flowview

FlowView[®] is a web application that puts flow monitor, level monitor, and rainfall monitor data at your fingertips to support management, engineering, and operational decisions within your wastewater collection system. FlowView connects clients to an ADS[®] monitoring network, delivering near real-time operational intelligence on the status of the wastewater collection system. It is the fastest and easiest way to visualize the condition of your collection system monitored by ADS sensing technology. This state-of-the-art system provides knowledge and early detection of potential problems. It offers dynamic analytical functions for fueling discoveries that will lead to enhanced management of the sewer collection system. FlowView performs data retrieval, storage, alarm management, and information presentation functions.

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Icon Tabs



The **Icon** tabs can be seen in the top right corner of the FlowView interface, regardless of which page is open. The Icon tabs include the **Contact Us**, **Notifications**, **Alarms**, and **User** icons, shown in order above.

Clicking the Contact Us icon will open the Contact Us page, where all of the methods for contacting ADS are displayed.

If Notifications or Alarms occur while the user is in FlowView, the Notifications or Alarms icons will display the number of new events in that category. Clicking the icons will display the recent events.

Clicking the User tab allows the user to navigate to **Account** or **Preferences** settings, or Log off of FlowView. Account information includes User and Contact information and Account information (such as user name and password). Users can add or change this information from this screen. The Preferences information allows the user to set email notification preferences and location preferences, including the option to display inactive locations.

Dashboard

The **Dashboard** is the main screen for FlowView. It consists of the **Map** and the **Alarms**, **Battery Status**, **Collect Status**, and **Notifications** tools, detailed below.

Мар



The **Map**, shown above, is located at the top of the Dashboard and displays a map view of monitor and/or rain gauge locations for the project. Each location is represented by a color-coded location marker that indicates the current alarm status. An information pane is included to the right side of the map, with further options for locations, map options, and rain reports.

Map Display

Within the map display itself, users have the capability to change the view of the display, navigate between saved map views, select individual locations for further information on the installation at that location, and employ the use of the map tools.

Changing the View of the Display

Мар	Ŧ
Satellite	
Мар	
White Style	
Dark Style	
Terrain	

A drop-down menu in the top left of the Map feature allows the user to change the view of the display. Users can toggle between map or satellite view, white or dark style, and whether or not to include terrain on the display.

Navigating Between Saved Map Views

A drop-down menu in the top right of the Map feature allows the user to navigate between saved map views. Map views can be saved using the map tools, discussed in the *Using the Map Tool* section below.

Selecting Individual Locations for Further Information

	SB16				×
	General	Collection	Alarms	Installation	Data
	Series / Serial Nu	m TRITON+	/ 50117		
or	Is Active	Yes			
	Description	2			
1	Manhole Address	e =			
1	Coordinates	34.76781	153,-86.581878	66 CHANGE	POSITION

Clicking on an individual location marker from the map or the location listing highlights the marker and allows the user to view the **Location Inset** which gives further information for the installation(s) at that location through the **General**, **Collection**, **Alarms**, **Installation**, and **Data** tabs. The color of the header bar indicates the alarm status of the location.

The **General** tab provides: the equipment series and serial number; whether or not the unit is active; a description; the closest available address to where the manhole is located; and the geographical coordinates of the location.

The **Collection** tab provides: the connection type; the IP address; the next scheduled collect time; the time between collects; the status of whether or not a collect is in progress. The **Collection** tab also has a **Collect** button to manually initialize a collect.

General	Collection	Alarms	Installation	Data
Туре		тс	PIP	
Address		16	6.219.171.191	
Next Collect Tim	e	03	/07/2017 18:00	
Time Between C	ollects	1 0	Jay	
In Progress		No		

The **Alarms** tab displays a table showing up to four (4) active alarms. The following is included in the table: the capability for the user to manually acknowledge or clear alarms; a color-coded indicator of the alarm status; the event type that triggered the alarm; the time stamp of the alarm; and a description of the alarm and status. This tab also includes a *View alarm log* link that will allow the user to open and view the Alarm Log for a complete listing of alarms.

General	Collectior	Alarms	Installation	Data
Action	Event Type	Date/Time	Description	
× •	Dry Overflow	07/15/2016 09:15	Dry Overflow deter	cted.
Showing	1 of 1			
		View alarm log		
Showing :	1 of 1	View alarm log		

The **Installation** tab displays the following information regarding the installation: the installation type; the installation shape; the nominal diameter; and the assigned rain gauge, if applicable.

General Collection Alarm		Alarms	Installation	Data	
Installation Typ	e	ł	Pipe		
Installation Shape			Pipe Round		
Nominal Diameter			15.98 in		
Assigned Rain Gauge			RA3_9001_NEW		

The **Data** tab provides the following data: the last stored applicable reading of UNIDEPTH, Velocity, QContinuity, and *Rain* entities, as well as the time stamped range that the entity data exists between. Users also have the capability of loading graphical displays of the data using the *Generate graph* icon. It will open a hydrograph of the last seven (7) days of data, including the current day. Once opened, the user can also select a scattergraph view of the data. The hydrograph shows UNIDEPTH, Vel (Velocity), and QContinuity data over the current week. Users can move their cursor over the data to view data values over the length of time. Users can also adjust the date/time range over which they are viewing the data by adjusting the end bars of the lower graph to the left or right. Users

can then scroll through the data in that zoomed view. The scattergraph shows the UNIDEPTH and Velocity data, with the min/max values for depth on the y-axis, and velocity on the x-axis. Users can move their cursor over individual points to view the specific values. Clicking the **X** in the top right corner will close the graphs and return the user to the **Data** tab.

General	Collection	Alarm	S	Installation	Data	
Unidepth	5.6	67 in	03/07/	2017 12:55		
Velocity	1.9	94 ft/s	03/07/	2017 12:55		
Q Continuity	0.5	574 MGD	03/07/	2017 12:55		
Rain	0 i	n	03/07/	2017 12:10		
Entity Data Exists	Between		08/11/	2014 16:42 - 03/0	07/2017 12:55	





Clustered Locations



If a number is inscribed within a location marker, this indicates a **Cluster** location. Clicking a **Cluster** location will open a **Cluster Location Inset**, which will show each of the locations included in the cluster and allow the user to select an individual location to view or initiate a collect for all locations within the cluster.

Using the Map Tools

The available map tool buttons are located on the right side of the map display. These tools include: **Recenter**, **Draw**, **Save View**, **Legend**, and **Zoom Fit** and the other map sizing tools.

Clicking the **Recenter** button allows the user to recenter the map based on the current selected view at the current zoom level.





-

LOCATIONS WITHIN SHAPE		×
	CREATE GROUP	COLLECT
C Echo_1104M		
Cho_SB15_9105		
Echo_SB16_9101		
SB15		
O 5816		
Test_SFTriton_1104M		

Clicking the **Save View** button will allow the user to save the current map view for convenience and ease of use. The user can input a **View Name** and **View Description**, as well as see the coordinates of the center of the view and the level of zoom. If a **Map View** is added, it will be available for selection in the Map View drop-down menu in the top right of the map display.

Clicking the **Legend** button opens the map legend, which displays the meaning of each color-coded location marker that may be present in the map display. Clicking the **Legend** tool again will close the tool.



Location Type	Description		
Normal	A normal, active location without any current alarms or collects.		
Manual Collect	A location that is currently undergoing a manual data collect.		
Alarming	A location that has an active, unacknowledged alarm.		
Acknowledged	A location that has an active, acknowledged alarm.		
Inactive	An inactive location.		
Composite	Locations that have a "+" inscribed within the location marker signify that this is a composite		
	location.		
Invalid Locations that have a "!" inscribed within the location marker signify that there are			
Coordinates coordinates for this location. Users with the proper permissions can drag and drop			
	locations onto the map to provide the proper coordinates, or move locations already on the		
	map to the correct coordinates.		

Clicking the **Zoom Fit** button will zoom to the central view to display all project locations.

Further zooming and display tools are located at the bottom right of the map display.

* *	X
* +	4
+	清
	+
-	_

The **Resize Map** tool will allow the user to make the map display full screen. The button with the yellow Pegman icon will allow the user to drag the icon over a portion of the map and opening the street view. The **Plus** and **Minus** buttons allow the user to increase or decrease the zoom level.

Map Information Pane

The **Map Information Pane** is located to the right of the Map Display and consists of the **Locations**, **Map Options**, and **Rain Reports** tabs.

<u>Locations</u>

The **Locations** tab provides search functionality for viewing information for specific locations. The *Search* field can be used to search for a location by its name or scroll through the alphabetized list of locations. The user can also narrow search parameters by selecting options from the **Installation Types** or **Locations Group** drop-down menus. Clicking a location in the list will bring up its **Location Inset** information in the Map Display.

<u>Map Options</u>

The **Map Options** tab allows the user to toggle effects or settings that will change how the Map Display is presented.

Layers

Users can select pre-defined Layers to display further information to the map. Layers allow the addition of map overlays, which can be used to highlight areas of interest on the map. For example, a layer can be created to show city or county boundaries or sewer lines.

Locati	ions	Map Options	Rain Reports
Q Sea	irch		
All In:	stallatio	n Types	~
All Lo	cations	Group	~
0	BC10		^
0	Dynamic	_50499	
0	Dynamic	_50499(2)	
0	ECHO_00	006	
0	Echo_11	04M	
0	ECHO_91	.07	
0	Echo_91	10	
0	Echo_91	15	
0	Echo_91	21	
	Echo_91	31	~

Note that not all projects will have layers. The layers are generated from files provided by the customer, specific for the project view. The layers must be added by an ADS administrator.

Settings

The **Settings** section allows users to control whether or not *Location Name Labels* are viewed on the Map Display and at what level of zoom these labels are shown. Users can also toggle whether or not locations that are located in similar geographical areas are shown as clustered locations at certain levels of zoom. Cluster locations are displayed in the same manner as other locations, but show a number in the location marker that signifies the number of locations that are in included in the cluster location.

<u>Rain Reports</u>

The **Rain Reports** tab allows users to quickly generate either a **Cumulative Rain Map** or a **Rainfall Frequency Map** for any or all of the rain gauge locations within the current project. Clicking the **Generate Report** button will open the respective window where any or all rain gauge locations can be included, as well as a Date/Time over which to view rain data. After generating a report, clicking the **Edit Report** button will reopen the **Generate Report** window and allows the user to edit the report parameters. Clicking **Clear Report** will close the current report and return to the default map view.

Cumulative Rain Maps display system-wide rain totals for a selected rain event on the map.



Rainfall Frequency Maps evaluate data to determine the storm return frequency of a storm event and provide the results graphically on the map. Clicking the **Load Storms** button will prompt FlowView to evaluate the rain data for the selected rain gauges and timespan and provide a list of qualifying storm events in the drop-down list. Users can then select the storm they wish to review from the list and generate the report. Note that a geographic Rain Frequency table must be uploaded for the project by an ADS administrator prior to the generation of Rain Reports. The data is also presented as a tabular report, located below the map.



🛃 Download 👻													- DATA TABLE
Q Search													
Location	Start Date	End Date	Hours	Minutes	Total Rain (in)	Average Intensity (in/hr)	2 Year (in/hr)	5 Year (in/hr)	10 Year (in/hr)	25 Year (in/hr)	50 Year (in/hr)	100 Year (in/hr)	Return Frequency
RA3_9001_NEW	02/28/2017 09:05	02/28/2017 15:45	6:40	400	1.63	0.24	0.19	0.28	0.33	0.39	0.46	0.51	2yr to 5yr

Alarms Tool

Ala	arms				
			All Locatio	ons Group	~
Action	Status 🛦	Event Type	Date/Time	Location	Graph
*		SB10 Below Minimum Threshold (4 MGD)	02/15/2017 17:50	SB10	
*		Dry Overflow	02/15/2017 11:25	FST-IM_50172(2)	
*		Dry Overflow	02/15/2017 11:25	FST-IM_50172	
*		High Level	02/15/2017 11:25	FST-IM_50172	
*		Dry Overflow	02/15/2017 05:35	IC01	
*		Dry Overflow	02/14/2017 07:35	SB10	
*		High Level	02/14/2017 07:35	SB10	
*		Dry Overflow	02/14/2017 07:35	IC01	
*		Dry Overflow	02/13/2017 17:00	IC01	
*		Dry Overflow	02/13/2017 07:40	IC01	
			View all		

The **Alarms** tool of the Dashboard displays a table of the ten (10) most recent alarms in the project. The **Locations Group** drop-down menu allows the list to be narrowed by specific **Location Groups**. The user has the option to view all Active alarms in the system by selecting the *View All* link at the bottom of the Alarms dashboard tool and viewing the **Alarm Logs** page.

The Alarms tool on the Dashboard displays the following columns: Action, Status, Event Type, Date/Time, Location, and Graph. The table can be sorted using the Status, Event Type, Date/Time, and Location. Clicking a sortable heading three times will return the table to the default sorting method.

<u>Action</u>

The Action column of the table allows the user to manually take action to acknowledge or clear an alarm.

<u>Status</u>

The **Status** column displays a color-coded bell that corresponds to the current status of the alarm. A red bell signifies that there is an active, unacknowledged alarm, while a yellow bell signifies that the alarm has been acknowledged, but is still in the active state.

<u>Event Type</u>

The **Event Type** column displays the type of event that triggered the current alarm.

<u>Date/Time</u>

The **Date/Time** column displays the time stamp of when the alarm was triggered.

<u>Location</u>

The **Location** column displays the location name where the alarm was triggered. Clicking the location name will navigate away from the Dashboard to the Locations screen, and display all available information for that particular location.

<u>Graph</u>

The **Graph** column consists of the *Graph* buttons that open a graph containing seven days of data, with the graph centered on the date/time of the alarm. This will open a hydrograph display, showing UNIDEPTH, Velocity, and QContinuity, with markers of where alarm thresholds were crossed. The user can move their cursor along the data to view the specific date/time and data values. Users can also adjust the date/time range over which they are viewing the data by clicking and dragging the highlighted region at the bottom of the graph to the left or right, or can narrow the view to one day of data by clicking **1d**.



The left side of the Graph display shows the pipe size and shape, the time period of the data displayed, and a legend.

Battery Status Tool



The **Battery Status** tool of the dashboard displays the collective battery status of the entire project. The pie chart can display up to three colors, representing the current status of the batteries. Green signifies that the battery voltages are greater than 1V above the battery alarm threshold for that monitor model, yellow signifies the voltages are less than 1V above the above the battery alarm threshold, and red signifies that the battery voltage is at or below the battery alarm threshold be replaced.

The table to the right side of the Battery Status tool shows the voltages of monitors in the low or critical state. The list is sorted such that those monitors with battery voltages in the critical (red) state appear at the top of the list, followed by those in the low (yellow) state. The most recent battery voltage available in the database is displayed next to the location name. If all locations on the project have battery voltages in the acceptable (green) state, no locations will appear in the list. Clicking *View all* under the table will open the **Battery Status** Report page to provide further information.

Collect Status Tool



The **Collect Status** tool displays a bar graph and table representing the communication success rate. The only locations displayed in the table are those which have not collected in the past 48 hours. Users can also initiate a collect on the locations in the table by using the **Collect** button.

The bars in the graph are color coded, depending on the success rate of the daily collect status measured for the entire group (selected from the drop down menu at the top right of the tool). If the success rate is between 90-100% the bar is green, if it is between 80-90% the bar is yellow, and if it is below 80% the bar is red. At least one successful collect (either system initiated or through data delivery) is required to count as a success for a day.

The table shows the collect status for each individual location within the selected location group, and contains the Location, Last Collected, and Success Rate columns.

The **Location** column displays the location name and allows users to click the location name to open the specified location's Location Details page.

The Last Collected column displays the most recent data collection time stamp.

The **Success Rate** column displays the percent success for the date range.

Clicking *View all* at the bottom of the tool will open the **Collect Status** Report page to provide further information.

Notifications Tool

Notifications								
Status	Percent Complete	Туре	Name	Completed Date V				
Completed	100%	Collect	Echo_1104M Collect	02/23/2017 13:51				
Completed	100%	Collect	ECHO_9107 Collect	02/23/2017 13:51				
Completed	100%	Collect	Bad Status Collect	02/17/2017 12:06				
Scheduled	0%	Collect	Dynamic_50499 Collect					
Scheduled	0%	Collect	Echo_9121 Collect					
Running	50%	Collect	SB16 Collect					
		View all						

The **Notifications** tool displays information on recent on-demand collects or data exports. The table displays the following columns: Status, Percent Complete, Type, Name, and Completed Date. The table can be sorted using any of these columns.

The **Status** column displays the status of the on-demand collect or data export action, whether it is has been completed, scheduled, running, aborted, or failed.

The **Percent Complete** column displays the percentage of the action that has been completed.

The **Type** column signifies whether the action was a data collect or data export.

The **Name** column gives the name of the instance of the task type, and if applicable, gives the name of the location from which the action was initiated. From the above example, *Echo_1104M Collect* is a collection of data from the Echo_1104M monitor.

The **Completed Date** column gives the time stamp of when the action was completed.

Clicking *View All* will take the user to the *Reports – User Tasks* tab and will allow the user to generate a report and view past data collects and data exports.

Events									
🙆 Dashboard	🗂 Events	• Locations	Reports	🖻 Vault	🌣 Manage				

The **Events** screen is accessed through the **Events** tab in the top left of the FlowView interface. It functions similarly to the Alarms tool of the Dashboard, but with more robust functionality.

There are two tabs within the Events screen, the **Alarms** tab and the **Events** tab. The Alarms tab generates an Alarms Log of the active alarms for all project locations or a subset of locations chosen by the user. The Events tab generates the Events Log for all project locations or a subset of locations chosen by the user.

	Action	Event ID	Status 🛦	Event Type	Date/Time	Location	Installation Type	Graph	Description	Acknowledged By
+	*	112965		Dry Overflow	02/22/2017 07:55	IC01	Pipe		Dry Overflow detected.	
+	*	112964		High Level	02/22/2017 07:55	IC01	Pipe		High Level detected at 02/22/2017 07:55:00 . Event processed at 02/22/2017 07:56:56 .	-
+	*	112947		Dry Overflow	02/22/2017 07:35	IC01	Pipe		Dry Overflow detected.	
+	*	112952		PROD Custom Unidepth PeakVel	02/22/2017 06:55	SB15	Pipe		PROD Custom Unidepth PeakVel detected at 02/22/2017 06:55:00 . Event processed at 02/22/2017 07:41:00 .	-
+	*	112862		Dry Overflow	02/21/2017 18:50	IC01	Pipe		Dry Overflow detected.	
÷	*	112893		Dry Overflow	02/21/2017 09:25	HSV1T	Pipe		Dry Overflow detected.	-
+	*	112882		High Level	02/21/2017 09:25	HSV1T	Pipe		High Level detected at 02/21/2017 09:25:00 . Event processed at 02/21/2017 19:03:38 .	-
+	*	112813		Dry Overflow	02/21/2017 08:05	IC01	Pipe		Dry Overflow detected.	
+	*	112916		Dry Overflow	02/21/2017 07:55	SB10	Pipe		Dry Overflow detected.	-
+	*	112908		High Level	02/21/2017 07:55	SB10	Pipe		High Level detected at 02/21/2017 07:55:00 . Event processed at 02/21/2017 19:04:28 .	
+	*	112715		Dry Overflow	02/20/2017 16:05	IC01	Pipe		Dry Overflow detected.	
+	*	112914		SB10 Below Minimum Threshold (4 MGD)	02/20/2017 15:40	SB10	Pipe		SB10 Below Minimum Threshold (4 MGD) detected at 02/20/2017 15:40:00 . Event processed at 02/21/2017 19:05:09 .	

Alarms Log

The **Alarms Log** feature enables the user to view a table containing all (unacknowledged and acknowledged) alarms occurring in the currently selected project.

The table of the **Alarms Log** displays the following columns: Action, Event ID, Status, Event Type, Date/Time, Location, Installation Type, Graph, Description, and Acknowledged By. The table can be sorted using the Event ID, Status, Event Type, Date/Time, Location, Installation Type, Description, and Acknowledged By. Clicking a sortable heading three times will return the table to the default sorting method. Clicking the "+" button on the left side of the table will provide information regarding Events associated with that particular alarm, such as notification emails.

The drop-down menu at the top of the Alarms tab allows the user to choose from the default template or different saved report templates. After selecting a template, clicking the **Generate Report** button will populate the table with the template's parameters.

Clicking *View Parameters* allows the user to modify the alarm log parameters for the Locations displayed, the Date/Time range, the Event Types displayed, the Alarm Status types displayed, the Users, and the Max Records displayed. When changing these parameters, a new template can be saved for easy access to an Alarms log using the same parameters in the future.

Users can click the **Acknowledge Page** and **Clear Page** buttons to acknowledge and clear all alarms displayed on the page, respectively.

Users also have the option to download the Alarm Log information in a CSV file.

For further information on the Action, Status, Event Type, Date/Time, Location, and Graph column descriptions, see the *Alarms* section above.

<u>Event ID</u>

The Event ID number is the record number associated with the event in the FlowView system.

Installation Type

The **Installation Type** column provides information on the type of installation where the alarm was triggered. Installation Types can include: Channel, Flume, Pipe, Weir, and Rain Gauge.

Description

The **Description** column displays a description of the type of alarm, the time stamp of the alarm, and, if applicable, the time stamp of when the event was processed.

Acknowledged By

If the Alarm has been acknowledged, the **Acknowledged By** column displays whether the alarm was acknowledged by the system or a user.

Events Log

Event ID	Status	Event Type	Date/Time	Location	Installation Type	Graph	Description	User
113050	Complete	Monitor Cryout	02/22/2017 11:13	Echo_9115	Pipe		Success	-
113049	Complete	System Cleared Alarm	02/22/2017 11:02	Echo_9131	Pipe		Clear High Level detected at 02/22/2017 11:02:38 . Event processed at 02/22/2017 11:02:38 .	-
113048	Complete	System Acknowledge Alarm	02/22/2017 11:02	Echo_9131	Pipe		Acknowledge High Level detected at 02/22/2017 11:02:38 . Event processed at 02/22/2017 11:02:38 .	-
113047	Complete	High Level	02/22/2017 10:55	Echo_9131	Pipe		High Level returned to normal at $02/22/201710{:}55{:}00$. Event processed at $02/22/201711{:}02{:}37$.	-
113046	Complete	Monitor Cryout	02/22/2017 11:02	Echo_9131	Pipe		Success	
113045	Complete	Monitor Cryout	02/22/2017 11:01	Echo_HSV1T_9103	Pipe		Success	
113044	Complete	Monitor Cryout	02/22/2017 10:58	Echo_1104M	Pipe		Success	
113043	Complete	Monitor Cryout	02/22/2017 10:51	Echo_SB16_9101	Pipe		Success	
113042	Complete	Monitor Cryout	02/22/2017 10:41	Echo_SB15_9105	Pipe		Success	-
113041	Complete	User Login	02/22/2017 10:24		-		gholmes has logged in.	
113040		High Level	02/21/2017 11:40	Echo_9131	Pipe		High Level detected at 02/21/2017 11:40:00 . Event processed at 02/22/2017 10:02:45 .	-
113039	Complete	System Cleared Alarm	02/22/2017 10:02	Echo_9131	Pipe		Clear High Level detected at 02/22/2017 10:02:44 . Event processed at 02/22/2017 10:02:44 .	-
113038	Complete	System Acknowledge Alarm	02/22/2017 10:02	Echo_9131	Pipe		Acknowledge High Level detected at 02/22/2017 10:02:44 . Event processed at 02/22/2017 10:02:44 .	-
113037	Complete	High Level	02/21/2017 11:35	Echo_9131	Pipe		High Level returned to normal at 02/21/2017 11:35:00 . Event processed at 02/22/2017 10:02:44 .	-

The **Events Log** feature enables the user to view a table containing all or a subset of the events that are occurring or past events that have occurred within the context of the currently selected project.

The table of the **Events Log** displays the following Columns: Event ID, Status, Event Type, Date/Time, Location, Installation Type, Graph, Description, and User.

Similar to the Alarms tab, the Events tab provides the user the ability to: modify the parameters of reports, save report templates, generate new reports, and download the reports in CSV format.

The Event ID, Date/Time, Location, Installation Type, and Graph columns are the same as those described above in the Alarms Log.

<u>Status</u>

The **Status** column displays the status of the particular event, either in-progress or complete.

<u>Event Type</u>

The Event Type column provides a short description of the type of event.

Description

The **Description** column provides further information on the type of event or alarm, and provides information on which user was involved in the event or notified of the event.

<u>User</u>

The User column contains the name of the user who performed the action which caused the event to be recorded.

<u>Locations</u>					
🙆 Dashboard	🗂 Events	Q Locations	🖹 Reports	🗁 Vault	🌣 Manage

The **Locations** screen is accessed through the Locations tab in the top left of the FlowView interface. It provides further access to **Location Details**, **Location Groups**, and **Composite Locations** screens.

Location Details

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The initial **Location Details** screen displays a drop-down list of Location Groups and a complete and searchable list of locations. Clicking on one of these locations will open that location's Location Details page. For each individual page, users can choose between viewing the hydrograph or scattergraph. Users can also easily navigate between locations by clicking the desired location.

Beneath the graph, the Location Details page provides similar, but more in-depth, information details like those found by clicking location markers in the Map.

Location Groups

The Location Groups page displays a table containing all location groups within the project.

Clicking the **New Location Group** button allows the user to create a new location group by checking the box on the left side of the pop-up window for each location that will be in the group.

Location Groups						
					NEV	LOCATION
Search						
Group Name 🔺	Description			Count	Action	Collect
Demo Group				5/45	<u>î</u>	1
East Huntsville				8/45	<u>î</u>	***
ECHO Monitors	877			5/45	<u>è</u>	7
Q Search						
Location 🛦	ť	Installation Type	Description			
Echo_1104M		Pipe				
Echo_HSV1T_9103		Pipe				
Echo_HSV3_9112		Pipe	-22			
Echo_SB15_9105		Pipe				
		Diss				

The + button on the left side of the table will expand the information to display each location that is in that location group. The Group Name and Description columns provide information on the location group. The Count column displays how many locations are in the location group compared to the total number of locations in the project. The Action column allows the user to delete or edit location groups, and the Collect Column allows the user to initiate a collect for the entire location group.

Composite Locations

The **Composite Locations** screen's functionality is very similar to the Location Group screen. Users can create **New Composite Locations** by clicking the button and adding in the desired locations. Clicking the + button on the left side of the table expands the information on the composite location, and the **Location** and **Description** columns provide brief descriptions about the composite location. The **Active** column displays whether or not the location is active, the **Action** column allows the user to edit the composite location, and the **Collect** column allows the user to initiate a collect of the composite location.

<u>Reports</u>					
Dashboard	🗂 Events	♥ Locations	Reports	🗁 Vault	🌣 Manage

The **Reports** screen is accessed through the Reports tab in the top left of the FlowView interface. It allows users to generate **Events**, **Monitor**, **Flow Data**, and **Administrative** reports. Users can also modify the parameters of each report type, and save the new parameters as a report template. The usable report templates can be selected from the drop-down list at the top left of the reporting category. The reports can be scheduled and set to email selected recipients when creating the template or an on-demand report can be generated by clicking the **Generate Report** button, which will create a report using the selected parameters.

Note that the availability of different reports is dependent upon user permission levels.

Most reports allow the user to modify certain report parameters, such as Locations, Date/Time, etc., by clicking the *View Parameters* button at the top of the report screen. An example from the **Alarms** report parameters is shown below. The Locations parameter allows the user to select either a location group or manually select the locations to be included in the report. The Date/Time parameter allows the user to select a particular time frame (such as week to date, month to date, past 7 days, etc.) or to create a custom range.

	Expand all / Collapse all								
LOCATIONS	DATE/TIME	EVENT TYPES							
All Locations Group 44 of 44 selected Select All Locations	Week to Date (03/04/2017 00:00 - 03/10/2017 23:59	☑ Select All 20 of 20 selected							
*	*	*							
ALARM STATUS	USERS	LOG OPTIONS							
 ✓ Alarming ✓ Acknowledged □ Cleared 	✓ Select All 40 of 40 selected	☑ Show Supporting Events							
	*								

Clicking the arrows at the bottom of the parameter box will open further options. An expansion of the Event Types parameter is shown below. The list shows the types of events that the user can choose to display in the report. All event types are selected by default.

EVENT TYPES	
☑ Select All	
Include Obsolete	
20 of 2	20 selected
Q Search	
✓ Complex Test - PRODUCTION	^
✓ Dry Overflow	
✓ Flow Loss	
🗸 Full Pipe	
🗸 High High	
✓ High Level	
✓ Low Level	
✓ Overflow	
 PROD Custom Almost High Level 	\sim
*	

Events Reports

Events reports include: **Alarms**, **Events**, and **Event Summary** reports. **Events** reports can be downloaded in either PDF or CSV format by clicking the *Download* drop-down menu and selecting the appropriate option.

Reports in the **Events** category allow the following parameters to be modified: Locations, Date/Time, and Event Types. **Alarms** reports additionally allow the user to modify the Alarm Status, Users, and Log Options parameters.

Alarms Reports

The **Alarms** report generates a tabular report containing the alarms, or a subset of alarms, and supporting events for the specified time period.

🖹 Report - A	E Report - Alarms									
	Default		•				GENERATE REPORT			
				View F	Parameters					
					*		🛃 Download 👻			
Q Search										
Alarm ID	Status	Date/Time	Location	Installation Type	Alarm Type	User	Description			
114259	Alarming	02/28/2017 08:25	FST-IM_50172	Pipe	Dry Overflow		Dry Overflow detected at 02/28/2017 08:25:00			
114273		02/28/2017 18:12	FST-IM_50172	Pipe	Notification Email	System	Notified jwright via JWright@idexcorp.com of Dry Overflow detected. Event ID: [114259].			
114248	Alarming	02/28/2017 15:00	FST-IM_50172	Pipe	High Level		High Level detected at 02/28/2017 15:00:00			
114269	-	02/28/2017 18:12	FST-IM_50172	Pipe	Notification Email	System	Notified jwright via JWright@idexcorp.com of High Level detected at 02/28/2017 15:00:00 . Event processed at 02/28/2017 18:12:12 . Event ID: [114248].			
114265	Alarming	02/28/2017 15:00	FST-IM_50172	Pipe	Dry Overflow		Dry Overflow detected at 02/28/2017 15:00:00			

Events Reports

The **Events** report generates a tabular report containing the events, or a subset of events, that have been logged during the specified time period.

Report -	Events					
	Default	•				GENERATE REPORT
			View P	Parameters		
				*		🕹 Download 🗸
Q Search						
Event ID	Location	Event Type	Date/Time 🛦	Value	Limit	Description
113140		Notification Email	02/23/2017 03:00	-		Notified jwright via JWright@idexcorp.com of report BatterySummary_088533cc.pdf generation.
113145	SB15	Location Flow Data	02/23/2017 03:10	UniDepth = 6.89 in PEAKVEL_1 = 3.10 ft/s		PROD Custom Unidepth PeakVel returned to normal at 02/23/2017 03:10:00
113142	IC01	Location Flow Data	02/23/2017 03:10	HighLevel = 0.0000		High Level returned to normal at 02/23/2017 03:10:00
113144	IC01	Cleared By System	02/23/2017 03:12	-	0	Clear High Level detected at 02/22/2017 07:55:00 . Event ID: [112964].
113143	ICO1	Acknowledge By System	02/23/2017 03:12	-	0	Acknowledge High Level detected at 02/22/2017 07:55:00 . Event ID: [112964].

Event Summary Reports

The **Event Summary** report generates a tabular report containing statistical data for each location about events that have been generated.

Report -	Event Summar	у									
	Default			•					GENERATE REPORT		
					View Paramete	rs				_	
					*				Ł Download →		
Q Search											
Location A	Dry Overflow	FTP Export	High High	High Level	LIF Export	Low Level	Monitor Cryout	Monitor Data Collect Failure	Monitor Data Collect Success	Notification Email	
<totals></totals>	41	40	9	85	2	2	213	119	133	113	
BC10	0	0	0	0	0	0	0	0	0	0	0
Echo_1104M	0	0	0	0	0	0	26	0	7	0	
ECHO_9107	0	0	0	0	0	0	0	0	0	0	0
Echo_9115	0	0	0	2	0	2	28	0	0	0	

Monitor Reports

Monitor reports include: Battery Status, Battery Summary, Collect Progress, Collect Status, and Collect Summary reports.

Reports of the **Monitor** type allow the Locations parameter to be modified. The **Collect Summary** report additionally allows the Date/Time parameter to be modified, while the **Collect Progress** report has no parameters that can be modified.

Battery Status Reports

The **Battery Status** report generates a graphical and tabular report concerning the voltage levels of each location. It is similar to the **Battery Status** Tool above, but it contains all sites within the project or location group. The data can be downloaded in CSV format.

Report - Batt	ery Status			
	Default			GENERATE REPORT
		Vie	w Parameters	
			*	🛓 Download 👻
			Q Search	
	336		Location	Voltage (V)
	1755		Echo_HSV3_9112	5.75
			Echo_9115	8.30
			Echo_SB15_9105	6.16
			Echo_SB16_9101	6.92
			RSPS_00120	8.24
			SB15	7.63
			BC10	10.03
			Dynamic_50499	9.80
			ECH0_0006	8.99
		79%	Echo_1104M	8.24
			ECHO_9107	8.93
			Echo_9110	7.24

Battery Summary Reports

The **Battery Summary** report provides a table of project locations and summary information about the installation type and battery voltage at the last reading. The data can be downloaded in PDF or CSV format.

🖹 Report - Batter	y Summary					
	Default	•			GENERATE	REPORT
		v	iew Parameters			
					🛃 Downlo	ad 👻
Q Search						
Location 🔺	Installation Type	Last Data Collected	Monitor Voltage	Monitor Battery Status	Modem Voltage	Modem Battery Status
BC10	Pipe	02/28/2017 00:00	10.03 V	ок	N/A	N/A
Dynamic_50499	Pipe	12/07/2016 00:00	9.80 V	ок	N/A	N/A
ECHO_0006	Pipe	02/17/2017 00:00	8.99 V	ок	N/A	N/A
Echo_1104M	Pipe	03/01/2017 00:00	8.24 V	ОК	N/A	N/A
ECHO_9107	Pipe	03/01/2017 00:00	8.93 V	ок	N/A	N/A

Collect Progress Reports

The **Collect Progress** report displays the status of any in-progress data collections. It also gives the user the ability to cancel the collection with the *Abort* button.

Report - Colle	oct Progress				
Q Search					C
Location 🔺	Start Time	User Name	Percent Complete	Process Status	Action
Echo_1104M	03/08/2017 15:16	gholmes	0%	Scheduled	ABORT
Showing 1 of 1 records					

Collect Status Reports

The **Collect Status** report generates a bar graph and table representing the communication success rate. It is similar to the **Collect Status** Tool above, but contains all sites within the project or location group. The data can be downloaded in CSV format.



Collect Summary Reports

The **Collect Summary** report generates a tabular report indicating the data collection success and failure totals as well as the percentage of successful collects for each location over the specified period of time. The data can be downloaded in PDF or CSV format.

🖹 Report - Collec	t Summary			
	Default	•		GENERATE REPORT
Q Search		View Parameters 😽		🛃 Download 🗸
Location 🔺	Installation Type	Data Collect Successes	Data Collect Failures	Percent Data Collect Success
BC10	Pipe	6	0	100
Dynamic_50499	Pipe	0	21	0
ECHO_0006	Pipe	0	0	0
Echo_1104M	Pipe	7	0	100
ECHO_9107	Pipe	7	0	100

Flow Data Reports

Flow Data reports include: Daily Summary, Data Export, Entity Data, Hydrograph, Percent Full, Scattergraph, Uptime, Weekly Detail, and Weekly Summary reports.

Reports in the **Flow Data** category allow the following parameters to be modified: Locations, Date/Time, and Entities. Most reports in this category also allow for certain Report Options to be modified. Additional parameters specific to the report type are available in the **Data Export**, **Hydrograph**, and **Scattergraph** reports.

Daily Summary Reports

The **Daily Summary** report displays daily minimum, maximum, average, and total values for the user-selected entities. The default entities are *UNIDEPTH*, *Vel* (Velocity), *QContinuity*, and *Rain* data (if applicable) for each location. The data can be downloaded into CSV (Daily Summary or Report Summary) or PDF format.

	,	Default												GENERATE REPOR	a'		
									View Paramete	a							
< BC10 Dyn	amic_50499	Dynamic	50499(2)	ECH0_0006	Echo_1104M	ECH0_9107	Echo_9110	Echo_9115	Echo_9121	Echo_9131	Echo_HSV17_9103	Echo_HSV3_9112	Echo_\$815_9105	Echo_\$816_9101	F\$T-IM_50172	FST-IN_S	501)
														A Download			
pe Height: 10.00 in, Silt	t: 0.00 in			01123:39													
e Height: 10.00 in, Silt port Summary	t: 0.09 in UniD	epth (in) - 1.42		Vel (ft/s) 3.70	QContinuity (MGD) 0.683 0.118												
pe Height: 10.00 in, Sil eport Summary stal st ally Summary	t: 0.00 in UniD	epth (in) 1.42		vei (fr/s) 3,78	QContinuity (MCD) 0.683 0.118												
ee Height 10.00 in, SR eport Summary tal g aily Summary late	uni0	epth (in) 1.42	UniDepth (in)	Vel (fr(s) 2,78	QContinuity (MGD) 0.683 0.118			14š			QCa {	stimulty GGD)			Ralin (in)		
ee Height: 10.00 in, SR eport Summary tal g ally Summary tate	tt 0.00 in UniD	epth (in) 1.42 Min	UniDepth (in) Time	Vel (ft/s) 3.78 Max 4	QContinuity (McO) 0.683 0.118 vg Total	Time	ti (f	tel 1/dj Max	Aug Tot	al Time	QCo (stimuity KGD) t Max Aug	Total Ti	ine Min S	Rain (ja) Fime Max	Avg	Total
ee Height 10.00 in, Sill eport Summary tal 6 ally Summary 10 10 2024/2017	tt 0.00 in UniD Time 03:45	epth (in) 1.42 Min 1.19	UniDepth (in) Time 05:00	Vel (fr/s) 2.78 Max A 1.67 1	QContinuity (Jeco) 0.683 0.118 vg Total .41 -	Time 03x45	(f Min Time 2.73 09:00	rei K(s) Max 1 445	Avg Tot 3.74	al Time - 0345	QC0 (1410 Tim 0.064 094	stimulty 560) 1 Max Avg 0 6.172 6.11	Total Ti 0.113	ine Min S	Ralin (jin) Fime Max	Avg	Total
ee Height 10.00 in, Sill eport Summary cal g ailly Summary hate 0/24/2017	tt 0.00 in UniD Time 03:45 02:45	epth (in) 1.42 Min 1.19	UniDepth (in) Time 05:00 11:30	Vel (ft/s) 	QContinuity (McO) 0.643 0.118 vg Total 41 - -43 -	Time 03x45 04x5	1 (f Min Time 2.73 09:00 2.09 11:30	tel 1/5) 1 4.45 1 4.57	Avg Tot 3.74 3.76	al Time - 0345 - 0445	Qco (Min Tim 0.064 09:0	stimulty 660) 1 Max Avg 0 6.172 6.11 0 6.187 6.19	Total Ti 6.0.15 0.0.19	ine Mo. 00 (117) 11 (117) 11	Rain (in) Time Max	Ave :	Total
ee Height 30.00 In, Sill eport Summary all g ally Summary bate g/34/2017 g/26/2017	tt 0.00 in UniD Time 03:45 02:45 05:15	epth (in) 1.42 Min 1.19 1.19 1.19	UniDepth (in) Time 09:00 11:30 20:30	Vel (ft/s) 2,78 Max A 1,67 1 1,74 5 1,79 1	QContinuity (McO) 0.683 0.118 vg Total 41 - -43 - 45 -	Time 03x45 0445 0445	1 Min Time 2.73 09:00 2.09 11:30 2.61 20:30	rei US) Max 1 4.45 1 4.57 1 4.68	Avg Tot 5.74 1.76 2.83	al Time - 0345 - 0445 - 0445	9000 (1000 Tim 0.064 095 1101 0.055 1101	stimolity 5600) 1 Max Avg 0 0.172 0.11 0 0.187 0.13 0 0.194 0.12	Total Ti 1 0.115 0.139	іпе Мо. П (127 11) (127 11) (127 11)	Bain (ja) Tirrę Max 1	Ang :	Tota

Data Export Reports

The **Data Export** report provides information about scheduled data exports. Once the data export is completed, the data can be downloaded by clicking the button in the **Download** column. Click the Refresh icon to re-load the screen to obtain an up to date status of the exports.

	Report - Data	a Export							
De	fault		•					GENERATE R	EPORT
				View Pa	rameters				
					×				
									2
Q s	earch								
	Status	Start Date/Time				File	Size	Download	
	Completed	03/10/2017 13:17				6 KE	В	Ŧ	
	Start Date/Time	En	d Date/Time	Data Averag	ing	Format	Locations	Entities	
	03/04/2017 00:00	03	/10/2017 23:59	OneHour		Excel	BC10	UNIDEPTH VELOCITY QCONTINUITY RAIN	

Entity Data Reports

The **Entity Data** report provides the raw, stored entity data for each location. The table displays entity readings for each time stamp. The data can be downloaded in a CSV (daily summary) or PDF format.

	Default										0	GENERATE REPORT			
	-						View Paramete	8					7		
< BC10 Dynamic_5049	99 Dynamic_50499(2)	ECH0_0006	Echo_1104M	ECH0_9107	Echo_9110	Echo_9115	Echo_9121	Echo_9131	Echo_HSV17_9103	Echo_HSV3_9112	Echo_\$815_9105	Echo_\$816,9101	FST-IM_50172	FST-IM_501	ж
C.												Ł Download •		,	
BC10															
BC10 Entity Data Report for the Period 02 Pipe Height: 10.00 in, Silt: 0.00 in	2/24/2017 00:00 - 03/02/2017 2	23:59													
BC10 Entity Data Report for the Period 0; Pipe Height: 10.00 in, Silt: 0.00 in	2/24/2017 00:00 - 03/02/2017 2	23:59			Data is a	evailable for the F	following entitles	UniDepth , Vei , G	QContinuity						
BC10 Entity Data Report for the Period 0 Pipe Height: 10.00 in, Silt: 0.00 in 02/24/2017	2/24/2017 00:00 - 01/02/2017 2	23:59			Data is a	evailable for the S	lolowing entities	UniDepth , Vel , G	QContinuety						
BC10 Entity Data Report for the Period 0: Pipe Height: 10.00 in, Silt: 0.00 in 02/24/2017 Time A	2/34/2017 00:00 - 03/02/2017 2 UniDepth	23:59 ; (in)	Vel	L(105)	Data is a QContinui	evailable for the S Hy (MGD)	following entities	UniDepth , Vei , t	QContinuity						
BC10 Entity Data Report for the Period C: Pipe Height: 10.00 in, Silt: 0.00 in 02724/2017 Time A 00.00	2/24/2017 00:00 - 01/02/2017 2 UniDepth	23:59 (in) 1.29	Vet	1(R/s) 340	Data is a QContinui	ivailable for the f ity (MGD) 0.090	lolowing entities	UniDepth , Vel , 4	QContinuity						
BC10 Entity Data Report for the Period Cr Pipe Height: 10.00 in, Silt: 0.00 in 02/24/2017 Time A 00.00 00.13	2/24/2017 00:00 - 03/02/2017 2 UniDepth	(in) 1.25 1.28	Vet	1(ft/s) 3.40 1.50	Data is a QContinui	evailable for the f ity (MGD) 0.090 0.091	obowing entities	UniDepth , Vel , G	QContinuity						
BC10 Entity Data Report for the Period Cr Pipe Height: 10.00 in, Silt: 0.00 in 02/24/2017 Time A 00.00 00.15 00.30	2/24/2017 00:00 - 03/02/2017 2 UniDepth	(in) 1.25 1.27	Vel	1 (ft/s) 3.40 3.50 3.46	Data is a QContinui	evailable for the 5 (http://MGD) 0.090 0.091 0.090	following entities	UniDepth , Vel , (QCantinuity						
BC10 Entity Data Report for the Period Cr Pipe Height: 10.00 in, Silt: 0.00 in 02/24/2017 Time A 00:00 00:15 00:30 00:45	2/24/2017 00:00 - 03/02/2017 2 UniDepth	(in) 1.29 1.27 1.24	Vel	1 (ft/5) 3.40 3.50 3.46 3.53	Data is a QContinui	Hy (MGD) 0.090 0.090 0.094	following entities	UniDepth , Vel , S	QCastinuty						
BC10 Entity Data Report for the Period Cr Pipe Height: 10.00 in, Silt: 0.00 in 02/24/2017 Time A 00.00 00.15 00.30 00.45 01.00	2/24/2017 50:00 - 03/02/2017 2 UniDepth	(in) 1.23 1.23 1.27 1.24 1.24	Vel	t (ft/s) 3.40 3.50 3.44 3.35 3.30	Data is a QContinui	Ity (MCD) 0.090 0.090 0.094 0.084	following entitles	UniDepth, Vel, s	QCantinuty						
BC10 Entity Data Report for the Period 0; Pipe Height: 10.00 in, Silt: 0.00 in 02/74/2017 Time ▲ 00.00 00.15 00.00 01.15	2/24/2017 50:00 - 03/02/2017 2 UniDepth	(m) 125 125 125 127 124 124 123	ve	((fr/s) 3.40 3.50 3.44 3.33 3.30 3.32	Data is a QContinut	wailable for the f Hy (MCD) 0.090 0.091 0.090 0.084 0.082	following entitles	UniDepth, Vel., C	QContinuity						

Hydrograph Reports

The **Hydrograph** report has more robust functionality than the hydrograph available in other parts of the FlowView interface and provides the user with the flexibility to modify **Hydrograph**-specific parameters such as the Graph Layout, Annotation, and other Report Options. Note that in the Graph Layout parameters, the Formal graph displays the location information, pipe size and shape, report period, and legend to the left side (shown below). The Informal graph removes these displays.



The print icon, located in the upper right of the graph, provides the user with the **Print Graph** option. This functionality is also present in Scattergraph reports. All internet browsers have the capability to print the graph to a user-configured printer, and the following table describes each browser's Print to PDF capabilities.

Browser	Print to PDF
Chrome	Choose Print Graph to access Chrome supported PDF print option.
Edge	Choose Print Graph to access Windows 10 native PDF print option.
Firefox	Firefox users running Windows 10 choose Print Graph to use native PDF print option.
	Firefox users running on other operating systems must manually download a PDF printer driver prior to being able to print a graph to PDF.
IE11	Users must download a PDF printer driver prior to printing a graph to PDF.
Safari	PDF printing not supported.

Percent Full Reports

The **Percent Full** report indicates the average and/or maximum percentage of the Depth/Diameter of the pipe for each location over designated time periods. The data can be downloaded in CSV or PDF format, and the graph can be downloaded in PNG, JPEG, PDF, and SVG vector image format.

🗄 Report - Percent Fo	ull					
	Default				GENERATE	REPORT
			View Parameters			
	Percent Full Report		*			
	Past 90 Days: 12/02/2016 00:00:00 - 03	01/2017 23:59:59				
	Past 30 Days: 01/31/2017 00:00:00 - 03/01/ Past Day: 03/01/2017 00:00:00 - 03/01/	01/2017 23:59:59				
	100 100 100 100 100 100 100 100 100 100	2017 23.33.33				
						=
	80					
	-					
	90 E					
	10 10					
	4					
	20	1920				
	0		8C10		×.	
		Past Day Max 📕 Past Day Avg 📕 F	Past 30 Days Max 📕 Past 30 Days Avg	Past 90 Days Max 📰 Past 90 I	Days Avg	
					Z. Down	load -
Q Search						
Location A	Past Day Average	Past Day Maximum	Past 30 Days Average	Papt 30 Days Maximum	Past 90 Days Average	Past 90 Days Maximum
BC10	14	17	14	20	14	27
Showing 1 of 2 recently						

Scattergraph Reports

The **Scattergraph** report has more robust functionality than the scattergraph available in other parts of the FlowView interface and provides the user with the flexibility to modify **Scattergraph**-specific parameters such as the Graph Layout, Engineering Curves, and other Report Options. Note that in the Graph Layout parameters, the Formal graph displays the location information, pipe size and shape, report period, and legend to the left side (shown below). The Informal graph removes these displays.



Users also have access to the **Custom Scattergraph** tab at the top of the report. With a **Custom Scattergraph**, the user can define the parameters of the Location used for the X-axis, the Location used for the Y-axis, the X and Y entities, and the Date/Time parameter.



Uptime Reports

The **Uptime** report displays the data availability for the selected entities and provides an average and a daily percentage of the amount available based on the criteria set in the parameters section, shown below. The data can be downloaded in CSV or PDF format.

	Oesan					GENERATE REPOR	
				View Parameters			
				U C		A Download	•
rgend:							
Good							
E Partial							
Mining .							
time Data For The Period 02/24/2	017 - 02/28/2017						
time Data For The Period 02/24/3 Q. Search constant Name	017 - 02/28/2017 Average L	intity Uptime	24Fri	25 Sat	26 Sun	27 Men	28 Tue
Inter Data For The Period 02/24/3 Q Search Location Name cation A	017 - 02/28/2017 Average 5 UniD	Entity Uptime	24 Fri 100	25 Sat	26 Sun 158	27 Man 100	28 Tue 100
CLID	017 - 02/28/2017 Average 5 UniD Vel QCon	Entity Uptime 100 % 100 %	24 Fri 100 100 100	25 534 100 100	26 Sun 166 100 100	27 Mon 100 100	28 Tue 100 300
Rime Data For The Period 02/24/2 Q. Seerch location Name acation A COD	917 - 92/28/2917 Average I UniD Vet QCon	Lodity Uptime 100 % 100 %	24 Fri 100 100 100	25 Sat 100 100 100	26 Sun 100 200 100	27 Man 100 100 100	28 Tue 100 200 200
Attime Data For The Period 02/24/2 Q Search Location Name Addison & Color Dennerg 1 of records Q Search Location Name	917 - 92/28/2017 Average I UniO Vel QCon	Lotity Uptime 100 % 100 % 100 %	28 Fri 100 300- 300-	25 Sat 100 100 100 100	26 Sun 100 300 100	27 Man 100 100 100	28 Tue 100 200 200
Clip Data For The Period 02/24/2 Q Search Location Name Clip Clip Clip Clip Clip Clip Clip Clip	917 - 92/24/2017 Average I UniO Vet QCon Average I	Lodity Uptime 100 % 100 % 100 %	24 Fri 100 100 100	25 SH 100 100 100 100	26 Sun 100 100 100	27 Man 100 100 100 2 Thu	28 Tue 100 200 200
ptime Data For The Period 02/24/2 Q. Swerth Location Iteme (acation & CLID 20mming 1 of 1 records) Q. Swerth Location Iteme scatters & CLID	917 - 92/24/2017 Average I UniD Vet QCon Average I UniD	Lotity Uptime 100 % 100 % 100 % 100 %	24 Fri 100 100 100	25 Sat 100 100 100 100 1 Wed	26 Sun 100 200 100	27 Man 100 100 100 2 Thu	28 Tue 100 200 200

The Report Options parameters provide specific **Uptime** report parameters that impact the percentage calculations. The **Set Percent** option allows the user to change the percentage at which the data will display as green or good, with the default set to 80%. The drop-down menu allows the user to select the average interval, with the default set as One Hour. The Quality Flagged Data and Manually Modified Data checkboxes are not selected by default. Clicking to include Quality Flagged data will include data that has been flagged as potentially inaccurate in the uptime percentage calculations. Clicking to include Manually Modified data will include data that has been modified by the user in the uptime percentage calculations.

80	
One Hour	,

Weekly Detail Reports

The **Weekly Detail** report gives UNIDEPTH, Vel (Velocity), QContinuity, and Rain data over time for each day in the week. It also provides totals, averages, minimum values, and maximum values of the entities for each day, as well as entity totals and averages for the week.

Re	port -	Week	dy Det	ail																										
				De	lault							•															GENERATE REPORT			
				-											8	View Param	eten											-		
« []	BC10 1	Dynamik	c_50499	Dynar	mic_5049	9(2)	ECH0_00	06 1	Echo_110	4M	ECH0_910	17 E	Echo_9110	Echo	9115	Echo_91	il Eð	0_9131	Echo_	HSV17_9	103	Echo_HS	3_9112	Echo	_\$815_	9105	Echo_\$816_9101	F\$T-IM_50172	PST-04_501	*
	<																												>	
C10 ekly Det	tail Report	t for the	Period 02	/24/2017	00:00 - 03	3/02/201	17 23:59																				T pownood .			
e Heigh Ily Su Time	it: 10.00 in, mmary	02/24	1/2017			02/25	2017			02/26/	2017			03/37/201	17		62/2	1/2017			03/01	2017			01/02/	2017				
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Heigh Iy Su (0000 (2000 (2000 (2000 (2000 (2000) (2	Unit Unit (in) 127 123 123 120 120 120 121	02/24 Vel (RVs) 3.42 3.05 2.57 2.80 3.04	(2017 QCon (MGD) 0.059 0.079 0.075 0.069 0.066 0.066	Rain (in) 	UniD (in) 1.30 1.24 1.22 1.21 1.22 1.21	02/25/ Vel (Rt/s) 3.49 3.03 3.05 2.55 2.41 2.67	20017 QCon (MGD) 0.094 0.076 0.074 0.062 0.059 0.059	Rain (in) 	Usil0 (in) 1.33 1.23 1.22 1.21 1.21 1.20 1.39	02/26/ Vel (ft/s) 3.64 3.17 2.64 3.75 2.71 2.87	(2017 (MGB) 0.100 0.078 0.069 0.065 0.065 0.065	Rain (in)	Und0 (in) 1.28 1.25 1.22 1.20 1.19 1.30	03/27/201 Vel Q (fUs) (M 3.27 0. 3.14 0. 2.67 0. 2.69 0. 2.74 0. 3.01 0.	17 (Con 6 (COS) (005 (005) (005) (005) (005) (005)	Raln Uail (in) (in - 12 - 12 - 12 - 13 - 13 - 13	02/2 D Vel 0 (ft/s) 8 3.42 8 2.83 8 2.83 8 2.79 7 2.66 1 3.07	QCon (MGD) 0.059 0.075 0.072 0.065 0.061 0.075	Rain (in) 	UniO (in) 1.27 1.22 1.22 1.24 1.26 1.23	01/01 (ft/s) 3.35 3.11 2.68 2.62 2.64 3.10	2017 QCon (MGD) 0.087 0.075 0.065 0.065 0.068 0.078	Rain (in) 	(in)	en:/02) Vel (ft/s) - - - -	2017 QCon (MGD) 	Rain (in) 			
Heigh Iy Su ine 0:00 1:00 2:00 3:00 4:00 5:00 6:00	Unit Unit (in) 127 123 120 120 120 120 121 130	02/24 Vel (Rt/s) 3.42 3.05 2.87 2.80 8.04 3.69	(2017 QCon (MGD) 0.009 0.075 0.069 0.066 0.074 0.099	Rain (in) 	UniD (in) 1.30 1.24 1.22 1.21 1.22 1.21 1.22	02/25/ Vel (ft/s) 3.49 3.03 3.05 2.55 2.41 2.67 2.62	20017 QCon (MGD) 0.094 0.076 0.074 0.062 0.059 0.064 0.069	Rain (in) 	UniD (in) 1.33 1.23 1.22 1.21 1.20 1.39 1.21	02/26/ Vel (ft/s) 3.64 3.17 2.84 2.75 2.71 2.47 3.05	(MGB) 0.100 0.089 0.065 0.065 0.067 0.073	Rain (in)	UniD (in) 1.28 1.25 1.22 1.20 1.19 1.20 1.34	03/37/303 Vel Q (fUs) (M 3.27 0, 3.14 0, 2.67 0, 2.69 0, 2.74 0, 3.01 0, 3.65 0,	17 (Con 6 (CO) 6 (COS (COS) (COS) (COS) (COS) (COS) (COS) (COS) (COS)	Raln Uni (in) (in - 12 - 12 - 12 - 13 - 13 - 13 - 13	02/2 0 Vel 0 (ft/s) 8 3.42 9 2.83 4 2.89 8 2.79 7 2.65 1 3.07 2 3.88	QCon (MGD) 0.059 0.075 0.072 0.065 0.061 0.075 0.061	Rain (in) 	Uni0 (in) 1.27 1.22 1.24 1.26 1.23 1.32	01/01 Vel (ft/s) 3.35 3.11 2.68 2.62 2.64 3.10 3.88	2017 QCon (MGD) 0.087 0.065 0.065 0.065 0.068 0.068 0.078 0.107	Rain (in)	(in) = = = =	ou/o2) Vel (ft/s) 	QCon (MGD) 	Rain (in) 			
Heigh ly Su inne 0:00 1:00 2:00 5:00 5:00 5:00	Unil0 (in) 127 123 120 120 120 121 130 157	02/24 Vel (Ft/s) 3.42 3.20 3.05 2.57 2.80 3.04 3.04 3.09 4.26	(2017 QCon (MGD) 0.059 0.079 0.075 0.089 0.066 0.074 0.099 0.150	Rain (in) 	UniD (in) 1.30 1.24 1.22 1.21 1.22 1.21 1.22 1.25	02/25/ Vel (Rfs) 3.49 3.03 2.58 2.41 2.67 2.62 3.59	20017 QCon (MGD) 0.094 0.076 0.074 0.062 0.059 0.066 0.069 0.069 0.091	Rain (ia) 	UniD (in) 1.33 1.23 1.22 1.21 1.20 1.39 1.21 1.23	02/26/ Vel (Rt/s) 3.64 3.17 2.64 2.75 2.71 2.87 3.05 3.54	2017 QCon (MGD) 0.100 0.078 0.069 0.065 0.065 0.065 0.065 0.073 0.073	Rain (in) 	Unito (in) 1.28 1.25 1.22 1.20 1.39 1.20 1.34 1.60	03/37/301 Vel Q (FUs) (M 3.27 0. 3.14 0. 2.67 0. 2.69 0. 2.74 0. 3.01 0. 3.05 0. 4.47 0.	17 (Con 6 (005) (005) (005) (005) (005) (005) (005) (005) (005) (005) (005) (005) (005) (005) (005) (005) (006) (0	Raln Usil (in) (ie - 12 - 12 - 12 - 13 - 14 - 13 - 13 - 15	02/2 D Vel 0 (ft/s) 8 3,42 9 2,83 4 2,89 8 2,79 7 2,66 1 3,07 2 3,58 7 4,62	QCon (MGD) 0.069 0.075 0.072 0.065 0.061 0.075 0.107 0.177	Rain (in) 	Uni0 (in) 1.27 1.22 1.24 1.24 1.26 1.23 1.32 1.58	01/01) Vel (ft/s) 3.35 3.11 2.68 2.62 2.64 3.10 3.68 4.57	2017 QCon (MGD) 0.087 0.065 0.065 0.065 0.068 0.078 0.107 0.163	Raln (in) 	Unl0 (in) 	01./02/ Vel (ft/s) - - - - - - - - - - - -	QCon (HGD) 	Rain (in)			
e Heigh Ily Su Time 00:00 02:00 00 000 0	UniD (in) 127 123 123 120 120 121 130 157 164	02/24 Vel (Rt/s) 3.42 3.20 3.05 2.67 2.60 3.04 3.69 4.28 4.42	(2011 QCon (MGD) 0.069 0.075 0.069 0.066 0.066 0.066 0.066 0.099 0.150 0.166	Rain (in) 	UniD (in) 1.30 1.24 1.22 1.21 1.22 1.21 1.22 1.25 1.43	02/25) Vel (Rt/s) 3.49 3.03 3.05 2.55 2.41 2.67 2.62 3.59 4.07	2017 QCon (MGD) 0.094 0.076 0.074 0.062 0.059 0.069 0.069 0.069 0.091 0.126	Rain (in) 	UniD (in) 1.33 1.23 1.22 1.21 1.20 1.39	02/26/ Vel (ftt/s) 3.64 3.17 2.84 2.75 2.71 2.87 3.05 3.54 3.54	(3017 QCon (MGD) 0.100 0.009 0.069 0.065 0.065 0.065 0.073 0.073 0.055 0.073	Rain (in)	Unito (in) 1.28 1.25 1.22 1.20 1.30 1.30 1.34 1.60 1.61	03/27/203 Vel Q (FUS) (M 3.27 0. 3.14 0. 2.67 0. 2.69 0. 2.74 0. 3.01 0. 3.05 0. 4.47 0. 4.43 0.	17 (Con 6 (GD) 6 (085 (085 (085 (085 (085 (085) (108) (108) (1162 (1156	Rain Uni (in) (in - 1.2 - 1.2 - 1.3 - 1.3 - 1.3 - 1.3 - 1.5 - 1.6	02/2 0 Vel 0 (ft/s) 8 3.42 8 2.89 8 2.89 8 2.79 7 2.66 1 3.07 2 3.68 7 4.62 0 4.49	QCon (MGD) 0.089 0.075 0.055 0.061 0.075 0.107 0.107 0.107	Rain (in) 	Uni0 (in) 1.27 1.22 1.24 1.24 1.24 1.24 1.24 1.23 1.32 1.58 1.43	03/01) Vel (ft/s) 3.35 3.31 2.68 2.62 2.84 3.10 3.68 4.57 4.62	2017 QCon (MGD) 0.087 0.075 0.065 0.065 0.068 0.076 0.107 0.163 0.171	Rain (in) 	UniD (in)	eniroz) Vel (Rt/s) - - - - -	2017 QCon (MGD) 	Rain (in) 			

Weekly Summary

The **Weekly Summary** report gives totals, averages, minimum values, and maximum values of *UNIDEPTH*, *Vel* (Velocity), *QContinuity* and *Rain* data collected for the week. It also provides entity totals and averages for the week.

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K BC													_																	
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<	C10	Dynam	iic_50499	Dyr	amic_5	0499(2)	ECHO	0_0006	Echo	1104M	ECHO,	9107	Echo_	9110	Echo_91	15 8	Echo_912	11 Ec	cho_9131	Echo	o_HSV17	9103	Echo_	HSV3_91	12 E	tho_\$81!	9105	Echo_\$816_910	F\$T-IM_50172	FST-IM_501
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C10																														
cekty Sumr	mary R	eport fo	r the Peri	iod 02/24	/2017 0	0:00 - 03/	02/2017	23:59																						
As mergan.	10.001	ny sere e	COD III																											
eport Su	umma	iry																												
		Unit) (in)		Vel (R/s)		QCon (MGD)																								
lotal		-		41		0.683																								
wig.		1.42		3.78		0.118																								
aily Sum	nmary	02/24/	2017			02/25	2017			02/26	/2017			62/27	/2017			02/28	/2017			03/01/	/2017			03/02/2	017			
U	UniO (in)	Vel (fUs)	QCon (MGD)	Rain (in)	Unit) (in)	Vel (ft/s)	QCon (MGD)	Rain (in)	Uni0 (in)	Vel (ft/s)	QCon (MGD)	Rain (in)	UniD (In)	Vel (ft/s)	QCon (MGD)	Rain (In)	UniD (in)	Vel (ft/s)	QCon (MGD)	Rain (In)	UniD (in)	Vel (ft/s)	QCon (MGD)	Rain (in)	UniD (in)	Vel (ft/s)	QCon (MGD)	Rain (in)		
otal			0.115	+		+	0.119	-		×	0.124	+		-	0.119	-	-	×	0.116	-			0.089	-		ж	-	-		
wg 1	1,41	3.74	0.115	\hat{H}_{i}^{i}	1.45	3.76	0.119		1.45	3.83	0.124	20	144	3,77	0.119	\sim	1.40	3.82	0.116	$\overline{\mathcal{A}}$	1.37	3.76	0.112	39		Ξ.	$\langle \phi \rangle$	-		
time 03	13:45	03:45	03:45	-	07:45	04:45	04:45	- 14	05:15	04:15	04:15	- 10	03:45	03:00	03:00	1	03:15	04:15	04:15		01:30	04:00	04:00		신왕]	-		-		
4n 1	1.19	2.73	0.064	_	1.19	2.09	0.053		1.16	2.61	0.062		1.18	2.53	9.061		1.16	2.62	0.060	÷.,	1.21	2.25	0.058			-	с. <u>т</u> . с. с	-		
Aax 1	1.67	4.45	0.172		1.74	4.57	0.187	1	1,76	4.68	0.194	- 21	1.64	4.51	0.168	10	1.72	4.66	0.187	- 20	2.66	4.73	0.180	-	100	2	12	-		
leekly Su	umma	ary																												
/eekty Su	umma	ary unio		vel		QCon		Rain																						
/eekty Su	umma	unio (in)		vel (RJs)		QCon (MGD)		Rain (in)																						

Administrative Reports

Administrative reports include: Location Configuration, Location Event Configuration, Location Notification Configuration, Monitor Configuration, Notification Configuration, and User Tasks reports. Report availability is based on user permission levels.

All **Administrative** type reports can be downloaded in CSV format, and all except for the **User Tasks** report can be downloaded in PDF format.

Location Configuration Report

The **Location Configuration** report displays detailed configuration information for each location. The user can modify the Location and Report Options parameters.

	Default	•				G	ENERATE REPORT
				View Parameters			
				*			
							Z Download •
Q. Search							
ocation A							
ocation A 3C10	Monitoring Point Number	Location Type	Location Shape	Silt (in)	Hydraulic Coefficient	WGain	Height (in)
ocation 🛦	Monitoring Point Number	Location Type Pipe	Location Shape Pipe Round	Silt (in)	Hydraulic Coefficient	VGain 0.85	Height (in) 9.88
ocation & 9C10	Monitoring Point Number 1 Width (in)	Location Type Pipe Capacity (MGD)	Location Shape Pipe Round Associated Rain Gauge	Silt (in) Latitude	Hydraulic Coefficient Longitude	VGain 0.55 Elevation (ft)	Height (in) 9.88
ocation A	Monitoring Point Number 1 Weth (in) 9.85	Location Type Pipe Capacity (MG0)	Location Shape Pipe Round Associated Rain Gauge	Silt (ia) 	Hydraulic Coefficient Longitude 	VGain 0.85 Elevation (ft) 	Height (in) 9-88
ocation A	Monitoring Point Number 1 Weth (In) 5.55 Overflow	Location Type . Pipe Capacity (MGO) - Analysis Triggering Event	Location Shape Pipe Round Assoclated Rain Gauge - Analysis Rain Gauges	Silt (in) 	Hydraulic Coefficient Longitude High Depth Threshold (in)	VGain 0.86 Elevation (ft) - High High Threshold Activation Date	Height (in) 9-88 High High Threshold (in)
ncation A	Munitaring Point Number 1 Wéth (In) 5.85 Overflow No	Location Type Pipe Capacity (MGC) - Analysis Triggering Event -	Location Shape Pipe Round Associated Rain Gauge - Analysis Rain Gauges -	Silt (in) - Latitude - High Depth Threshold Activation Date -	Hydraulic Coefficient Longhude High Depth Threshold (in) 	VGəln 0.86 Elevation (ft) High High Threshold Activation Date -	Height (in) 9.89 High High Threshold (in)
Doction A	Monitoring Point Number 1. Width (In) 5.85 Overflow No Low Depth Threshold Activation Date	Location Type Pipe Capacity (MGO) - - Low Depth Threshold (in)	Location Shape Pipe Round Associated Rain Gauge - Analysis Rain Gauges -	Silt (in) Latitude High Depth Threshold Activation Date -	Hydraulic Coefficient Longhude High Depth Threshold (in) 	VGain 0.86 Elevation (R) High High Threshold Activation Date 	Height (in) 9.88 High High Threshold (in) ~

Location Event Configuration Reports

The **Location Event Configuration** report identifies the locations for which events have been configured and includes the name of the location, type of event, and name and a brief description of the notification group, when applicable. An option is available to display only those events to which notification groups have not been designated. The standard report includes only those events to which a notification group has been assigned. The user can modify the Location, Event Types, and Report Options parameters.

🖹 Report - Locati	on Event Configurati	on		
	Default	•		GENERATE REPORT
-			View Parameters	
			*	± Download -
Q Search				
Location		Event Type		Raise Alarm
BC10		High High		Yes
BC10		High Level		Yes
Showing 2 of 2 records				

Location Notification Configuration Reports

The **Location Notification Configuration** report indicates the locations about which FlowView has been configured to provide notification to a group when an event or an associated alarm or return to normal occurs. It includes the name of the location, type of event, name and a brief description of the notification group, and whether notification will occur in the case of an alarm or an event or when conditions return to normal following an event. An option is available to display the locations associated with events for which a notification group has not been designated. The user can modify Location, Event Types, Report Options, and Notification Groups parameters.

🖹 Report - Locati	on Notification Configuration				
	Default	•		GENERATE REPORT	
-		View Parame ♦	ters	🛃 Download 👻	
Q Search					
Location A	Event Type	Notification Group	Notification Group Description	Active Event	Return To Normal Event
Dynamic_50499	High Level	QC Test Notification Group	Janice	Yes	No
Dynamic_50499(2)	High Level	QC Test Notification Group	Janice	Yes	No
echo_9121	High Level	QC Test SDM		Yes	No
FST-IM_50172	High Level	QC Test Notification Group	Janice	Yes	No
FST-IM_50172	Dry Overflow	QC Test Notification Group	Janice	Yes	No

Monitor Configuration Reports

The **Monitor Configuration** report offers detailed configuration information for each location, including the location type, monitor series and serial number, active status, name of LIF, geographical coordinates, elevation, manhole depth, pipe type and dimensions, label on map, installation address, communication type and IP address/phone number, data and time for next scheduled collect, and the interval at which scheduled data collections occur. The user can modify the Locations and Report Options Parameters.

🗄 Report - Moni	tor Configurat	ion						
	Default		•					GENERATE REPORT
				View	Parameters			
					*			
								🛃 Download 👻
O found								
Q Search								
ocation A								
C10		Location Type	Monitor Series	Serial Number	Is Active	LIF File Name		
C10		Location Type Physical	Monitor Series Triton	Serial Number 20354	Is Active Yes	LIF File Name		
210		Location Type Physical Latitude	Monitor Series Triton Longitude	Serial Number 20354 Elevation	Is Active Yes Manhole Depth	LIF File Name Description	Map Display Label	
C10		Location Type Physical Latitude 	Monitor Series Triton Longitude	Serial Number 20354 Elevation 	Is Active Yes Manhole Depth 	LIF File Name Description Circular (9.88 in H)	Map Display Label BAKERC01	
100		Location Type Physical Latitude Street Address	Monitor Series Triton Longitude City	Serial Number 20354 Elevation State	Is Active Yes Manhole Depth Zip	LIF File Name Description Circular (9.88 in H)	Map Display Label BAKERC01	
CIO		Location Type Physical Latitude Street Address 	Monitor Series Triton Longitude City 	Serial Number 20354 Elevation State 	Is Active Yes Manhole Depth Zip 	LIF File Name Description Circular (9.88 in H)	Map Display Label BAKERC01	
C10		Location Type Physical Latitude Street Address Communication Type	Monitor Series Triton Longitude - City - Communication Address	Serial Number 20354 Elevation State 	Is Active Yes Manhole Depth Zip 	LIF File Name Description Circular (9.88 in H)	Map Display Label BAKERC01	
C10		Location Type Physical Latitude Street Address Communication Type TCPIP	Monitor Series Triton Longitude - City - Communication Address 166.219.19.192	Serial Number 20354 Elevation State 	Is Active Yes Manhole Depth Zip 	LIF File Name	Map Display Label BAKERC01	
900		Location Type Physical Latitude Street Address Communication Type TCPIP Next Data Collect	Monitor Series Triton Longitude - City - Communication Address 166.219.19.192 Schedule Interval	Serial Number 20354 Elevation State 	Is Active Yes Manhole Depth Zip 	LIF File Name	Map Display Label BAKERC01	

Notification Configuration Reports

The **Notification Configuration** report identifies the groups that are assigned to receive notification when an alarm or an event occurs or when conditions return to normal following an even at any of the locations in the currently selected database. It includes the name and a brief description of the group, and, as an option, the specific contacts within the notification group and their individual contact information (i.e. email addresses). The user can modify the Notification Groups and Report Options parameters.

🖹 Report - Notifi	cation Configuration			
	Default	•		GENERATE REPORT
			View Parameters	
			*	. Download
Q Search				
Group Name 🛦			Group Description	
QC Test Notification Group			Janice	
QC Test SDM				
Showing 2 of 2 records				

User Tasks Reports

The **User Tasks** report lists user initiated on-demand data collects and data exports. The user can modify the Task Type, Date/Time, and Task Status parameters.

ł	Report - User Tasks								
		Default	•			GENERATE REPORT			
	-			View Pr	arameters				
					*	Download -			
						E Download •			
QS	earch		_						
	Status	Percentage Complete	Туре	Name	Start Date	Completed Date	Completion Status		
-	Completed	100	Data Export	Export	03/02/2017 09:21	03/02/2017 09:21	Complete No Errors		
	Completed	100	-	Export	-	03/02/2017 23:59	Complete No Errors		
	ing 1 of 1 records								

<u>Vault</u>					
🚯 Dashboard	🛱 Events	• Locations	Reports	🗁 Vault	🌣 Manage

The **Vault** screen is accessed through the **Vault** tab in the top left of the FlowView interface. The **Vault** provides the capability for documents to be stored at the project and location level, and provides easy search functionality. The **Vault** supports the upload of files up to 100 MB in size.

🗁 Files	
Search Folder Search All Files	
➢ Root	
B OCTest2 Documents	
DIETG Test	
TEST FOLDER 2	
▷ Locations	
BC10 Documents	
Complaints	
Dynamic_50499 Documents	
Dynamic_50499(2) Documents	
ECHO_0006 Documents	
Echo_1104M Documents	A
ECHO_9107 Documents	A
Echo_9110 Documents	A
▷ Echo_9115 Documents	A
Created by Lynne	
Echo_9121 Documents	A
Echo_9131 Documents	A
Echo_HSV1T_9103 Documents	a
Echo_HSV3_9112 Documents	A
Echo_SB15_9105 Documents	A
Echo_SB16_9101 Documents	
DFST-IM_50172 Documents	₽ ∨
PIECT IM E0173/3) Decuments	۵
🔒 - Can't Edi	it Folder

Manage Image Image Image Image Image Image

The **Manage** screen is accessed through the **Manage** tab at the top of the FlowView Interface. It allows users, based on user permission levels, to edit or delete **Templates** and **Map Views** for the project.

0	Manage			
	Templates			
	Map Views			
				-

Templates

Manage - Templates								
Q Search								
Template Name 🔺	Report Type	Accessibility	Description	Subscribed	Next Generation Date	Interval	Creator	Action
Battery Summary	Battery Summary	Shared			03/02/2017 11:25	1 Day	Lynne Reynolds	e 🖻
Build 2418 Fully Loaded Hydrograph	Hydrograph	Shared					Janice Wright	e 🖻
Collect Sumary Report	Collect Summary	Shared			03/02/2017 04:00	1 Day	Lynne Reynolds	e 🖻
H annotation and UpDepth, Mo to Date	Hydrograph	Shared					Janice Wright	e 🖻
informal	Hydrograph	Shared					Carol Luciano	🖋 💼
PRODUCTION - Battery Summary-jw test	Battery Summary	Shared			03/02/2017 03:00	1 Day	Janice Wright	e 🖻
RAIN Only Data Export	Data Export	Shared	-				Janice Wright	🖋 🖻
Template test with UpDepth1 and rawvel	Hydrograph	Shared	past 30, updepth, rawvel		-		Janice Wright	e 🖻
Updepth and rawvel	Hydrograph	Shared	-				Janice Wright	🖋 🖻

Navigating to the **Manage – Templates** page opens the table shown above. It displays the templates that have been created for the project, and provides information such as **Report Type** associated with the template, **Accessibility, Description**, whether or not the template has been **Subscribed** to, **Next Generation Date** (if applicable), **Interval, Creator**, and **Action**. The **Action** column allows users with the appropriate privileges to edit or delete templates.

Map Views

🌣 Manage - Map Views					
Q Search					
Map View Name 🔺	Description	Coordinates	Zoom	Default	Action
Default Map	-	34.71750788, -86.61287917	12	Yes	
Demo Sites	Default	34.70395659, -86.6376257	12	No	e 🖻
Lynne's Map View	-	34.71750788, -86.61287917	12	No	e 🖉
QC Test Locs	Default Map	34.74205572, -86.5861	14	No	e 🖻
stlouis	-	38.64196657, -90.18068923	11	No	e 🖉

Navigating to the **Manage – Map Views** page opens the table shown above. It displays the map views that have been created for the project, and provides information such as **Description**, **Coordinates**, **Zoom** level, whether or not the view is set to the **Default**, and **Action**. The **Action** column allows users with the appropriate privileges to edit or delete templates.

<u>Glossary</u>

Acknowledged Alarm	An acknowledged alarm is an escalated event to which an operator has responded, but the alarm has not vet cleared.
AIRTEMP_3	Air temperature measured by the Surface Combo or Smart Depth sensor of the TRITON+ .
Alarm	An alarm represents an escalated event. An alarm can exist in one of three states: alarming, acknowledged, or cleared.
BIN File Export	This event indicates that a user has exported a BIN file for a location. A BIN file is the raw data file collected from an ADS monitor.
BIN File Import	This event indicates that a user has imported a BIN file for a location. A BIN file is the raw data file collected from an ADS monitor.
BTYVOLT	Monitor battery voltage recorded at midnight or during a monitor activation.
CHECK_PD	This is an MLI generated entity. CHECK_PD indicates a potential problem with the pressure sensor based on the difference between pressure depth and either <i>UpDEPTH</i> or <i>SDEPTH</i> . "1" indicates that there is a problem. "0" indicates the problem no longer exists.
CHECK_UD	This is an MLI generated entity. CHECK_UD indicates a potential problem with the ultrasonic sensor (<i>UpDEPTH</i> or <i>SDEPTH</i> depending on MLI configuration) based on signal strength. "1" indicates there is a problem. "0" indicates the problem no longer exists.
CHECK_UT	This is an MLI generated entity. CHECK_UT indicates a potential problem with the ultrasonic temperature sensor in the Peak Combo or the Surface Combo (<i>WATERTEMP</i> or <i>AIRTEMP</i> depending on MLI configuration). It is either reading extremely high or low. "1" indicates there is a problem. "0" indicates the problem no longer exists.
CHECK_V	This is an MLI generated entity. CHECK_V indicates a potential problem with the velocity sensor (<i>PEAKVEL</i> or <i>SURFACEVEL</i> depending on the MLI configuration) based signal strength, the number of repeat sensor firings, or a diversion from expected daily flow patterns. "1" indicates there is a problem. "0" indicates the problem no longer exists.
Cleared Alarm	A cleared alarm is an event that has returned to a normal status or has been manually cleared by a user.
Composite Location	A composite location totals the flow data for two or more monitoring points. The composite location is not a physical location within the collection system, but rather a mathematical totaling of multiple monitoring locations to obtain the desired flow information. Composite locations are often defined when multiple monitored lines enter a wastewater treatment plant, and a total flow into the plant is needed. Composite locations are defined in the system by users with appropriate permissions.
CROSS_VELOCITY	This entity logs an event when the difference between at least two of the velocity readings at the monitoring point exceeds the corresponding tolerance configured in MLI under the Cross Check Combo Sensors section.
CROSS_DEPTH	This entity logs an event when the different between at least two of the depth readings at the monitoring point exceeds the corresponding tolerance configured in MLI under the Cross Check Combo Sensors section.
Cryout	A cryout occurs when a flow, level, or rain gauge monitor calls (unsolicited) into the FlowView system to report an event that is occurring at the location.
Data Collect	A data collect refers to the process of retrieving data readings from flow monitors and rain gauges and storing the data in the FlowView database. FlowView allows both on-demand and scheduled data collects.
DEPTH_A1	Depth data recorded by the Analog Input 1 device.

DEPTH_A2	Depth data recorded by the Analog Input 2 device.
DFINAL	Finalized depth data imported from an ADS Profile database.
DMLI_AVG	Averaged UNIDEPTH data recorded by the monitor based on the number of readings to average as defined on the MLI device.
DThreshold	The daily depth threshold established by MLI and recorded in the monitor. It is configured by the user as flows x% below the expected flow depth at the monitoring point. When flows fall below <i>DTHRESHOLD</i> , a Low Flow alarm will be generated. "1" indicates there is a problem. "0" indicates the problem no longer exists.
Entity	An entity is a data type representing a measurement, condition, or event corresponding to flow conditions, hardware status, or other performance information involving the flow monitoring network. FlowView collects this data from the flow monitors and rain gauges and logs and stores this information to the database for processing, viewing, and analysis.
Escalation Chain	An escalation chain is an ordered list of escalation groups to receive notification of an alarm generated by a particular location or location group. Each group in the chain receives notification of an alarm after a user-specified time interval passes if the alarm remains unacknowledged.
Escalation Group	An escalation group consists of a collection of contacts to receive notification (via email, text message, etc.) if an alarm is not acknowledged within a specific period of time. Contacts are not required to be registered users.
Escalation Interval	An escalation interval refers to the number of minutes that an alarm must remain unacknowledged in order for the next escalation group in a chain to receive notification.
Event	Events occur when measurements or data exceed specific thresholds or when special conditions are present or occur.
FLOW1	Flow rate calculated and stored at the monitor level measured by the sensors designated in the FLOW1 device.
FLOW2	Flow rate calculated and stored at the monitor level measured by the sensors designated in the FLOW2 device.
Flow Loss	This event indicates that the flow expected at the monitor is below historically expected flow rates (<i>QTHRESHOLD</i>) or flow depth (<i>DTHRESHOLD</i>).
Flow Monitor	A flow monitor measures open-channel flow in sanitary sewers, stormsewers, and other environments using sensor devices installed in a monitoring point in a pipe or manhole. One flow monitor can support up to two monitoring points.
FTP Export	This event indicates that FlowView has exported data to an FTP server.
FULL_PIPE	Alarm issued by a Long Range Depth sensor when flow levels reach the configured pipe height.
НС	The Hydraulic Coefficient $(\frac{\sqrt{s}}{n})$ used in the Manning equation to calculate flow rates and volume.
нібн_нібн	This is an MLI generated event when UNIDEPTH exceeds the HIGH HIGH threshold configured in Qstart . "1" is recorded when the user-defined threshold is exceeded. "0" is recorded for the TRITON+ when the flow depths drop 9.1% below the threshold and for the ECHO when flow depth is 2" below the threshold.
HIGH_LEVEL	This is an MLI generated event when UNIDEPTH exceeds the HIGH threshold configured in Qstart . "1" is recorded when the user-defined threshold is exceeded. "0" is recorded for the TRITON+ when the flow depths drop 9.1% below the threshold and for the ECHO when the flow depth is 2" below the threshold.
Hydrograph	A hydrograph is a graph that displays one or more data entities over a specified time period.

INTTEMP	This is the temperature of the ECHO monitor. Users have the option to store or not store this entity.
LIF Export	This event indicates a user has exported a Location Information File (LIF) for a location.
LIF Import	This event indicates a user has imported a LIF for a location.
Limit (Event)	An event limit refers to the threshold value that triggers an event or alarm.
Location	A location represents a monitor installed over a flume, in a manhole, in a pump station, or over a stream/riverbed to measure flow depth, velocity, and quantity, depending on the type of monitor installed. A location can also represent a rain gauge installation.
Location Group	A location group is a user-defined grouping of locations. The groups allow data collection to be performed and reports to be organized for similar locations.
LOW_BTY	This is an MLI generated event. "1" is recorded when the battery voltage drops below the low battery threshold of the monitor. "0" is recorded once the low battery has been replaced with a new battery.
Low_Flow	This is an alarm representing that a Flow Loss has been detected based on either a decrease in flow rate or flow depth. It is an MLI generated alarm based on an analysis of expected flow or depth patterns at the installed location. "1" is recorded when the Flow Loss alarm is active. "0" is recorded when flows rise above the flow loss threshold (<i>DTHRESHOLD</i> or <i>QTHRESHOLD</i>).
LOW_LEVEL	This is an alarm generated when flow levels drop below the user-defined Low Level threshold defined in the Alarms device. The Low Level Alarm is supported by ECHO monitors. "1" is recorded when a <i>Low Level</i> event has occurred. A "0" is recorded when flow levels rise above the threshold by 2".
LRDEPTH	This is the depth reading from the Long Range Depth Sensor.
Monitor – Collect Failed	This event indicates a failure occurred when an attempt was made to collect data from a monitor.
Monitor – Collect Successful	This event indicates that data has been collected successfully from a monitor by FlowView.
Monitoring Point	A monitoring point represents the physical location at which the sensors are installed in a sewer pipe to measure the flow, or where rain gauges are installed for measuring rainfall amounts.
Notification Email	This event indicates a notification email has been sent to the selected user(s).
Notification SMS Text	This event indicates a notification SMS text message has been sent by FlowView to the selected user(s).
OVERFLOW	An alarm that is generated when an ECHO monitor detects that flow level has exceeded the manhole depth. "1" is recorded when the manhole depth has been exceeded. "0" is recorded when flow levels are 2" below the manhole depth.
Overflow – Dry Dry Overflow	This indicates that a cryout has been received by FlowView indicating that a defined threshold at an overflow location has been exceeded. Collected rain data indicates that no significant rainfall has been measured, and therefore the overflow has been designated a dry-weather overflow.
Overflow – Wet Wet Overflow	This indicates that a cryout has been received by FlowView indicating that a defined threshold at an overflow location has been exceeded. Collected rain data indicates that sufficient rainfall has been measured, meeting the criteria set for wet-weather, and therefore the overflow has been designated a wet-weather overflow.
Overflow Monitoring Point	An overflow monitoring point measures flow transferring from one sewerage basin to another or exiting the collection system completely.
PDEPTH_1	Flow depth measured by the Peak Combo 1 sensor's pressure sensor configured on.

PDEPTH_2	Generated when a Peak Combo 2 sensor's pressure sensor is configured.
PDEPTH_3	Surcharge depth measured by the Surface Combo Sensor's pressure sensor.
PEAKVEL_1	Peak Velocity measured by the Peak Combo 1 sensor.
PEAKVEL_2	Peak Velocity measured by the Peak Combo 2 sensor.
PEAKVEL_3	Peak Velocity measured by the Surface Combo Sensor during surcharged conditions.
PRESSK	This represents the value applied automatically to the pressure depth reading to compensate for differences between the pressure depth and ultrasonic depth measurements taken at the same monitoring point.
Profile Export	This event indicates that a Profile has been exported.
Profile Import	This event indicates that a Profile has been imported.
Q_A1	Flow rate (quantity) recorded by the Analog Input 1 device as configured in Qstart .
Q_A2	Flow rate (quantity) recorded by the Analog Input 2 device as configured in Qstart .
QCOLEBROOK	Flow rate (quantity) generated using the Colebrook-White equation.
QCONTINUITY	Flow rate (quantity) generated using the continuity equation.
QFINAL	Finalized flow rate (quantity) data imported from a Profile database.
QFLUME	Flow rate (quantity) generated when the monitor's depth device is installed in a flume installation type.
QLOOKUP	Flow rate (quantity) generated when the installation is using a depth-to- discharge table to calculate flow rates.
QMANNING	Flow rate (quantity) generated using the Manning equation.
QMLI_AVG	Flow rate (quantity) calculated and stored in the monitor using flows averaged based on the Readings to Average field in the Low Flow Alarm section of the MLI device.
QTHRESHOLD	The daily flow threshold established by MLI and recorded in the monitor. It is configured by the user as flows x% below the expected flow rate at the monitoring point. When flows fall below <i>QTHRESHOLD</i> , a Low Flow alarm will be generated. "1" indicates there is a problem. "0" indicates the problem no longer exists.
QWEIR	Flow rate (quantity) based on the specified weir equation for the monitoring point.
RAIN	Represents the total amount of rain recorded by the rain gauge during the sampling interval of the monitor.
Rain Exceeding Threshold	The event that is logged in FlowView when a rain gauge records/reports Rain_Alert alarm.
RAIN_ALERT	An alarm generated by a rain gauge when rain intensities have exceeded a user- defined threshold defined in Qstart on the Rain device screen.
Rain Gauge	Rain gauges record the amount of rainfall that occurs over a specific rain event using a collection device called a tipping bucket. The tipping bucket contains a calibrated rainfall collection mechanism that tips once it receives a user-defined quantity of rainfall. The number of tips recorded throughout a given interval provides the total rainfall for the rain event. This data can be used in inflow and infiltration calculations to measure rainfall intensity.
RAINI	Represents the amount of rain fallen during a user-defined Rain Intensity Interval in Qstart on the Rain device screen. It is a rolling rain total based on the Rain Intensity Interval.
RAINI_UK	The intensity of rainfall that occurs over the time period specified in Rain Intensity Interval based on the standards identified in the United Kingdom.
RAINTIPS	Records the time a RainAlert III recorded a tip of the tipping bucket.

RAWVEL	Peak Velocity recorded by the sensor selected in the "Combo Sensor to Use" field on the MLI device. This is used to calculate average velocity for flow quantification.
ROUGHNESS	Represents the roughness of the pipe at the monitoring point. Roughness is used in the Manning and Colebrook-White equations to calculate flow rate.
SAMPLES	Represents the number of triggers to a water quality sampler during the monitor sampling (recording) interval.
Scattergraph	A scattergraph is a type of graph that shows a depth data type in relation to a velocity data type.
Scheduled Data Collect	This represents the number of days, hours, or minutes the system waits before automatically collecting data from a configured flow monitor or rain gauge and storing the data in the database.
SDEPTH_3	Flow depth measured by the Surface Combo or Smart Depth sensor.
SILT	Silt refers to dirt and debris that may collect at the bottom of a pipe over time. This value is entered manually in Qstart .
SLOPE	The slope of the pipe where the sensors are installed (Monitoring Point).
SUBMERGED	An entity that is created when Submersion Sensor goes under water, indicating that the manhole may be overtopping. "1" is recorded when active, and "0" when not active.
System Acknowledge Alarm	This event indicates that the FlowView system has acknowledged an alarm.
System Cleared Alarm	This event indicates that the FlowView system has cleared an alarm.
SURFACEVEL_3	Velocity of the surface of the flow measured by the Surface Combo Sensor.
ТЕМР	Reports of the temperature of the Long Range Depth 1 Sensor.
TEMP2	Reports of the temperature of the Long Range Depth 2 Sensor.
TILT	An alarm generated when an ECHO monitor is no longer level. "1" represents that the alarm condition is active; "0" represents that the ECHO has returned to a level installation. When the ECHO is in TILT depth readings will hold on the last pre-tilt reading and no High , High High , or Low Level alarms will be generated. Monitor service is required.
TOTFLOW1	Total Flow registered on Monitoring Point 1 since monitor activation. Values will run from 0 to 100,000 and rollover to 0 when 100,000 is reached.
TOTFLOW2	Total Flow registered on Monitoring Point 2 since monitor activation. Values will run from 0 to 100,000 and rollover to 0 when 100,000 is reached.
Unacknowledged Alarm	An unacknowledged alarm represents an active alarm that has not been acknowledged. It is displayed in the interface in a "red" state.
UNIDEPTH	This is an MLI generated entity and represents the depth of flow measured by the sensor selected in the "Combo Sensor to Use" field on the MLI device. This is used to calculate the wetted area for flow quantification.
UpDEPTH_1	This is the depth of flow measured by the Peak Combo 1 sensor upward ultrasonic sensor.
UpDEPTH_2	This is the depth of flow measured by the Peak Combo 2 sensor upward ultrasonic sensor.
User Acknowledge Alarm	This event indicates that a user has acknowledged an alarm.
User Cleared Alarm	This event indicates that a user has manually cleared an alarm.
User Group	A user group is a defined set of users to which permissions are assigned. The groups allow permissions to be set up easily for a number of users who perform similar functions.
User Login	This event indicates a user has logged into FlowView.
User Logoff	This event indicates a user has logged out of FlowView.
VEL_A1	Represents the velocity recorded by the Analog Input 1 device if configured to measure velocity.

VEL_A2	Represents the velocity recorded by the Analog Input 2 device if configured to measure velocity.
VELOCITY	Average velocity calculated by multiplying RAWVEL times VGain.
VFINAL	Finalized velocity data imported from a Profile database.
VGAIN	The factor set in Qstart and applied to RAWVEL to calculate average velocity.
Voltage – Low Battery	This even indicates that the battery voltage has fallen below an acceptable level.
Voltage – Low Wireless Battery	This event indicates that the battery voltage in the device used for wireless communication with the monitor or rain gauge has fallen below the specified threshold.
WATERTEMP_1	This is the temperature measured by the Peak Combo 1 sensor.
WATERTEMP 2	This is the temperature measured by the Peak Combo 2 sensor.