

### ***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 Groundwater Plume Animator***

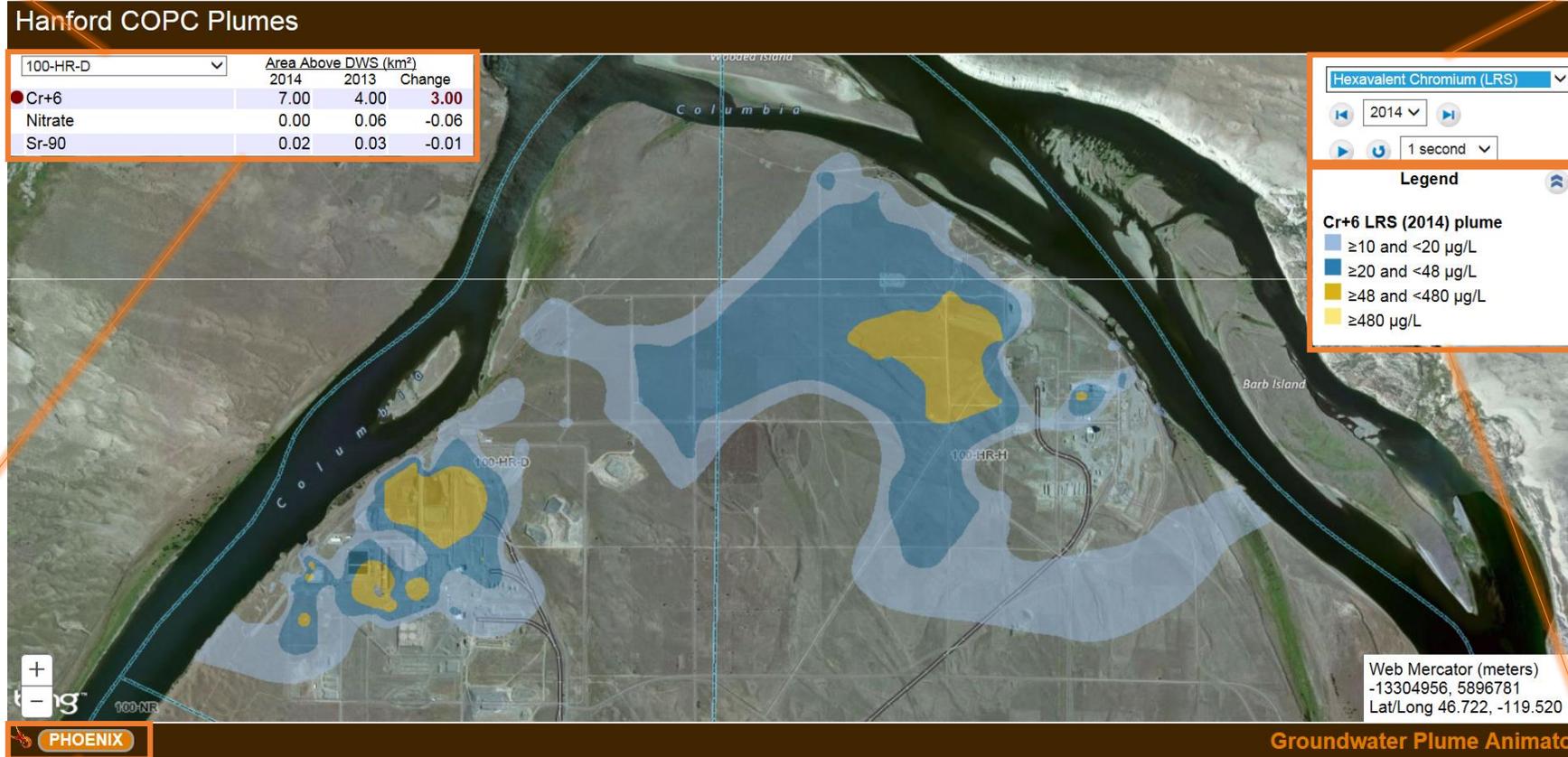
Plume Status shows the extents through time of the groundwater plumes of contaminants of potential concern (COPC) found on the Hanford site. The application allows animation of the plume movements through time, or the user can manually step through all years or select a single year to view. Additionally, the application allows users to look at the entire Hanford site or select a particular groundwater interest area. For each selectable region, the application tabulates the area above the drinking water standard for each COPC and compares it to the previous year's value.

The plumes found in this application go back to 1993 and are provided by CH2M Hill Plateau Remediation Contractor, who produced them in the course of authoring the Annual Hanford Groundwater report.

### ***Questions, Comments, Concerns, Feedback?***

Contact the PHOENIX team: [PHOENIX@pnnl.gov](mailto:PHOENIX@pnnl.gov)

Select the groundwater interest area (GWIA) to view the groundwater plumes for this specific area (the map will zoom to the area extents).



Choosing a GWIA updates the table with the area above the groundwater standard reported by the most recent annual groundwater report for the contaminants of interest. Areas with an increase in plume area above the standard are displayed in red.

Click the “PHOENIX” icon to return to the application gallery.

Select an analyte to view associated groundwater plumes.

Select the plume year to view plumes for that specific year. Click the “forward” and “backward” icons to scroll through the plumes in sequential order.

Choose how long each plume is visible on the map for. Click the “play” icon to play the plume animations beginning with the oldest plume. Click the “refresh” icon to continuously play the plumes.

The legend shows the plume concentration scale and gradations for each year.

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