

About PHOENIX

The Department of Energy has partnered with the Pacific Northwest National Laboratory on PHOENIX, a family of spatially enabled web applications providing quick access to decades of valuable scientific data and insight through intuitive query, visualization, and analysis tools.

PNNL-Hanford Online ENvironmental Information eXchange provides a single access point to multiple data sets via standard web browsers. PHOENIX also provides data visualization tools and provides explanations of key data sets to aid understanding. PHOENIX applications are based on the innovative technology applied by the Pacific Northwest National Laboratory (PNNL) to access and visualize other environmental data sets at the Hanford Site.

By integrating previously isolated datasets and developing relevant visualization and analysis tools, PHOENIX applications are enabling DOE to discover new correlations hidden in legacy data, allowing them to more effectively address complex issues at Hanford.

About Remediation Systems

The Remediation Systems dashboard is designed to illustrate the technologies used in groundwater clean up, and their effect over time on the groundwater concentrations of various contaminants at the Hanford Site.

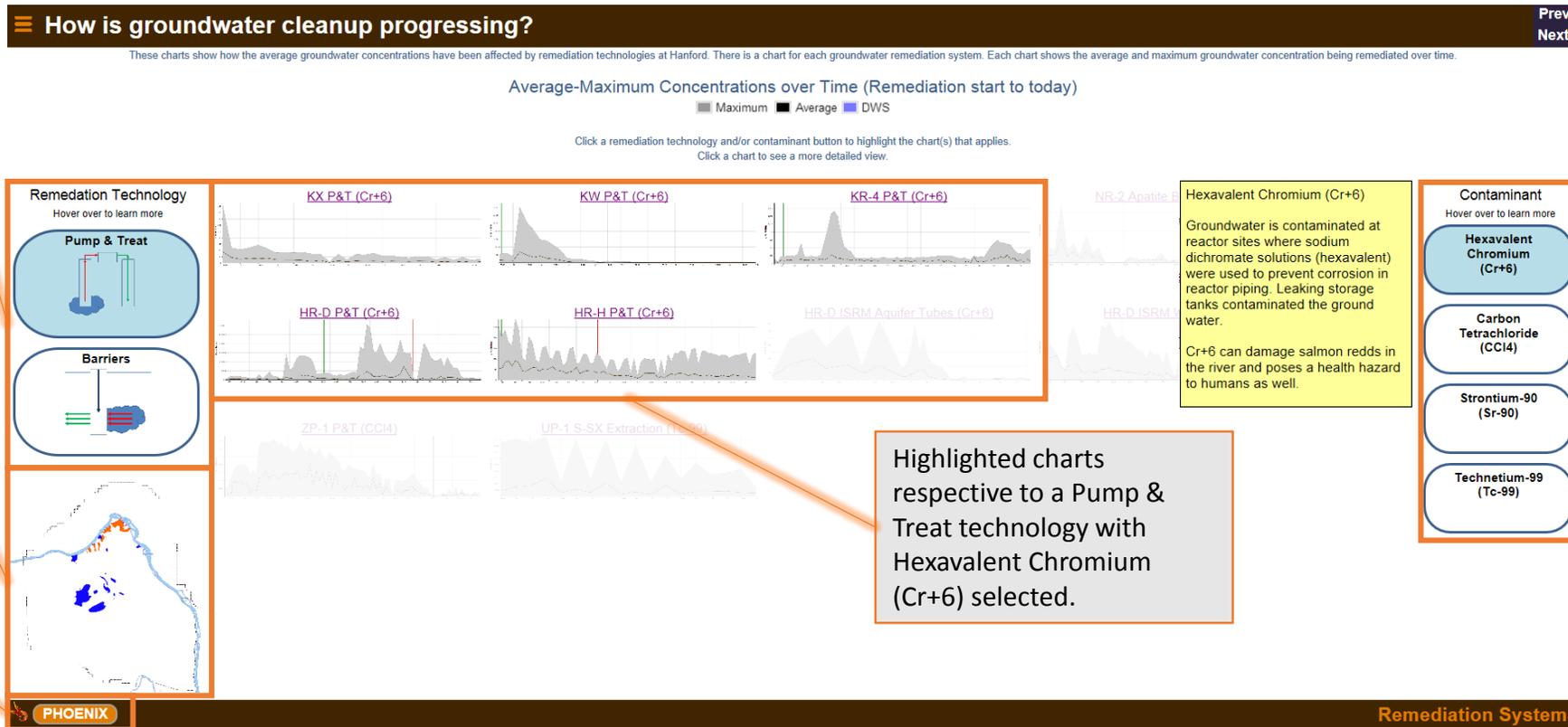
Various features built into the dashboard are designed to educate users about what contaminants are present and why they are a concern, what areas of the Hanford Site are affected by these contaminants, and how clean up technologies employed at the site work to remove these contaminants from the groundwater.

While the dashboard provides the entire message by itself, it provides interested users a means to explore the underlying data in increasing detail if they desire.

Questions, Comments, Concerns, Feedback?

Contact the PHOENIX team: PHOENIX@pnnl.gov

Click a Remediation Technology and/or Contaminant from the lists on the left and right hand side of the page. Charts corresponding to your selection will be highlighted. Click a chart to view more details.

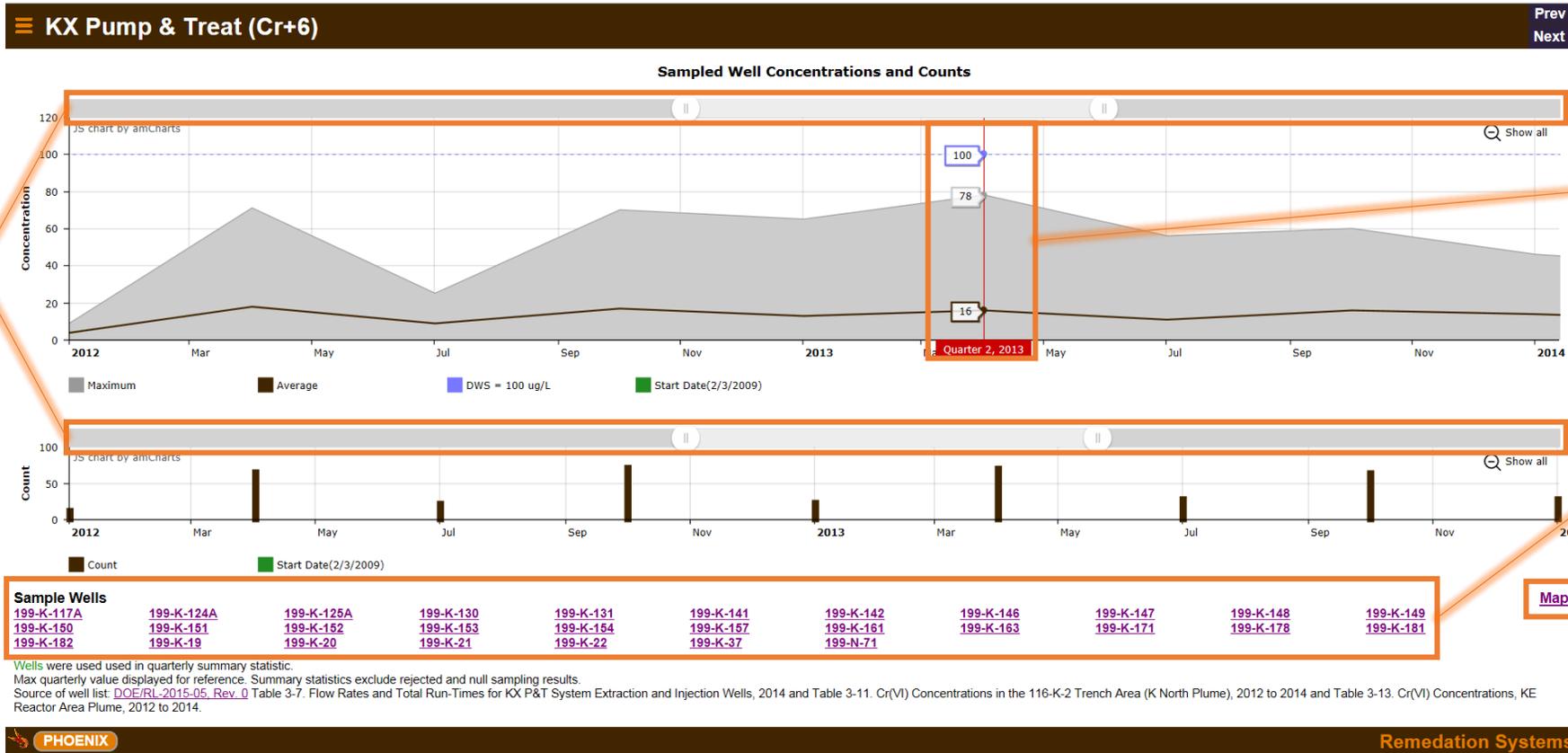


Remediation Technology buttons that show the respective charts when clicked. Hover over the button to view a short description.

Hanford map that automatically updates to show the groundwater plume extents of the selected contaminants.

Click to return to the PHOENIX gallery.

Contaminant buttons that show the corresponding charts when clicked. Hover over the button to view a description.



Adjust the chart's date x-axis by sliding the time slider at the top of the chart. The charts x-axes are linked, so adjusting one chart, will apply your adjustment to the other.

Mouse over the data in the chart to view the DWS value, Maximum value, Average value during that sampling quarter.

Sample Wells corresponding to the technology and/or contaminant selected. Click on the well link to view wells on a map with the selected well's sample results displayed in a table.

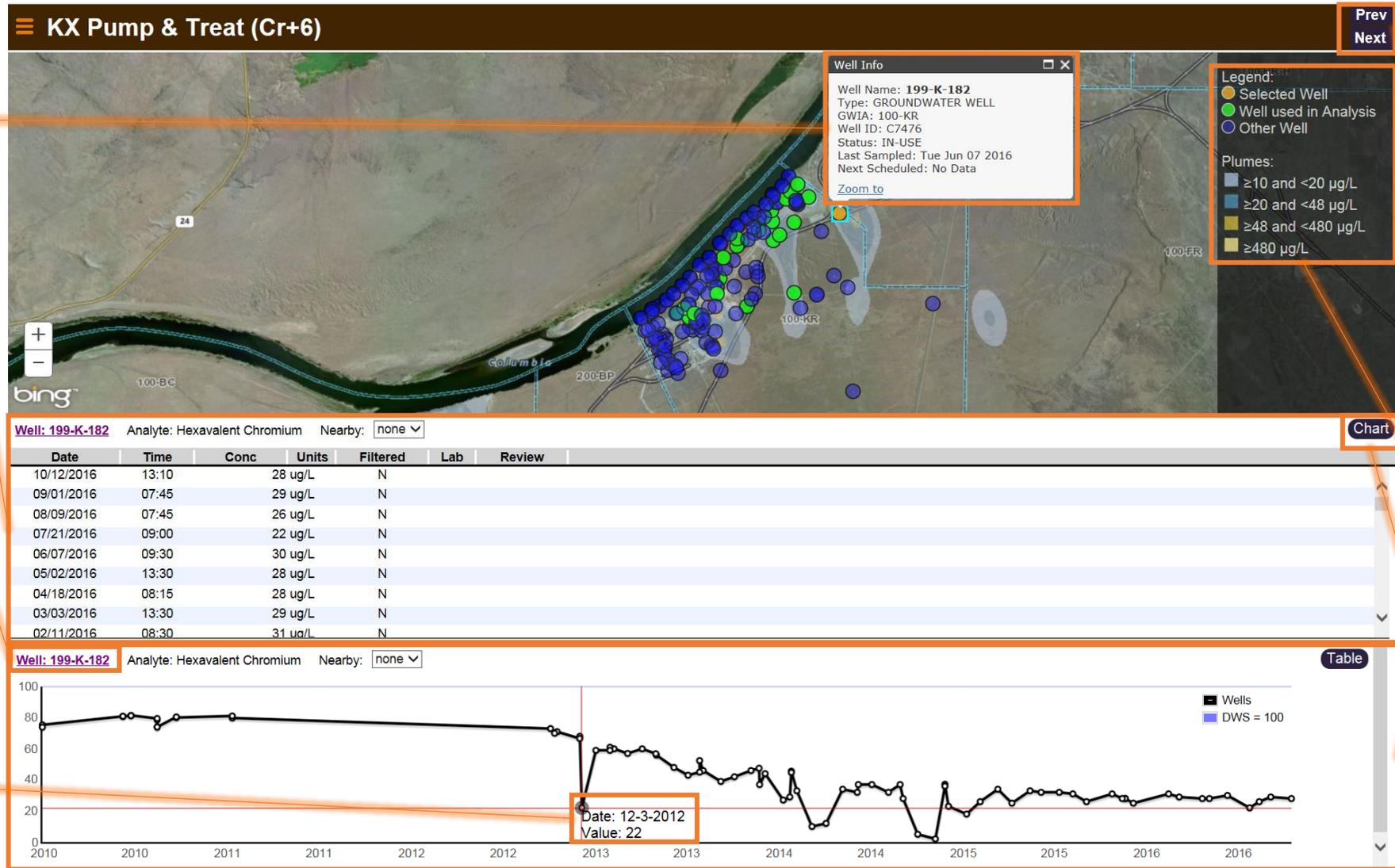
Click on the **Map** link to view the Sample Wells in a map view.

Click on a well on the map to view a **Well Info** pop-up and view the well's sampling concentrations data in the table/chart below. Click **Zoom to** link to zoom into the well.

Sample concentrations for the selected well. Click on another well in the map to view that well's data, or select a well in the **Nearby** drop-down.

Click on the **Well** link to view the well in the Well Dashboard application.

Click on a sample point in the chart to view the sample date and concentration value. The chart area above the Drinking Water Standard (DWS) is highlighted in blue.



KX Pump & Treat (Cr+6)

Well Info

Well Name: 199-K-182
Type: GROUNDWATER WELL
GWIA: 100-KR
Well ID: C7476
Status: IN-USE
Last Sampled: Tue Jun 07 2016
Next Scheduled: No Data

[Zoom to](#)

Legend:

- Selected Well
- Well used in Analysis
- Other Well

Plumes:

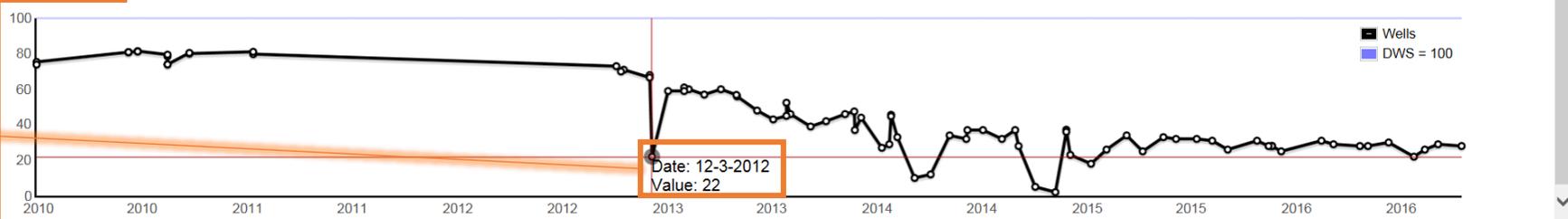
- ≥10 and <20 µg/L
- ≥20 and <48 µg/L
- ≥48 and <480 µg/L
- ≥480 µg/L

Well: 199-K-182 Analyte: Hexavalent Chromium Nearby: none

Date	Time	Conc	Units	Filtered	Lab	Review
10/12/2016	13:10	28	ug/L	N		
09/01/2016	07:45	29	ug/L	N		
08/09/2016	07:45	26	ug/L	N		
07/21/2016	09:00	22	ug/L	N		
06/07/2016	09:30	30	ug/L	N		
05/02/2016	13:30	28	ug/L	N		
04/18/2016	08:15	28	ug/L	N		
03/03/2016	13:30	29	ug/L	N		
02/11/2016	08:30	31	ug/L	N		

Chart

Well: 199-K-182 Analyte: Hexavalent Chromium Nearby: none



Date: 12-3-2012
Value: 22

Click **Prev** to return to the previous page (Sampled Well Concentrations and Counts chart). Click **Next** to send current well list to other Well applications, such as Well Dashboard, Well Comparison Explorer, or Well Contaminant Explorer.

Map legend showing the well type colors and groundwater plume classes.

Click **Chart** to view the data in a chart.

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