portal. The utility should be able to send Notifications to specific groups of users.

WCP-80

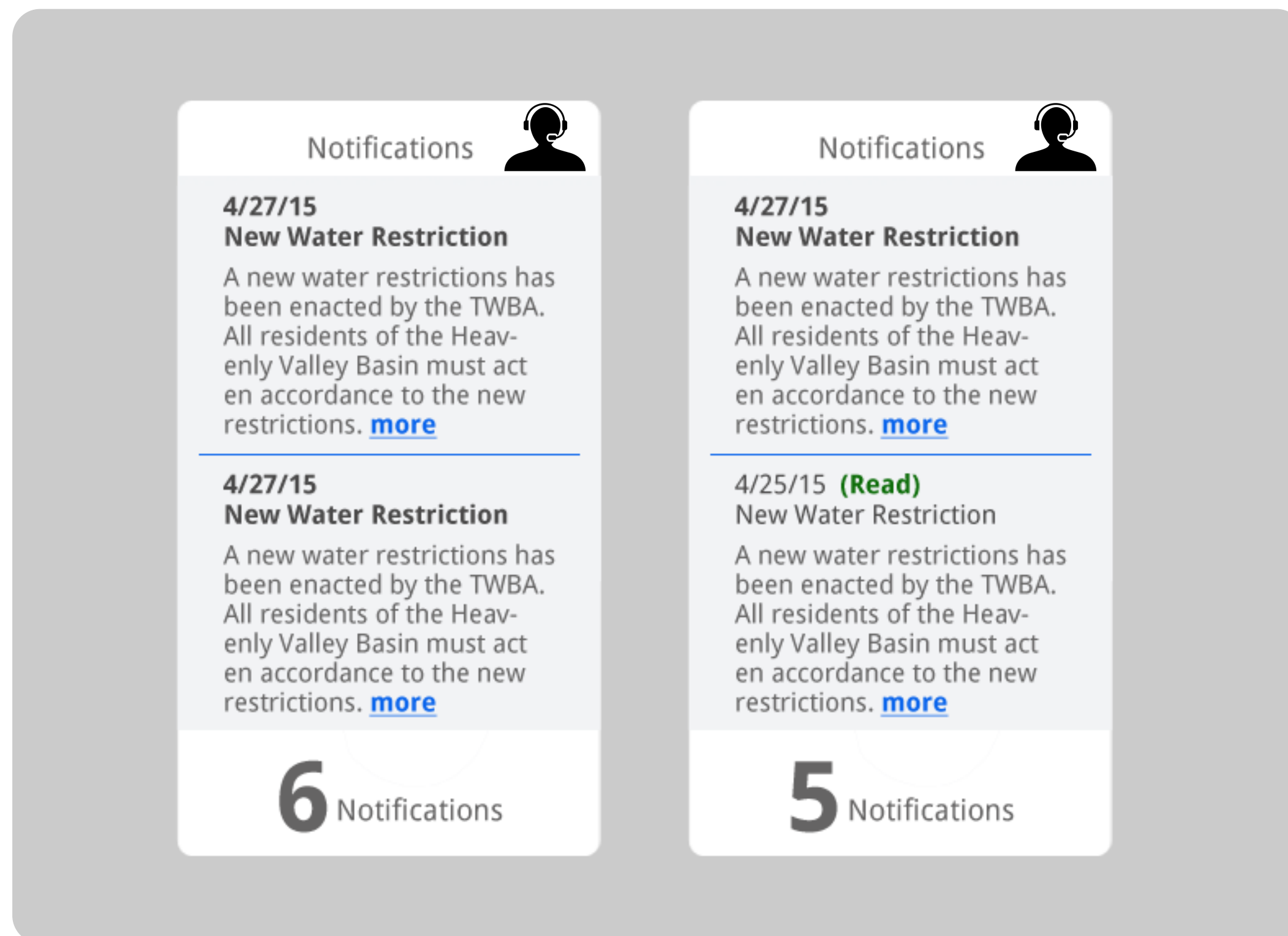


Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Contact Button	When the user clicks the Contact Button the Panel revealed is the Info Panel.
2	Info Panel	The Info Panel displays important contact information so the user can more easily reach the correct utility representative or department. Each utility will provide the contact information content that they feel is most appropriate for their constituents.
3	Done	By clicking the Done button the user resets the Panel back to the Previous View it currently had.

WCP-80

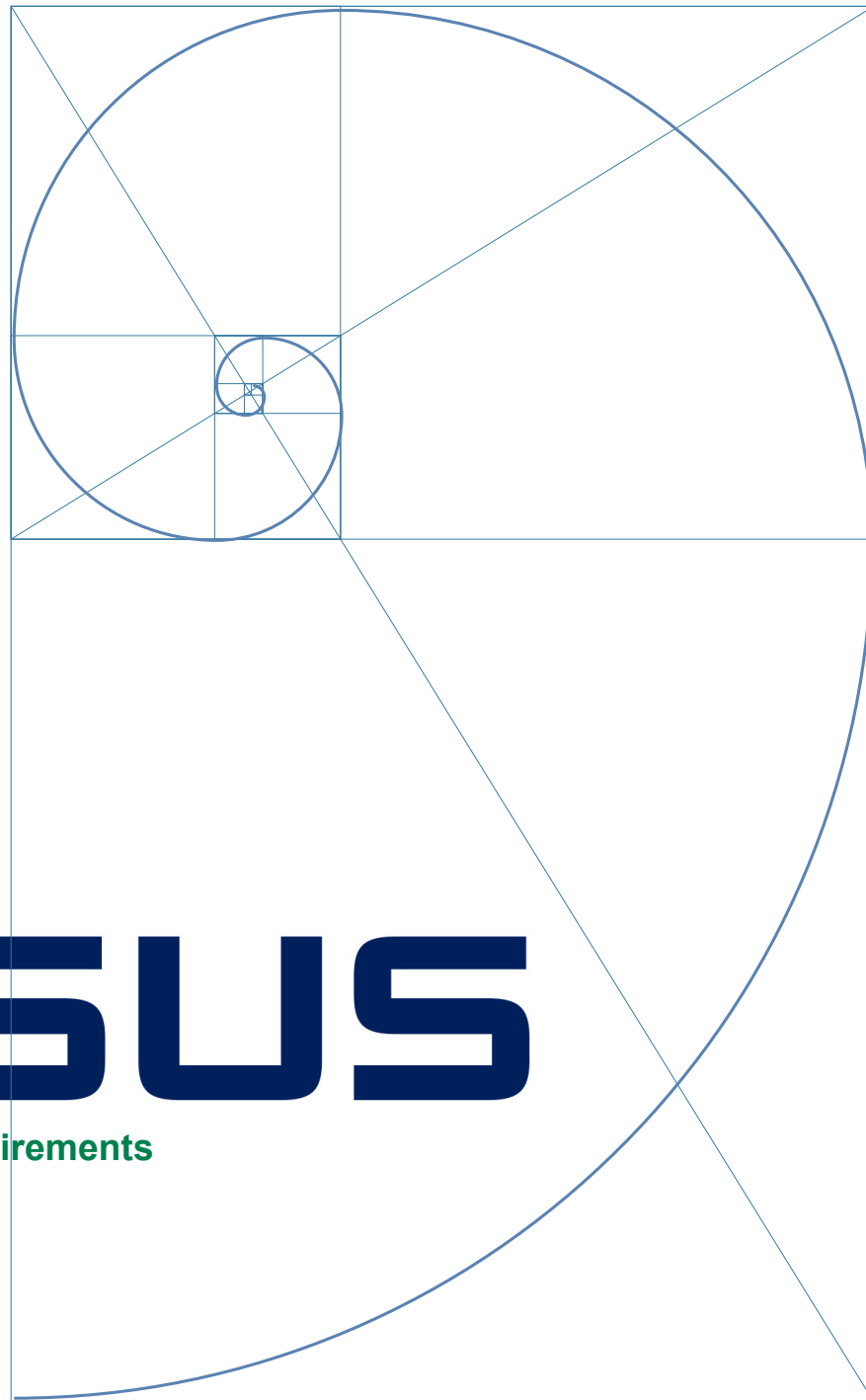


Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	No Items	
2	One Item	
3	Unusually Large Number of items	
4	Titles Only	
5	Data Can't be Loaded	
6		

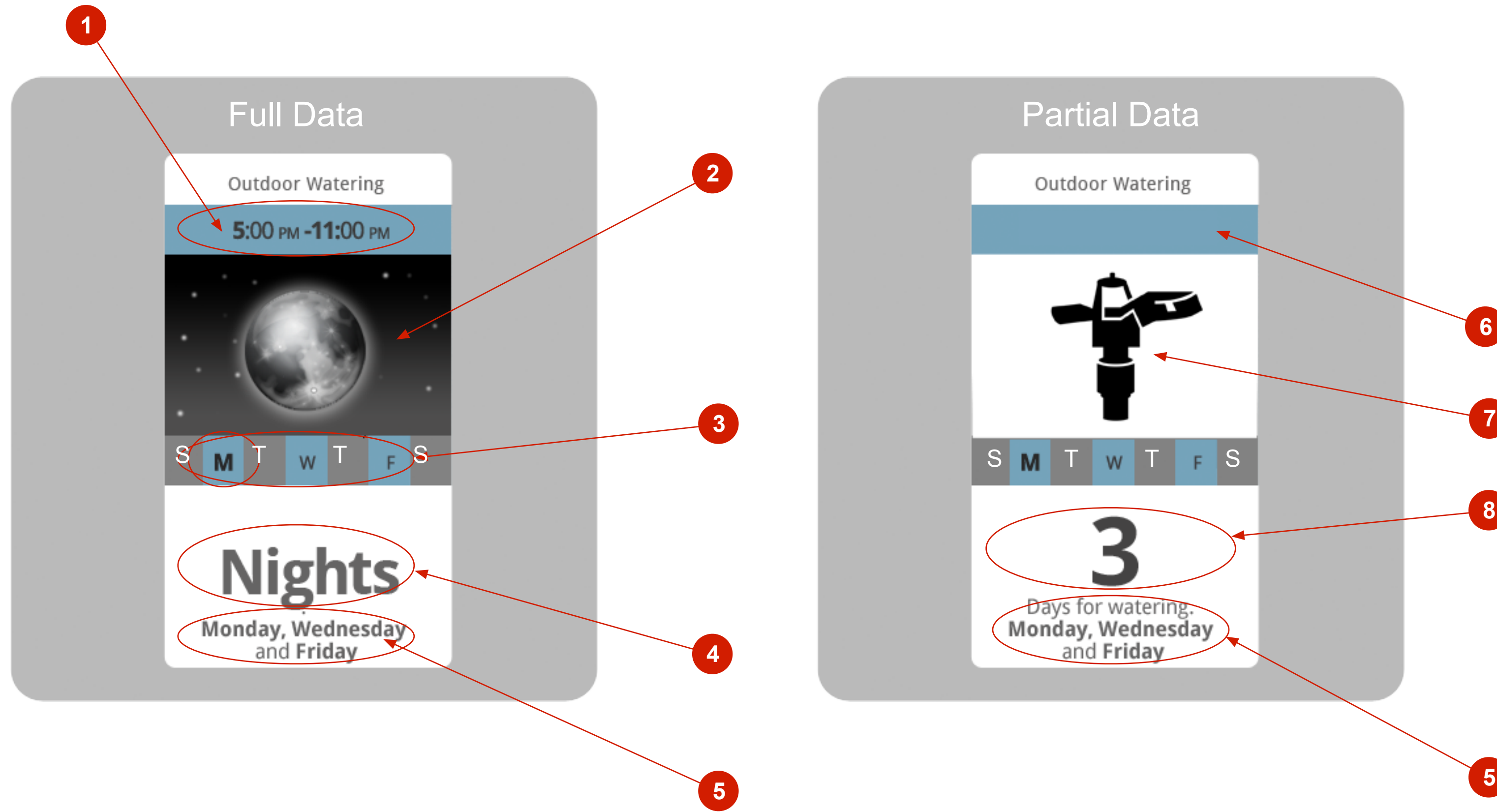
WCP-146



SENSUS

Widget Designs / Interactions and Requirements

WCP-146

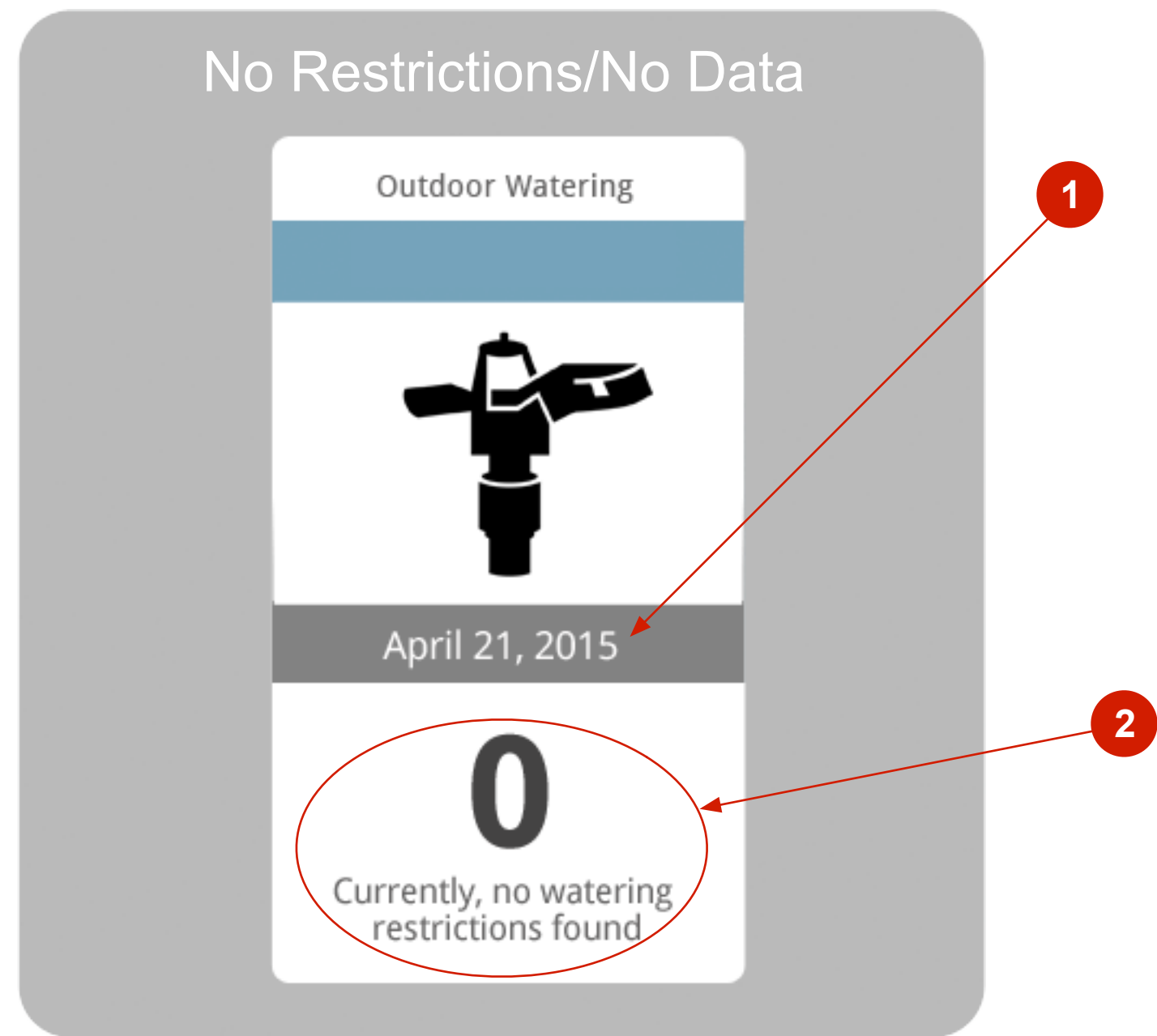


Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Time Range	If the data is available the Time Range is indicated at the top of the widget in the colored field (in this case blue). If the data is not available or there is no data, nor a specific Time Range to display the blue header strip is left empty.
2	Contextual Image	If there is a Time Range available during (6AM-8PM) the corresponding Time Range Image of a Sun will be used. The Night Time Range Image will be used for the range of (8PM-6AM). Should have a hook for the utility to set the parameters.
3	Days Indicator	The Days Indicator is represented by 7 horizontal blocks (each block representing a day of the week). Blocks with an available day will have the first letter of that day visible. If the user is viewing on the actual day the letter in the block is bold. Days not available are not revealed.
4	Large Contextual Message	If a Time Range is available, the corresponding Time Range image will be used with the corresponding Text. e.g. Night Time Image / text reads "Night". Day time image text reads "Day".
5	Small detail message	The small detail message indicates in text the actual days available for watering.
6	No Time Range	If there is NO Time Range then the Blue color field is blank/empty.
7	Default Image	If there is NO Time Range then the Contextual Image = "Default Image"
8	Large Contextual Message	If there is NO Time Range then the Large Contextual Message = "Number of available days to water".

WCP-146

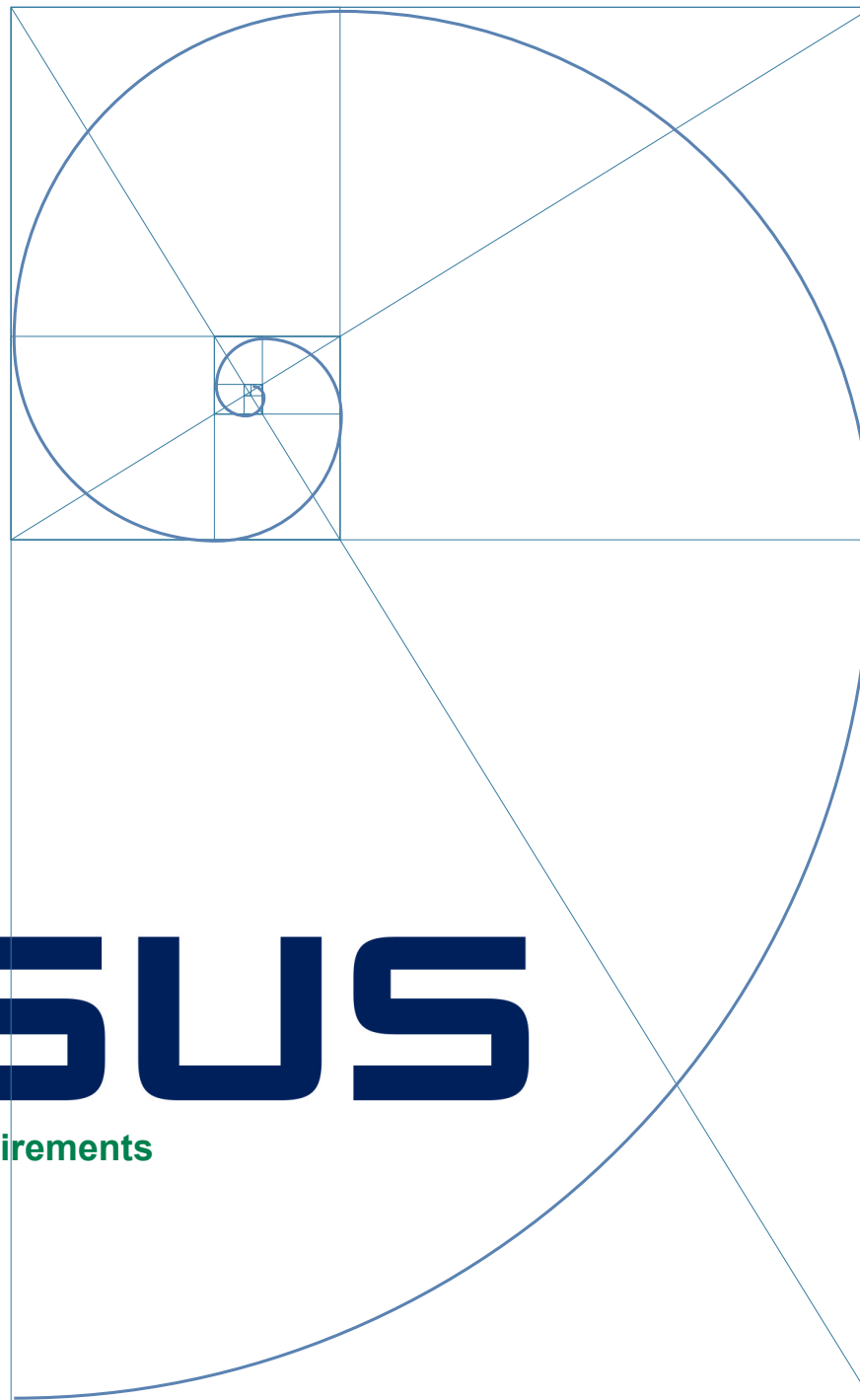


Assumptions and Developer's Notes

Detailed Annotations

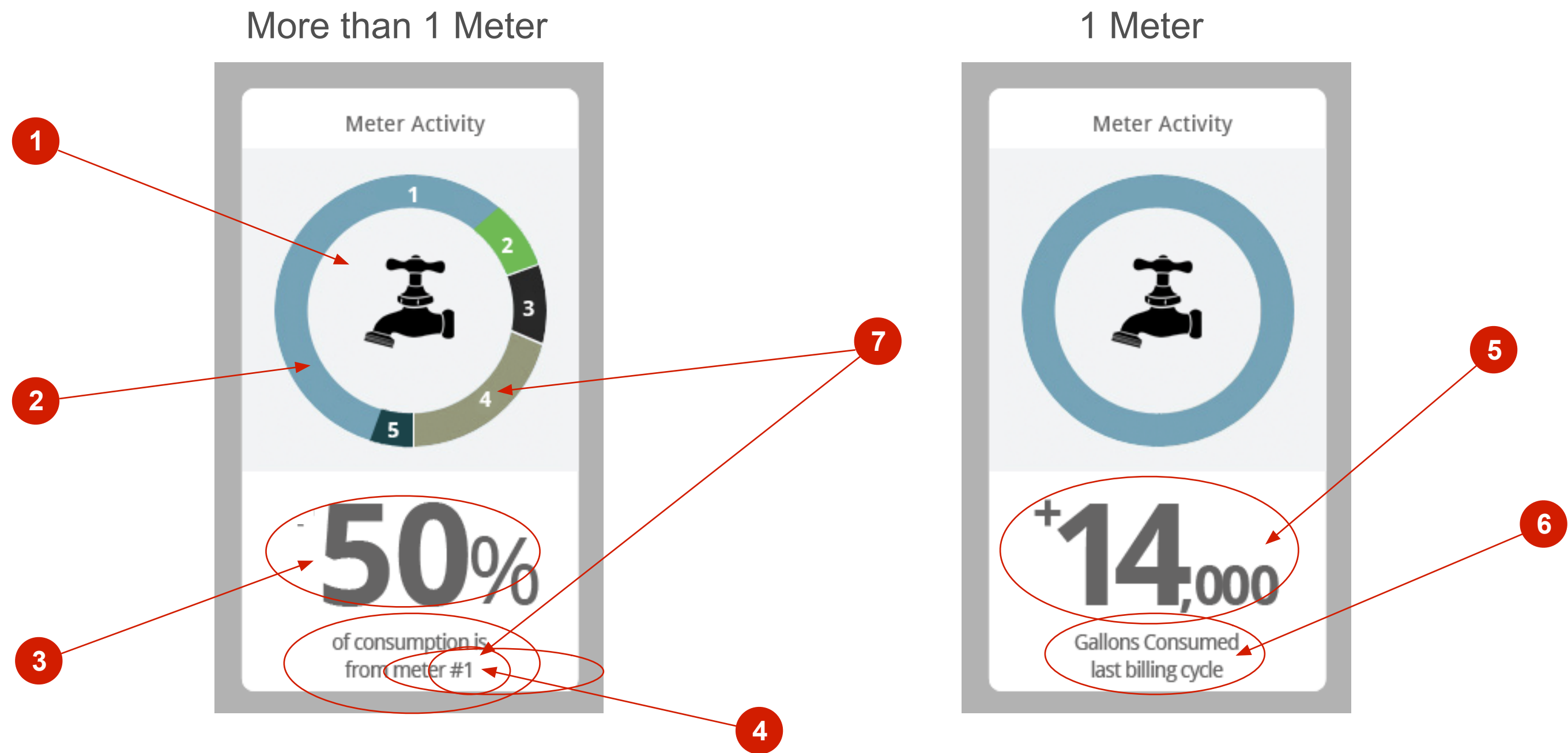
	Item	Interaction/Detail
1	Current Date	If there is NO data and or there are NO restrictions The No Restrictions/No Data view of the tile is revealed. This tile will show the current date in the gray color field.
2	Large Contextual Message	f there is NO data and or there are NO restrictions The Large Contextual Message will display a Zero. The detailed message will indicate "Currently, no watering restrictions found"

WCP-93



Widget Designs / Interactions and Requirements

WCP-93

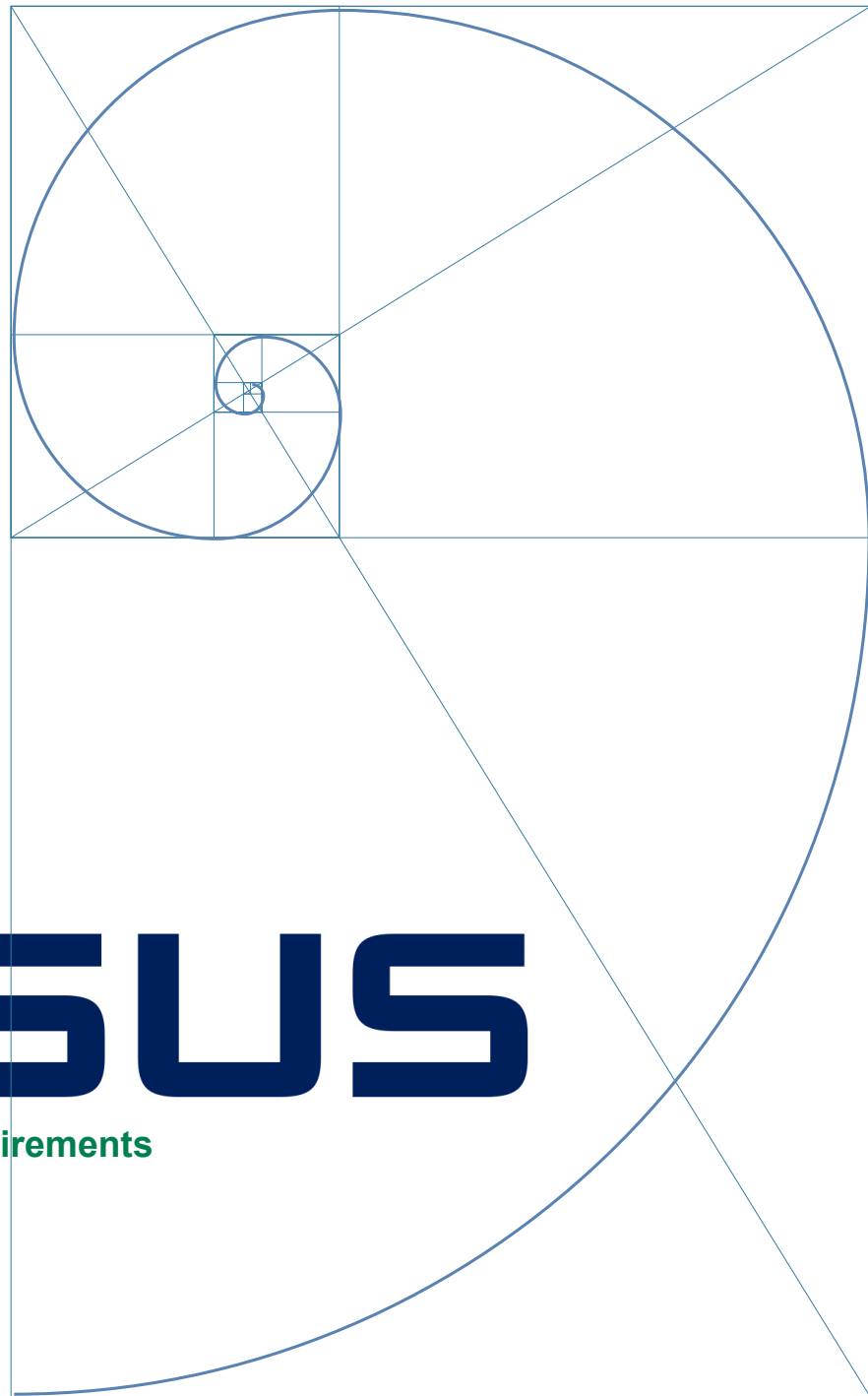


Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Chart Items	The chart is not interactive. The chart will show a max of 5 slices (for more than one meter customers) and no slices for one meter customers.
2	Chart Items Showing Up to Top 5	Regardless of the number of meters that may be on a single account the widget will show only the Top 5 Consumers. The consumption rank should correspond to the chart number e.g #1 consumer is #1 pie slice.
3	Large Message	The Large Message, in this case, will show the (%) of consumption of the number one consumer. When clicked the color of the font will change to be that of the clicked slice
4	Contextual Detail Message	This is static text that indicates context of the Large Number above (Large Message)
5	Large Message	On a (1) meter widget the Gallons consumed from the last billing cycle is displayed (maybe round the number off to keep it simple)
6	Contextual Detail Message	This is static text that indicates context of the Large Number above (Large Message)
7	Meter ID Label	When the user clicks on one to the slice the Meter Id is presented here

WCP-170

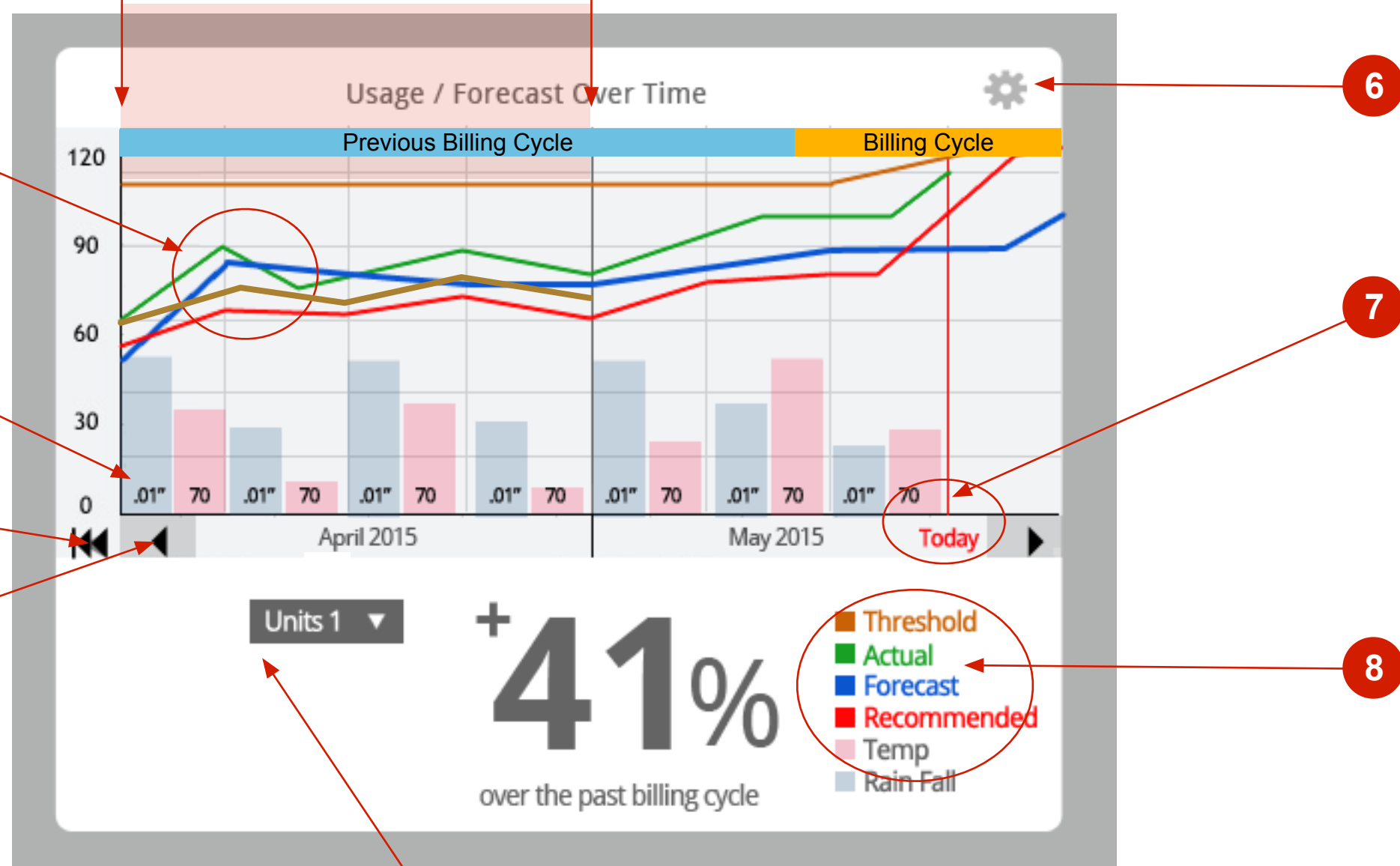


Widget Designs / Interactions and Requirements

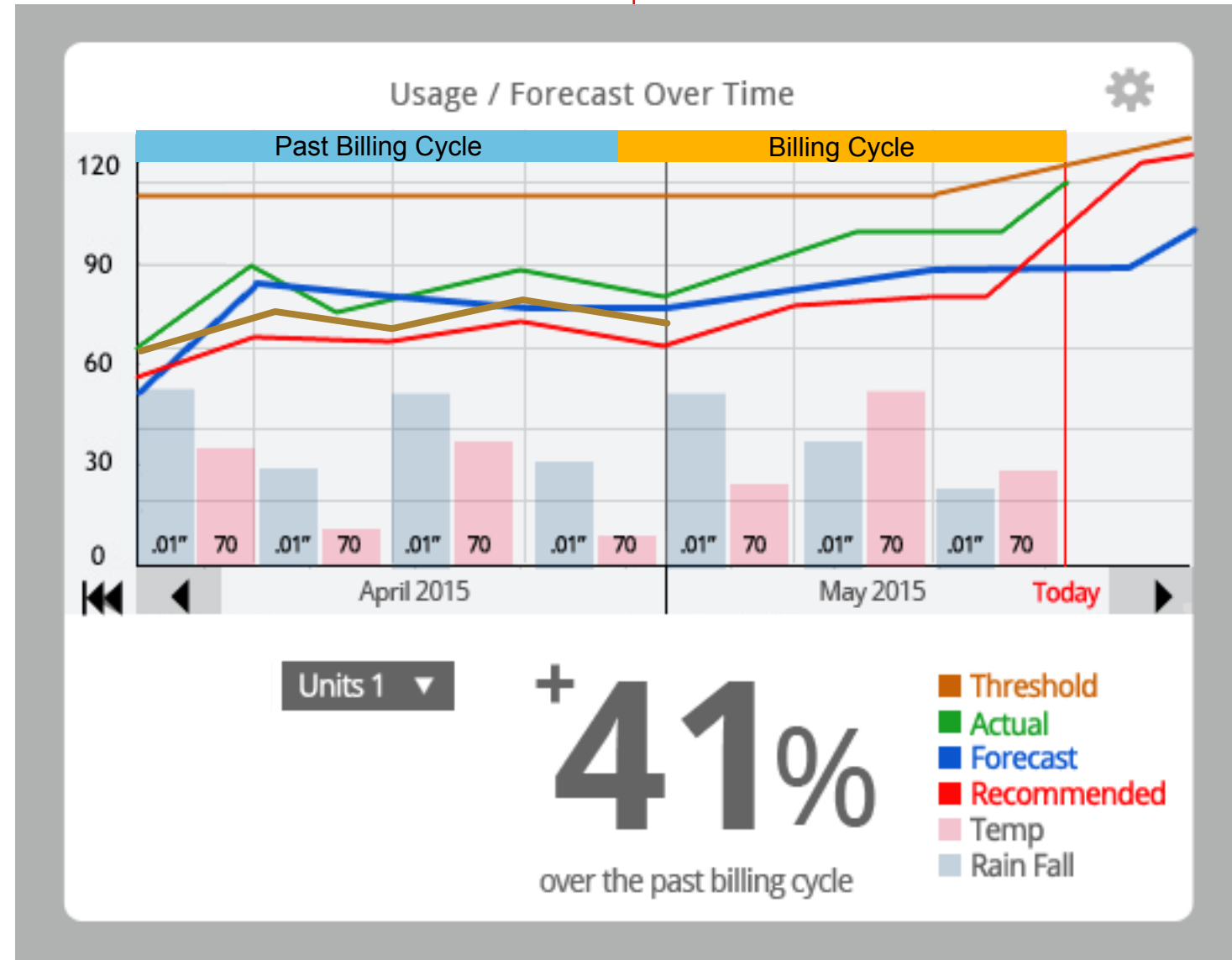
WCP-170

1 Month shown as 4 columns

More than 1 Meter



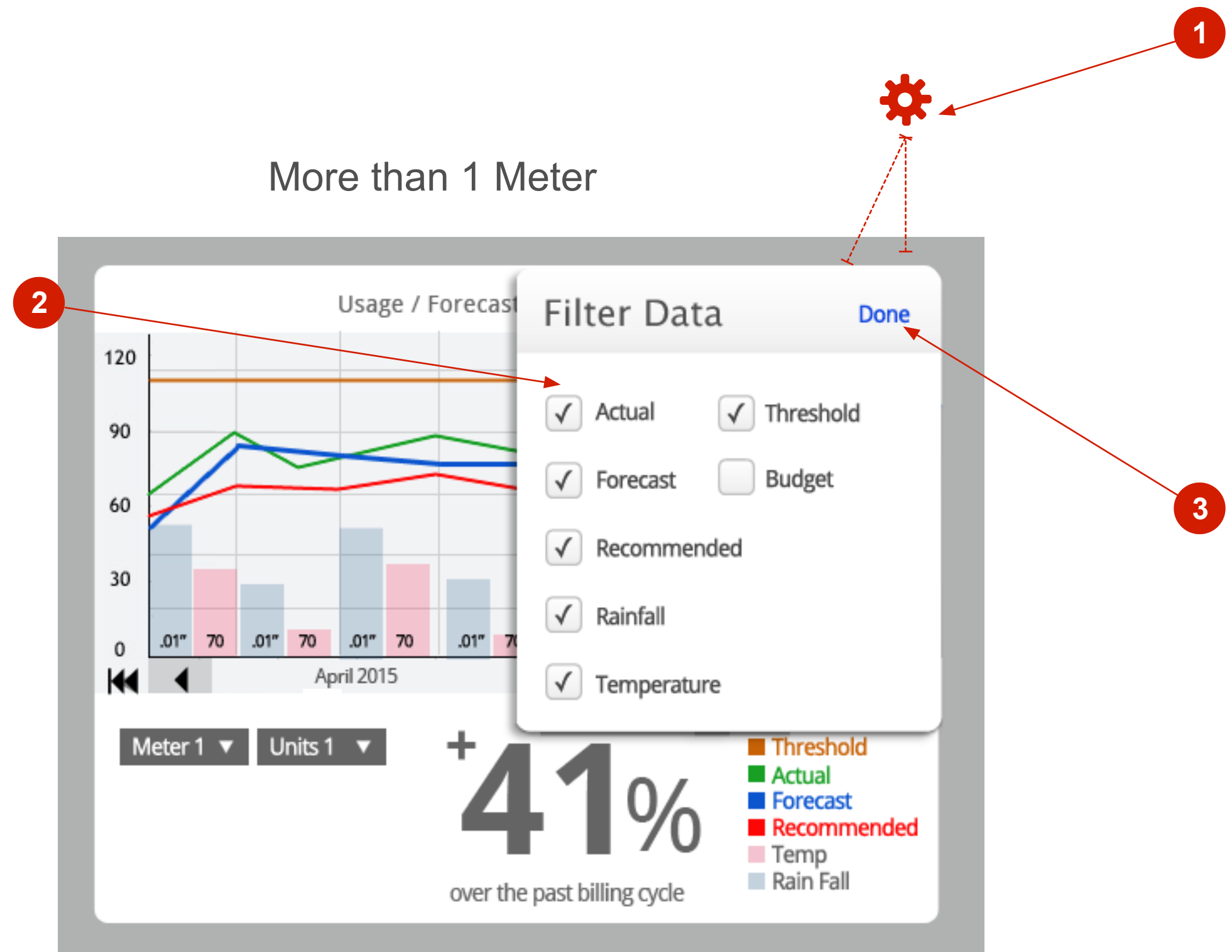
View Without Redlines



Detailed Annotations

Item	Interaction/Detail
1 Chart Lines	There are a possibility of as many as 4 Chart Lines. They may include Actual, Recommended (this comes from the Utility), Forecast, and Threshold. The user will set their own Thresholds (not on this widget). If the user sets no Threshold or the utility does not provide recommendation then those Lines is not shown. The lines are not interactive.
2 Weather Bar Chart	The weather for the 2 months 8 weeks (8 columns) that is visible on the widget at any given time is displayed as a Bar Chart. Each week (column) contains the precipitation and temperature with a clear label at the bottom of their respective bars.
3 Jump Back/Forward	At the far end of the Chart is a Double Arrow that allows the user to Jump Back in 6 month blocks. The Jump Forward arrow is only revealed when the user has 6 months in to which to Jump Forward.
4 Previous / Next Month	The Previous Month Arrow allows the user to step backward one month at a time as far back as the user has records. The Next Month Arrow can not advance the user past present +1 month.
5 Pull Downs	For customers with multiple meters the Meter Pull down is available. Changing the meter may potentially change some of the Chart Lines. The Units pull down will let the user choose how to display the data (e.g. metric the default is Gallons).
6 Filters Icon	The user can reduce the noise on the chart by hiding (filter out) some of the data. To get to the list of data items that can be hidden the user simply clicks the Filter Button.
7 Today Indicator	The Chart should have a marker that indicates where "Today" is on the continuum.
8 Legend	The Legend only represents the data that is actually being displayed.

WCP-170

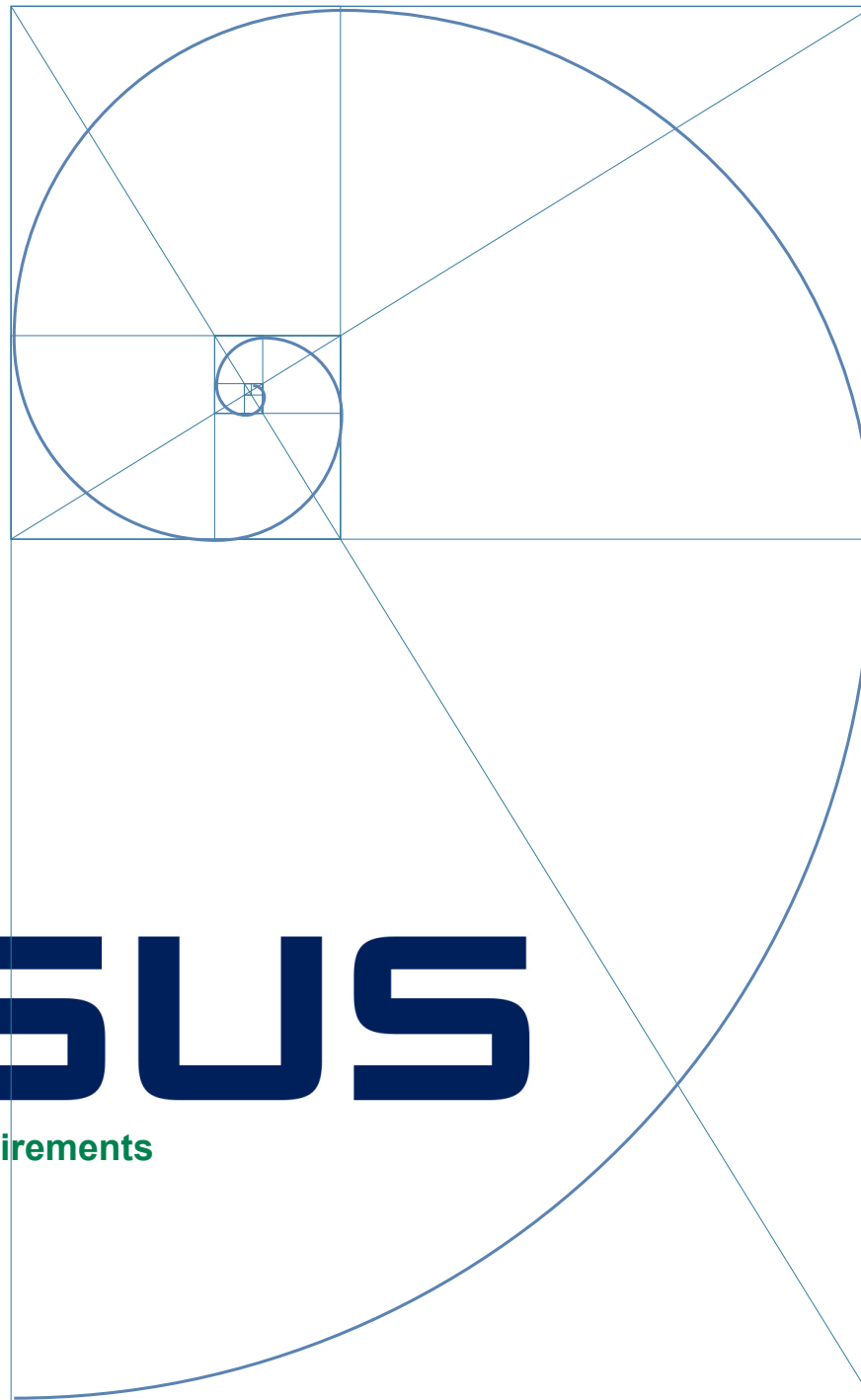


Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Launch Filter Dialog	
2	Filters	When the user clicks the Filter Button they are presented with a dialog box. The dialog box displays all of the possible data that the user can hide or reveal on the chart. The user makes their selections and dismisses the dialog. The Chart is updated to reflect the user's preference.
3	Done Button	To close the Filter Dialog the user clicks the Done Button.
4		
5		
6		

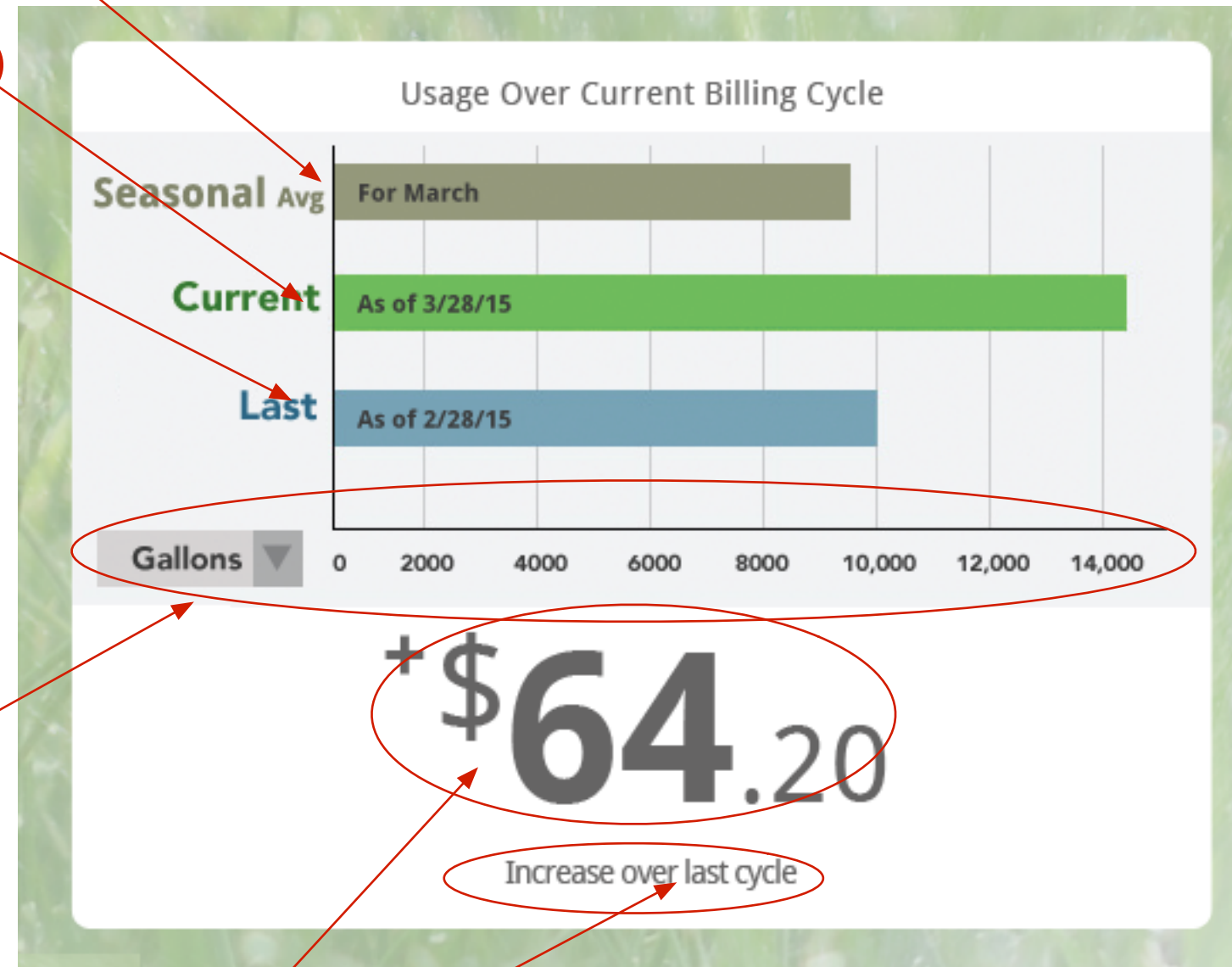
WCP-90



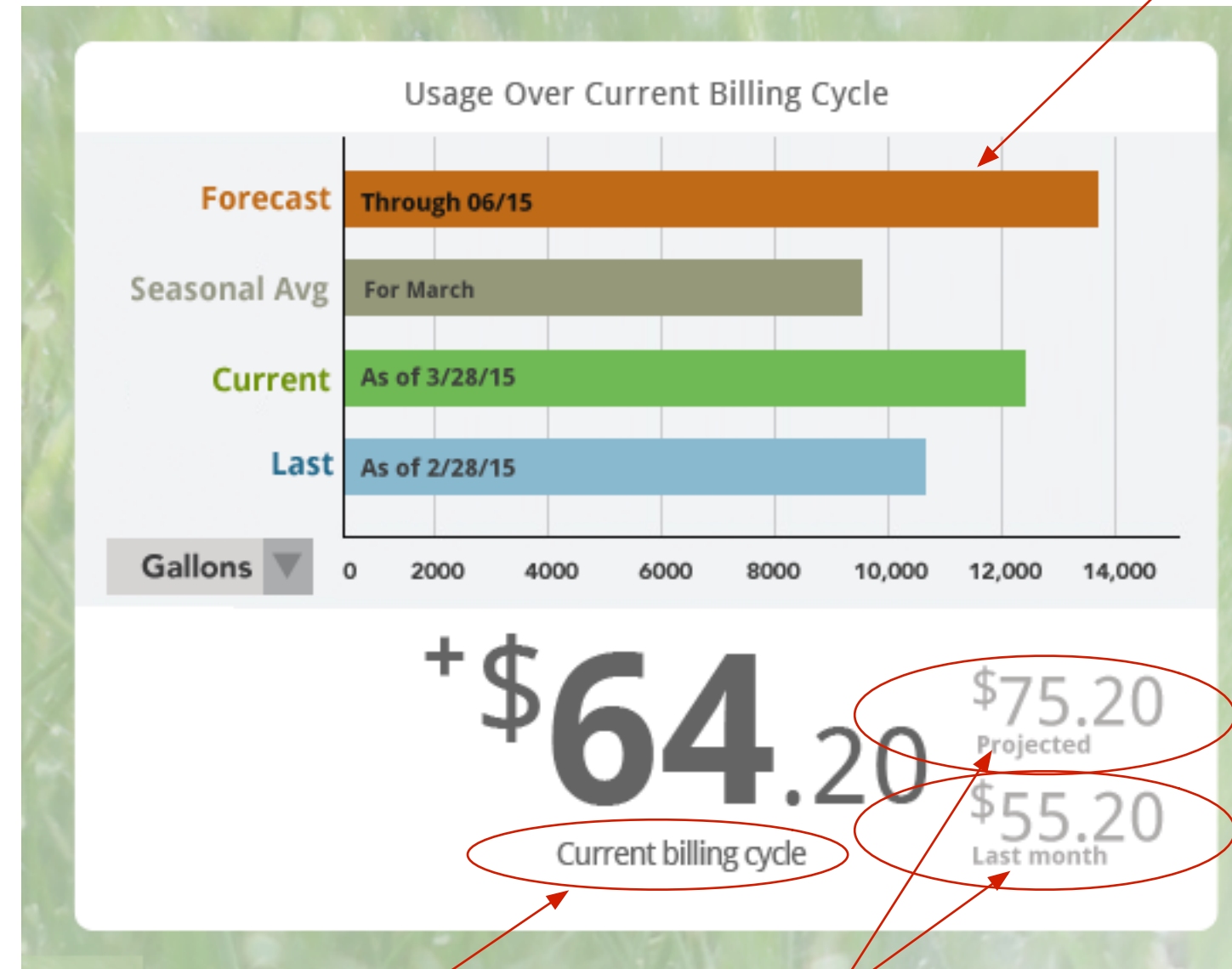
Widget Designs / Interactions and Requirements

WCP-90

Basic Dashboard Widget for Usage



Premium Dashboard Widget for Usage



Assumptions and Developer's Notes

Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Usage Seasonal Average Bar	The Seasonal Average Bar indicates the user's seasonal average for the current billing cycle (based on past billing cycle of the same time period). The Seasonal month being compared is indicated on the bar (e.g. March). If there are no previous records bar is not shown.
2	Usage Current Bar (as of)	The Current Usage Bar displays the usage "as of" a certain date. The date in question ("as of date" is indicated on the bar). This date should be the from the start of the current billing cycle.
3	Usage Last Bar (as of)	The Usage Last Bar shows the usage of the previous billing cycle. The as of date should be the start date of the previous billing cycle.
4	Units Pull Down	From the units pull down the user should be able to select the unit type in which the consumption data is shown (e.g. feet, gallons, Liters etc.)
5	Large Message	The Large message displays the "Dollar" amount. Increase or decrease (+ or - symbol used).
6	Small Contextual Message	This message is static text and indicates the context for the dollar amount. Text should read "Increase over last billing cycle"
7	Usage Forecast Bar	The Usage Forecast Bar indicates the potential increase decrease projection over the "As Through" time range. The time range is current billing cycle +30 (greater increments if possible).
8	Small Contextual Message	This message is static text and indicates the context for the dollar amount. The context is that of the "Current Billing" cycle from the indicated As of date on the Current Usage Bar.
9	Small Detail Message Projected/Last Month	The Projected detail message should show the dollar value based on the projected usage Forecast. The "Last Month" text indicates the dollar amount of the usage for the previous month

WCP-90

Premium Dashboard Widget for Usage Smart / Phone

Basic Dashboard Widget for Usage / Smart Phone

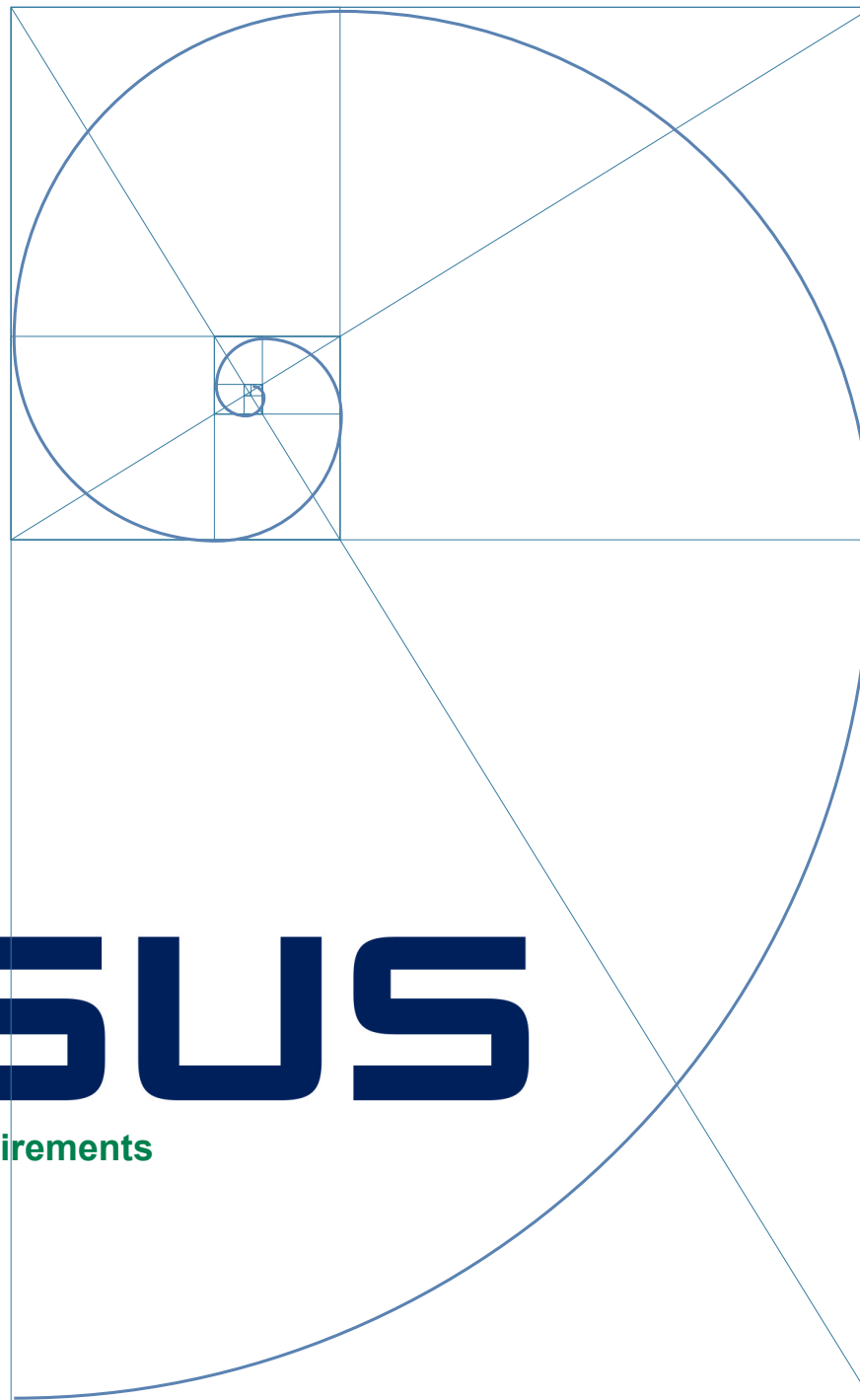


Assumptions and Developer's Notes

Detailed Annotations

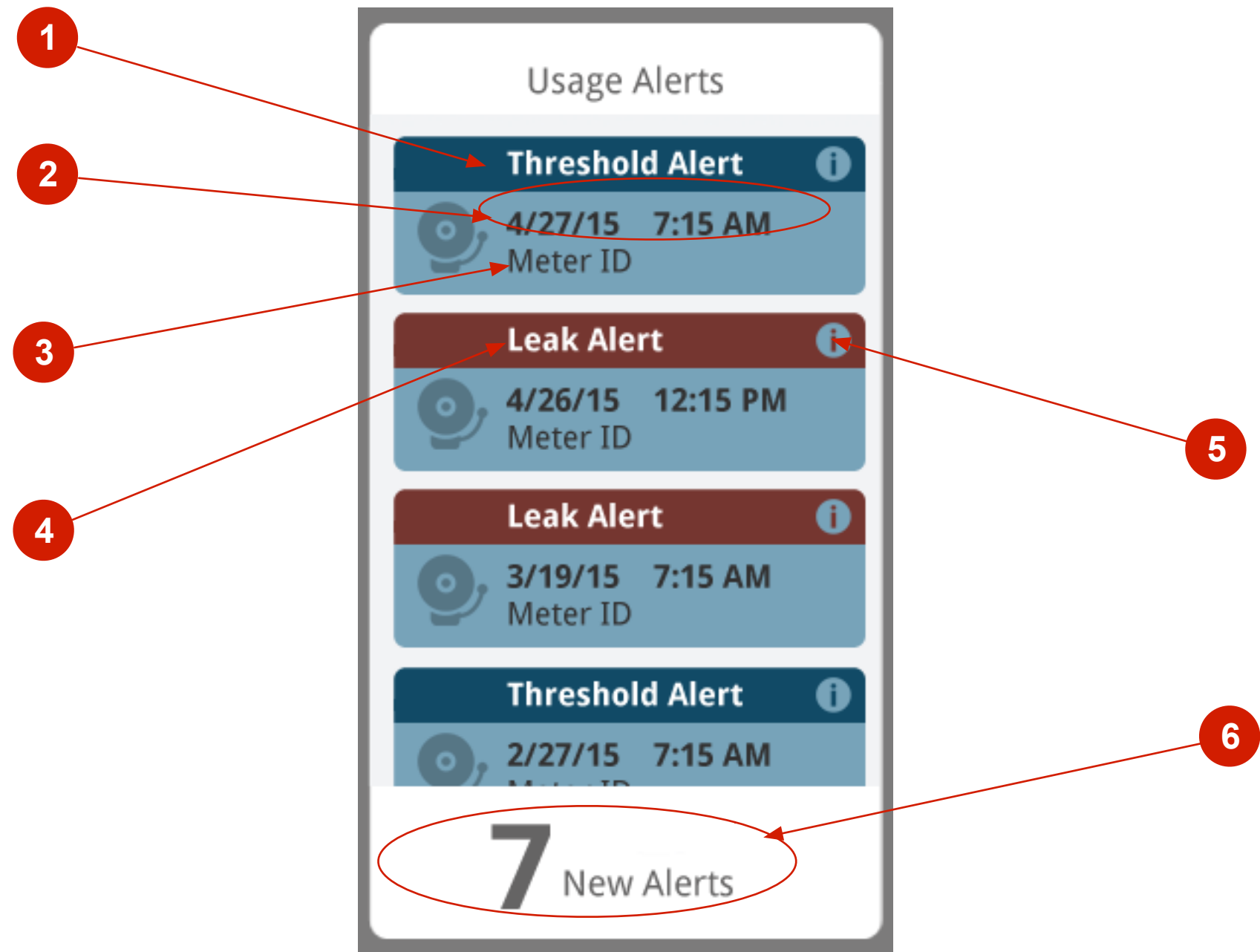
Item	Interaction/Detail	
1	Units Scale	Units scale is displayed vertically
2	Bars and Labels	Bars and Labels are displayed vertically with black text overlaying the bars.
3	As of Date	As of Date runs horizontally along the bottom of the chart. Each Bar has a relivant label
4	Large Text	Large Text displays the (+ -) dollar amount
5	Units Pull Down	The default unit is Gallons, however the user can use the pull down to change to an "available" unit of measurement.
6	Detail Text	The Detail Text features the Project spend and the last billing cycle spend (+ -)
7	Basic View	The basic widget view will not feature the Forecast Bar or the Detail Text.

WCP-87



Widget Designs / Interactions and Requirements

WCP-87



Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Alert Type Label	The Type of Alert that has been triggered is clearly indicated here at the top of the Object
2	Date / Time Stamp	The exact date and time of the Alert is listed here
3	Meter ID	The Meter ID number is listed here
4	Alert Type Visual Indicator	The different kinds of Alert Types are indicated by distinct colors (not to much of a separation)
5	Alert Details Icons	The Alert Details Icon indicates to the user that they can get more details. When the user clicks on the Alert Tile they are navigated to that Alerts Details
6	Activity Detail	The text shows the New Alerts that have been added

WCP-87

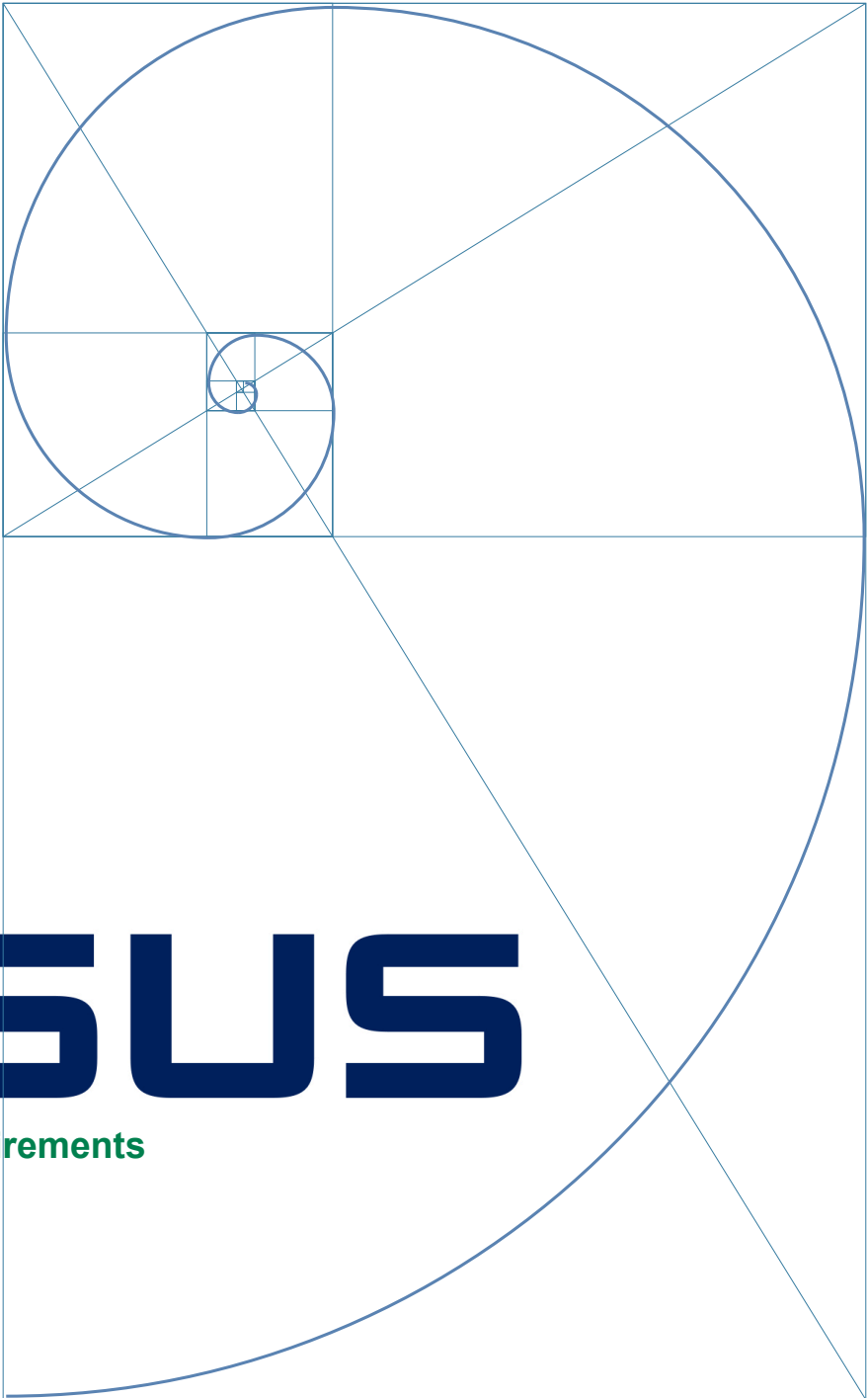


Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Done Navigation Button	The user will click/tap the Done button/link to return to the list of Alerts
2	In Focus Alert	At the top of the details page is the Alert that is in focus the Alert selected from the Alerts List (on the other side of the widget)
3	Alert Details	As of Date runs horizontally along the bottom of the chart. Each Bar has a relivant label
4	Observers Info	This is a list of Observers that have been assigned to receive an e-mail if an Alert is registered. The user can Not edit the list here
5	Dismiss Alert Action	The user can Dismiss this Alert by clicking the check box for Acknowledge. When the user clicks the Done button this Acknowledged Alert will not be returned to the Alerts list.

WCP-166



SENSUS

Widget Designs / Interactions and Requirements

WCP-166

Set Threshold Alerts
Alerts Recipients
Manage Notifications

To Set A Custom Threshold Select from One of the Three Tables

Select Meter

Per Billing Cycle (Threshold Alert Notify if consumption exceeds)

Device ID	Consumption This Time Last Year	Alert if Consumption Exceeds
All Meters	5,123 Gallons	<input style="width: 100px;" type="text" value="6,000"/> Gallons

Daily (Threshold Alert Notify if consumption exceeds)

Device ID	Daily Consumption This Time Last Year	Alert if Daily Consumption Exceeds
All Meters	125 Gallons	<input style="width: 100px;" type="text" value="300"/> Gallons

Vacation (Threshold Alert)

Set Vacation Dates	Start	End	Gallons per Day
Use Calendars to Set Range			<input style="width: 100px;" type="text"/> Gallons

Assumptions and Developer's Notes

	Item	Interaction/Detail
1	Page Tabs	To keep as much noise off the page as possible the operations have been split into two parts (Setting and Assigning). One page is all your operations around setting up and working with Thresholds the other page the same but for Notification Recipients
2	Per Billing Cycle Table	This table has four columns in which the context of what your (the user's) Threshold should/can be based on. Without this context the user has no idea what the Baseline for the Threshold is that they are being asked to manage. If there is no data on the user's past 12+ months then the data should be based on the Last Billing Cycle and the Forecast on that.
3	User Input	User Input Areas are always visually indicated in some way. In this case light yellow background. This helps the user focus on the areas of the table where he needs (can actually) put in or select a value
4	Daily Threshold	This table is also based on "Same Time Last Year". Month is the current month. The days are aggregate of the Month (Same Time Last Year Month). The user can input a % for each day of the week. This applies to the entire month. This repeats for the following month(s) unless the user specifically manages it otherwise .
5	Vacation	The user can set a Threshold % for a block of time using the Vacation Mode Table. This table shows no context but it allows the user to enter a start and end date via calendar for large blocks of time.

WCP-166

Set Threshold Alerts
Alerts Recipients
Set Up Guest Account
Manage Notifications

Notify (Notify if there is an Alert)

Type of Threshold Alert	Name	Email	Text	Phone	
All Types	<input type="text"/>	<input checked="" type="checkbox"/> <input type="text"/>	<input type="checkbox"/> <input type="text"/>	<input type="text"/>	+ Add Recipient
Leak Alerts	John Smith O'Niel	<input checked="" type="checkbox"/> JSN@GoFastTeam	<input type="checkbox"/> <input type="text"/>	<input type="text"/>	Delete

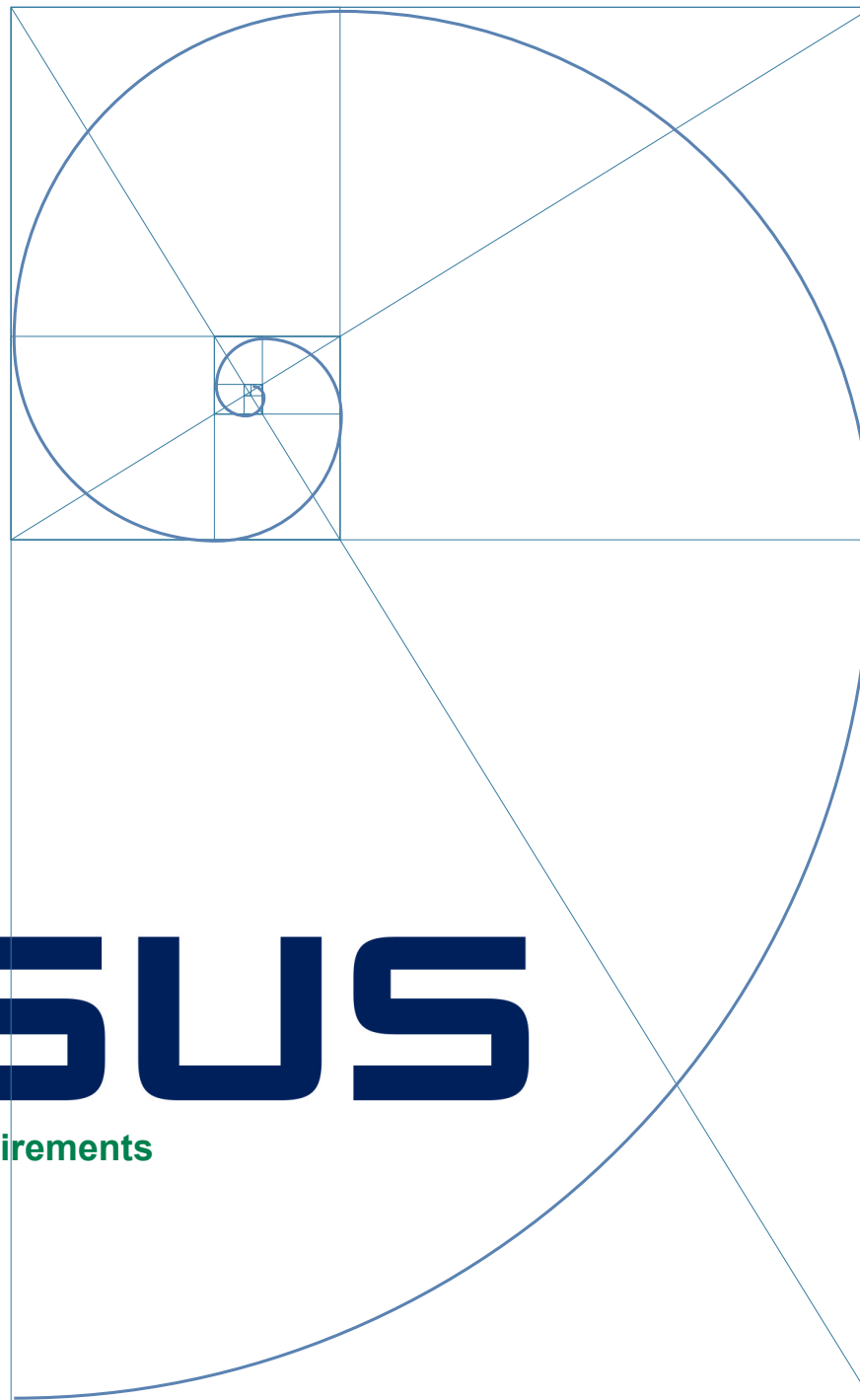
Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Meters Drop Down	Only Users with Multiple Meters will see this pull down. The user will click/tap the Meters Pulldown to select a Specific Meter in which to assign an observer(s). The default for the Pulldown is All Meters.
2	Alert Types Drop Down	The user can choose the Type of alert he wants to assign to an Observer via the pull down. The Default is All alerts.
3	Inputs	The user will use the Yellow Row to Input information (Name and Phone) about an Observer and the method for notifying them. Email is Default but the user can select Text as well or one or the other. Either email or Text is always selected (at least one must be selected)
4	Add Recipient / Observer	The user can add observers by clicking the Add Recipient button. The current Yellow in Focus row must have either a Text or an Email field completed to Enable the Add Button.

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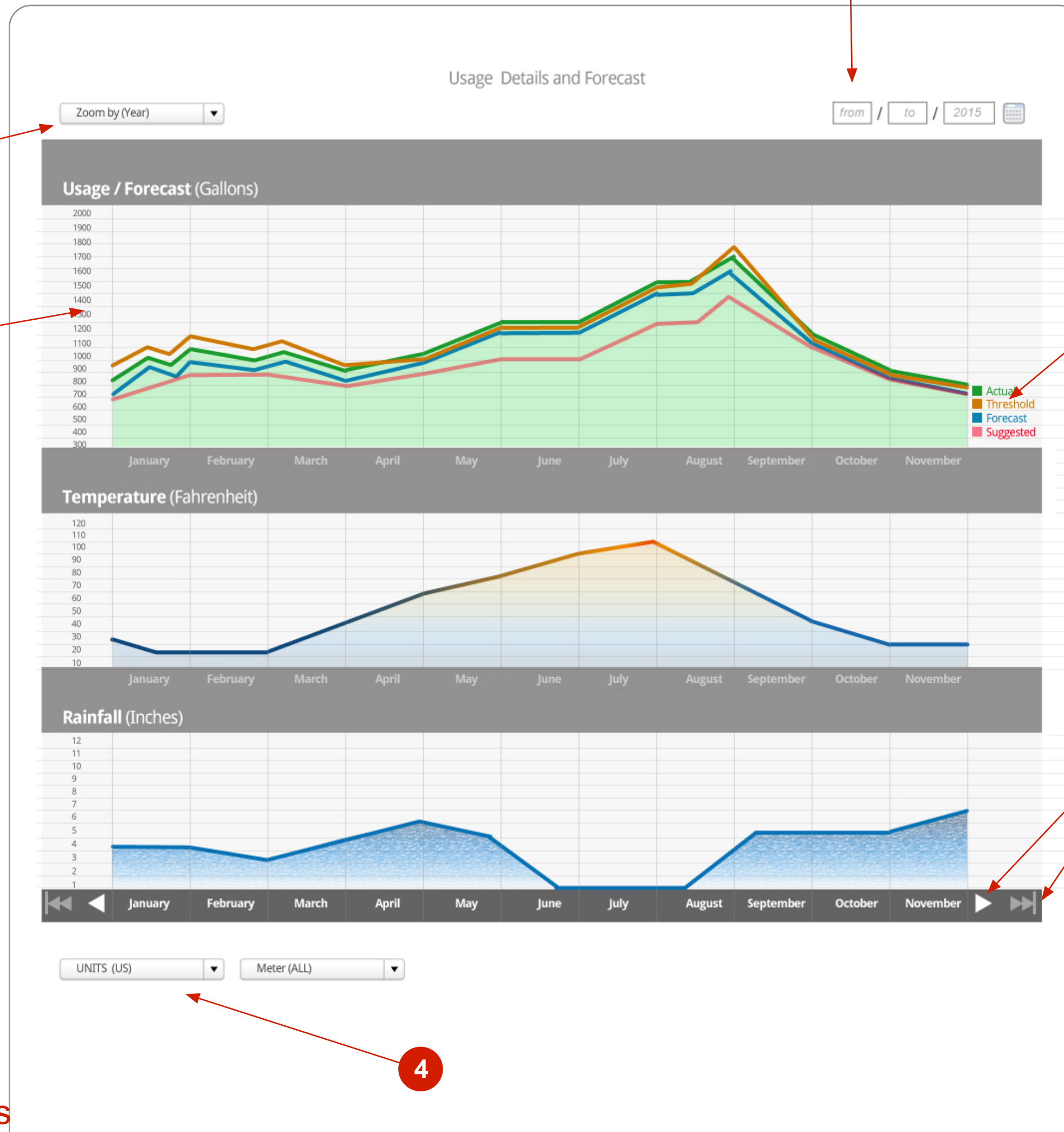
WCP-



SENSUS

Widget Designs / Interactions and Requirements

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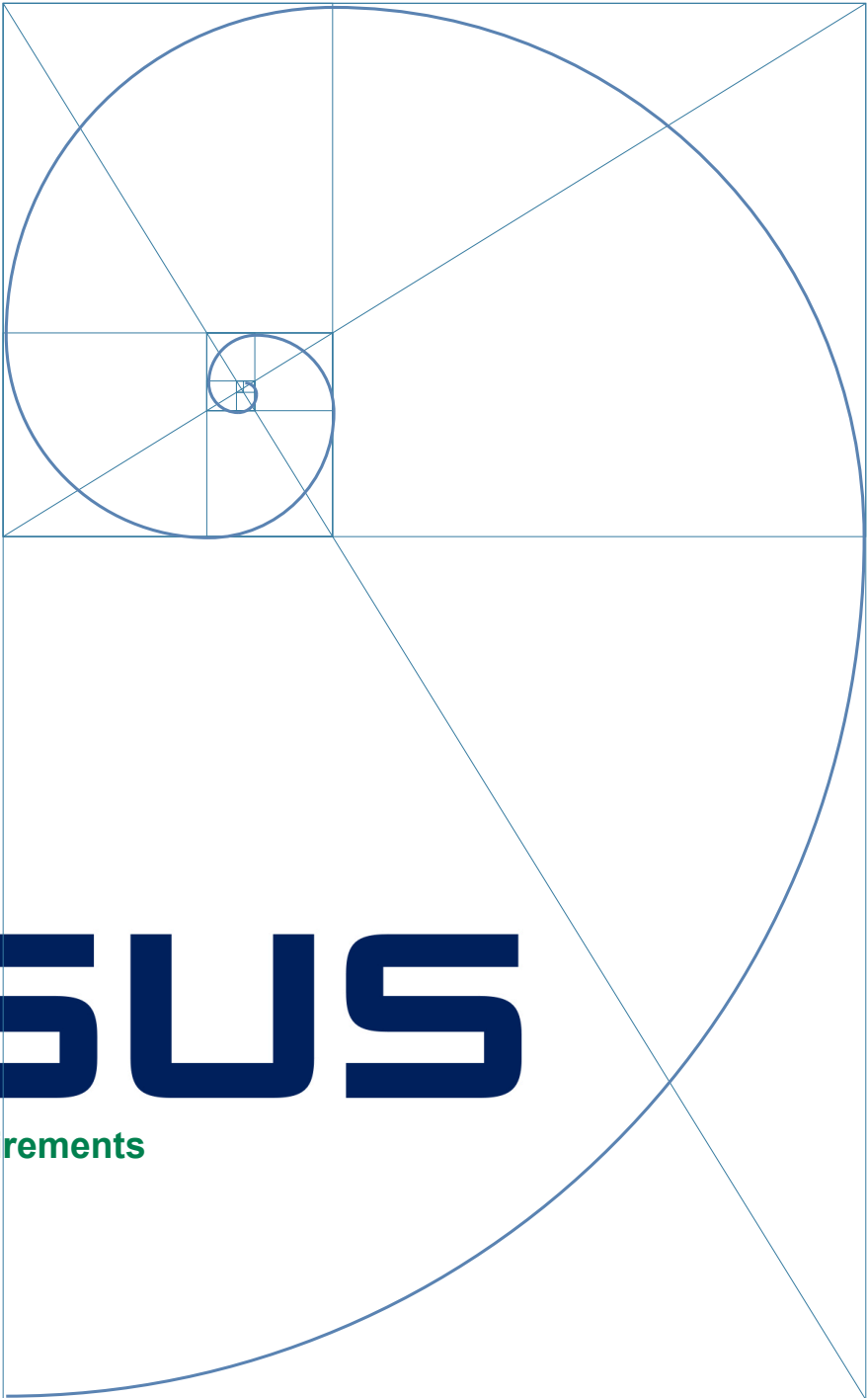
Assumptions and Developer's Notes

Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Zoom Function	Only Users with Multiple Meters will see this pull down. The user will click/tap the Meters Pulldown to select a Specific Meter in which to assign an observer(s). The default for the Pulldown is All Meters.
2	Units Axisis	The user can choose the Type of alert he wants to assign to an Observer via the pull down. The Default is All alerts.
3	Legends	The user will use the Yellow Row to Input information (Name and Phone) about an Observer and the method for notifying them. Email is Default but the user can select Text as well or one or the other. Either email or Text is always selected (at least one must be selected)
4	Navigation	The user can add observers by clicking the Add Recipient button. The current Yellow in Focus row must be have either a Text or an Email field completed to Enable the Add Button.
5	Pull Downs	

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SENSUS

Widget Designs / Interactions and Requirements

WCP-124

Set Threshold Alerts
Alerts Recipients
Set Up Guest Account
Manage Notifications

This Utility will send you, the account holder, notifications via the following methods. The information used below is derived from your billing account information. [Manage your account info.](#)

Notification Method Notify if there is an Alert using the following method(s)

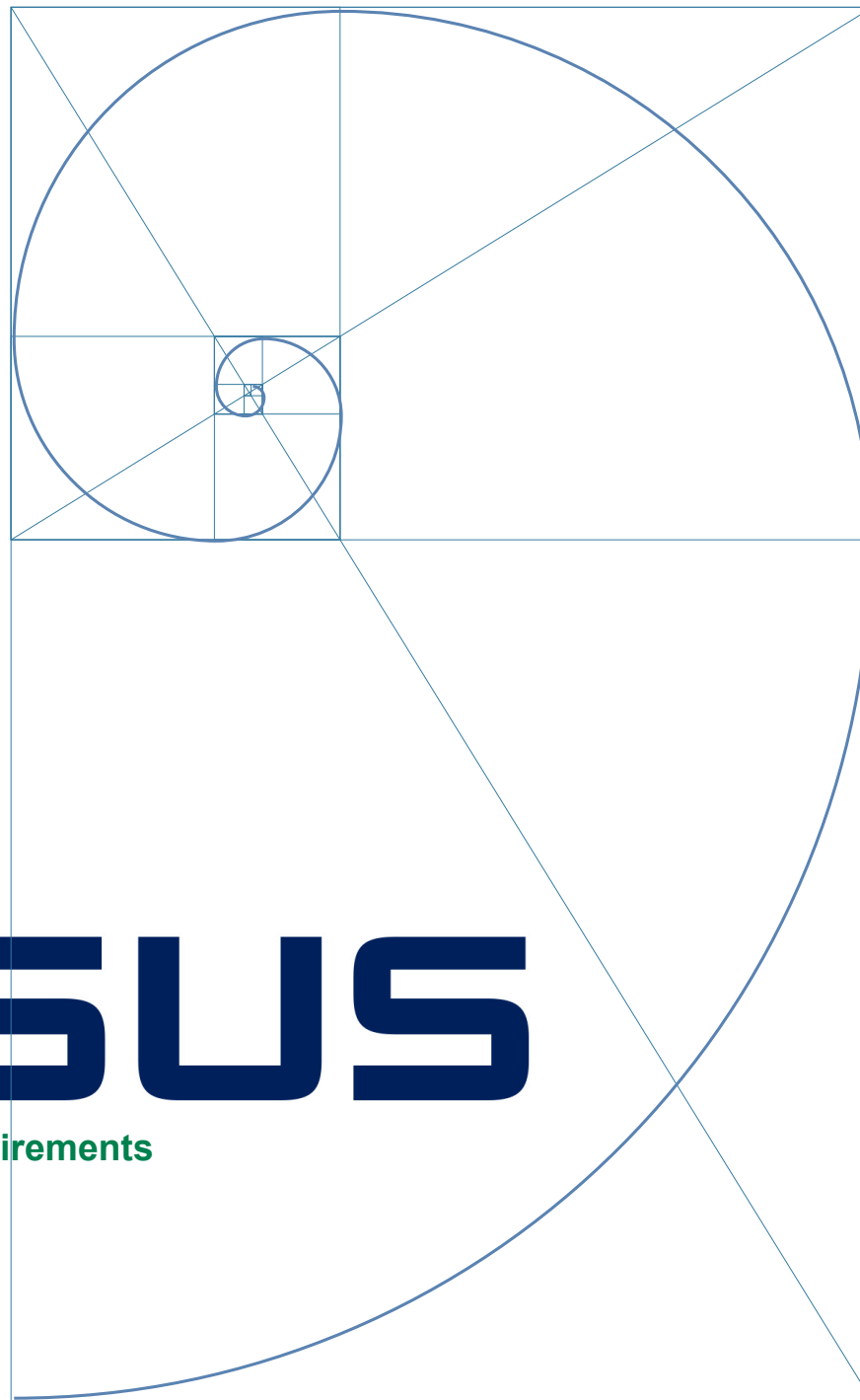
Type of Threshold Alert	Email	Text
Threshold	<input checked="" type="checkbox"/> ON JSN@GoFastTeam	<input type="checkbox"/> OFF 603-555-12345
Leak	<input checked="" type="checkbox"/> ON JSN@GoFastTeam	<input type="checkbox"/> OFF 603-555-12345

Assumptions and Developer's Notes

Detailed Annotations

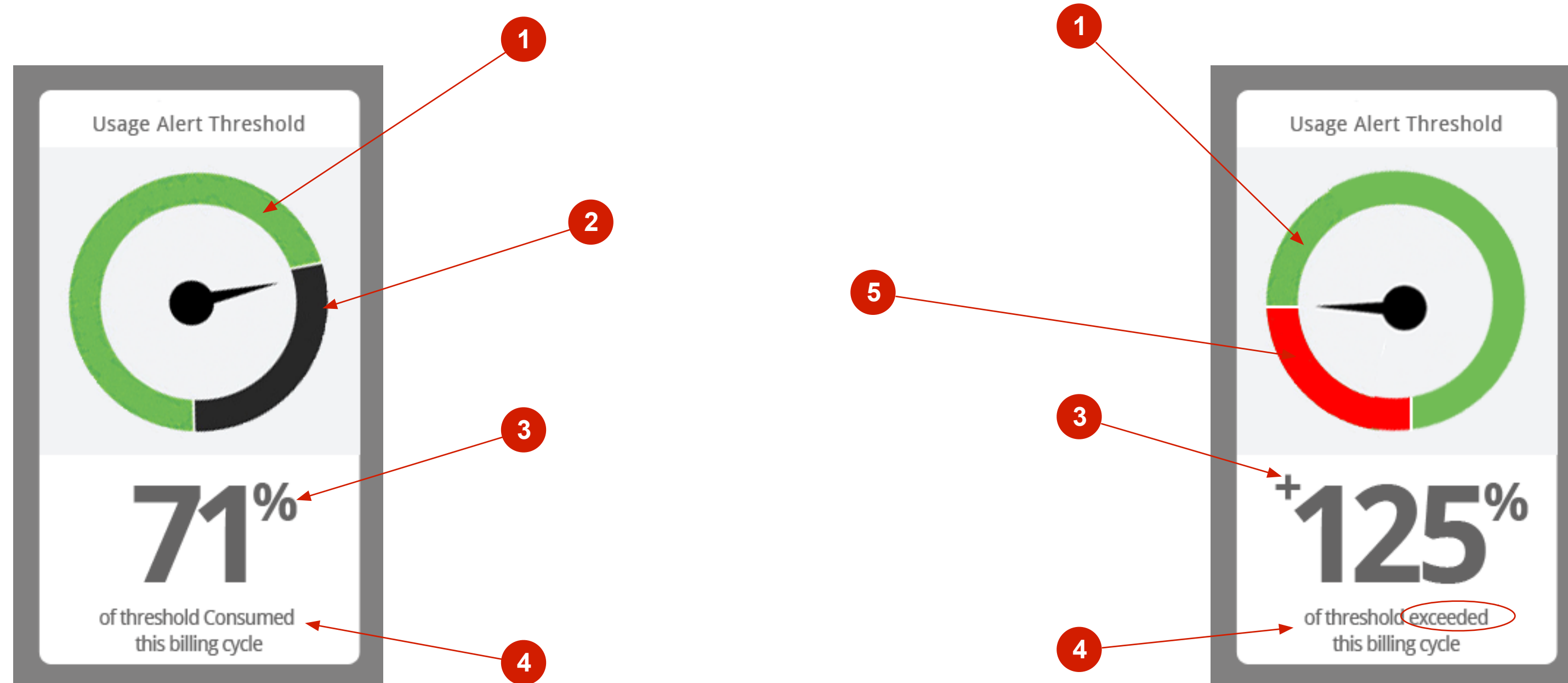
	Item	Interaction/Detail
1	Tab for Manage Notifications	The user can access "Notification" controls from this tab.
2	Control Table	This table holds the data and the switches to manage the notifications.
3	Threshold Type	The first column of the Control Table is the Alert "Type". Alert types may be added by the Utility. Some Alert types may not be managed by the end user. The Utility will make this determination.
4	Switches	Switches are Binary. By default the Email switch is set to ON. By default the Text switch is set to OFF. To set a switch to ON the Input Field must be populated with the correct "pattern". These fields should be Auto-populated from the user's billing info. The user can not edit the info in the Input Field as it is coming from a central source of truth (the user's Billing Info).
5	Input Field	Each Switch has a corresponding Input Field. Input Fields are by default non-editable.

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Widget Designs / Interactions and Requirements

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Assumptions and Developer's Notes

Detailed Annotations

	Item	Interaction/Detail
1	Consumption Indicator	This part of the pie chart indicates the relative amount of consumption for the current Billing Cycle
2	100% Total Indicator	This part of the pie chart indicates the 100% (or Full) visualization of the Threshold that is in place as per the user's setting. If the user has not set anything then it is in relation to the Utility recommendation.
3	% Indicator	The Large Number corresponds to the Consumption Indicator. It provides a relative % of the current consumption to threshold percentage.
4	Contextual Message	This message is binary indicating as the operative word "Consumed" or "Exceeded"
5	Threshold Exceeded Indicator	This red slice of the pie chart indicates the relative amount over the threshold the consumption is.
6	No Multiple Meters Pulldown	This widget shows the aggregate of all Meters so there is not a pull down for multiple meter accounts

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Assumptions and Developer's Notes

States of a Threshold being Exceeded

