

## Apollo Data Visualization

The Apollo Data Visualization application runs on GeoCloud servers to provide continuous graphical access to instrumentation data. Apollo hides its powerful functionality behind a simple, easy-to-use interface.

## Apollo Advantages

**Web Access:** Apollo provides access to data wherever there is an internet connection. It works with web browsers on desktops, tablets, and smartphones.

**Continuous Availability:** Apollo operates 24 hours a day, automating the repetitive tasks of importing and processing readings, checking for alarms, and generating plots and reports.

**Consistent Calculations:** Apollo processes data according to instructions stored in the project database. Changes to instructions take effect immediately across all planviews, graphs, and reports.

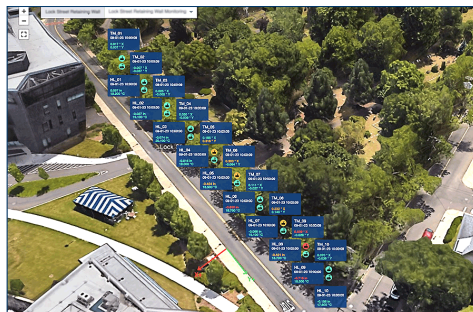
**Consistent Presentations:** Planviews, graphs, and reports are preconfigured to ensure consistent scales, terminology, and sensor selection. Values are updated automatically.

**Wide Compatibility:** Specialized processing agents provide rapid handling of incoming data and extend Apollo's compatibility to almost any type of monitoring device.

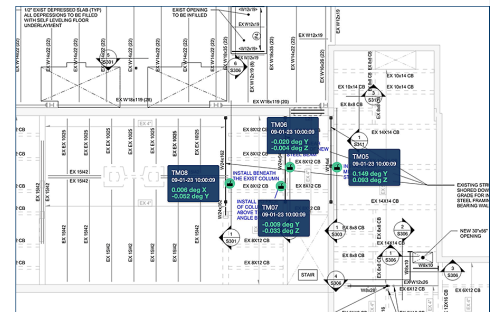
**Centralized Data Storage:** Apollo stores all types of measurements in the project database, maintaining traceability, eliminating data silos, and simplifying access.



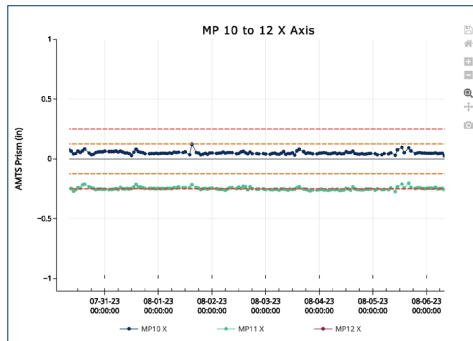
Planviews show sensors and readings superimposed on a base layer.



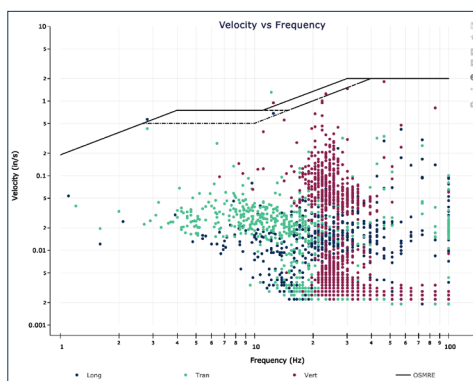
Planview with Satellite Map as Base Layer



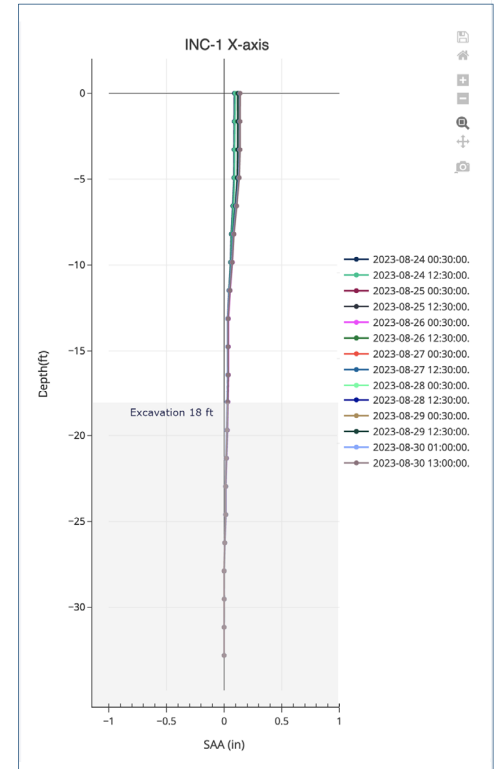
Planview with CAD Drawing as Base Layer



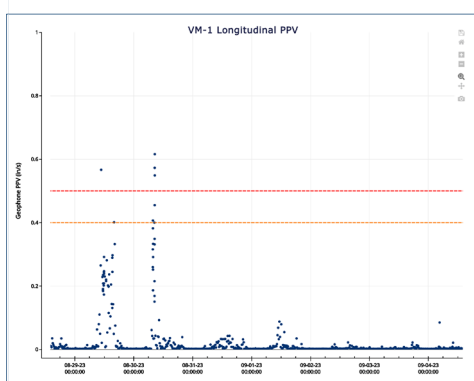
Trend Plot



USBM OSMRE Plot



Displacement Profile Plot

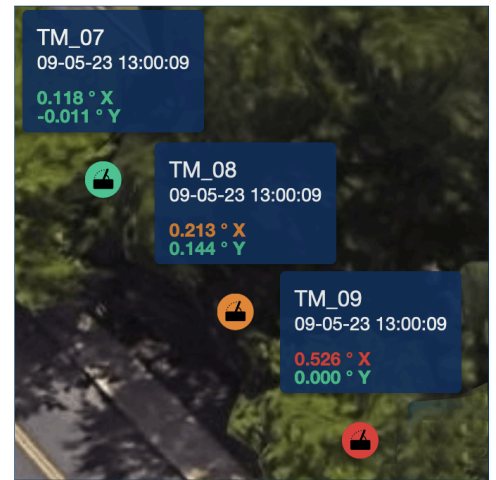


PPV Histogram



**Simple Interface:** Apollo displays your project when you log in. Choose Planviews or Project Graphs to view current readings and alarm status.

**Easy Viewing:** All planviews can be zoomed as needed. Map base layers can be toggled between satellite view and street view for extra clarity.



**Alarm Status:** Sensors and readings change color to show alarm status. Click a reading to call up a trend plot. The time stamp turns red if data is missing.



**Project Graphs** are preconfigured to customer requirements. These one-click graphs display instantly and are also used in reports.

**Custom Graphs** are useful for adhoc investigations. Sensors and alarm limits can be toggled on and off for both project and custom graphs.



**Inspection:** A data readout, as shown above, follows movement of the cursor. Icons at the top right provide zoom and export options.

[GEO INSTRUMENTS](#)

[Projects](#)
[Planviews](#)
[Alarms](#)
[Project Graphs](#)
[Create Custom Graph](#)
[File Manager](#)
[Export Data](#)

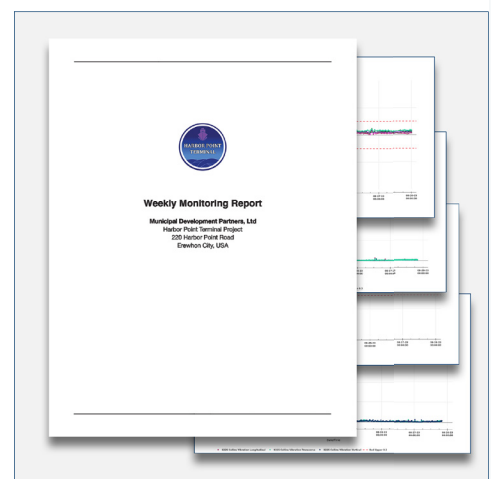
Show 10 entries

[Acknowledge Alarms](#)
 Filter Not Acknowledged

Timestamp	Sensor	Limit	Equation	Value	Acknowledged	Timestamp	User	Comment
08-30-23 08:33:17	VM-1 VertPPV	Amber Upper 0.4	VALUE > 0.4	0.442	<span style="color: red;">✖</span>			
08-30-23 08:33:12	VM-1 VertPPV	Amber Upper 0.4	VALUE > 0.4	0.442	<span style="color: red;">✖</span>			
08-30-23 08:32:13	VM-1 LongPPV	Red Upper 0.5	VALUE > 0.5	0.573	<span style="color: red;">✖</span>			
08-30-23 08:32:13	VM-1 TranPPV	Red Upper 0.5	VALUE > 0.5	0.557	<span style="color: red;">✖</span>			
08-30-23 08:32:08	VM-1 LongPPV	Red Upper 0.5	VALUE > 0.5	0.573	<span style="color: red;">✖</span>			
08-30-23 08:32:08	VM-1 TranPPV	Red Upper 0.5	VALUE > 0.5	0.557	<span style="color: red;">✖</span>			
08-30-23 08:31:10	VM-1 LongPPV	Amber Upper 0.4	VALUE > 0.4	0.455	<span style="color: red;">✖</span>			
08-30-23 08:31:10	VM-1 VertPPV	Red Upper 0.5	VALUE > 0.5	0.504	<span style="color: red;">✖</span>			

**Alarms:** Apollo supports multiple alarm thresholds. Alarms are triggered when values cross a threshold. Watchdog alarms trigger when data fails to arrive.

Alarms are logged in an alarm table, displayed on planviews, and shown in graphs. Alerts are sent to specified personnel by email and text message.



**Reports:** Apollo reports are preconfigured and automatically generated and distributed by email at scheduled intervals.