PHOENIX

Well Dashboard – User Guide

Pacific Northwest NATIONAL LABORATORY

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 Well Dashboard

Well Dashboard provides a single dashboard of information about a well. The Well Dashboard provides well attributes, well sampling history, water levels and screen intervals and historic concentrations of the contaminants of potential concern (COPC) reported on in the Hanford Annual Groundwater report.

COPC concentrations are compared to relevant federal drinking water or MTCA standards and the user can drill down to more detailed charts and tables to further investigate the groundwater sampling history.

Questions, Comments, Concerns, Feedback?

Contact the PHOENIX team: PHOENIX@pnnl.gov

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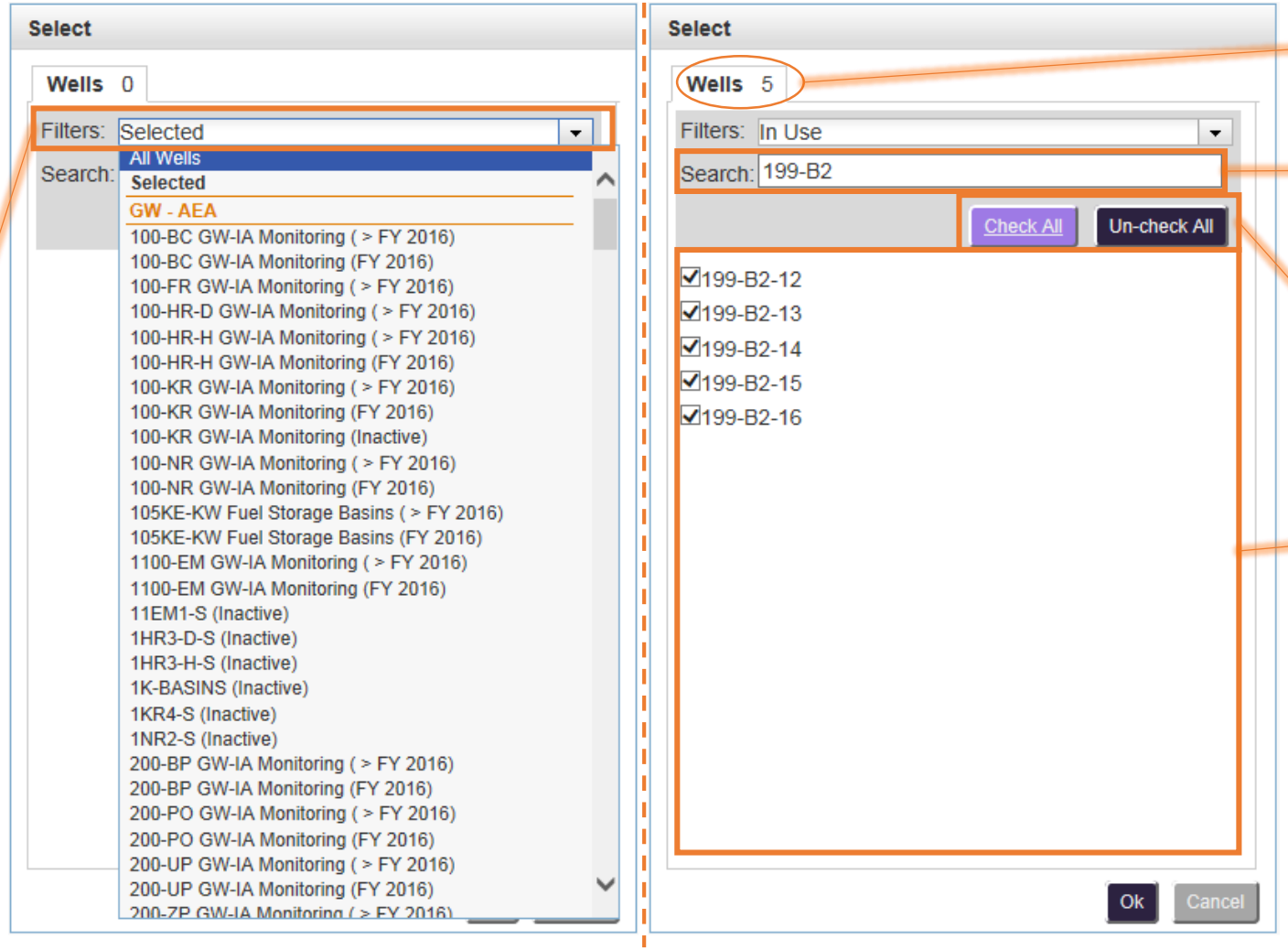
Well Select Dialog

When navigating from the Gallery, users are prompted to specify wells they would like to analyze using the Well Select dialog. When opening the Well Dashboard from a different application, the user's current well list will be used.

The Filters drop-down will filter the wells by pre-defined lists pulled directly from the Hanford Environmental Information System (HEIS)



Total number of selected wells.

Users can refine their results by specifying search text.

Click **Check All** to select all of the wells in the results list. Click **Un-check All** to un-select all of the selected wells in the results list.

Well results list. Wells can be selected individually by clicking the checkbox to the left of their name.

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This drop-down allows you to change wells. It contains all the wells selected using the well selection dialog

Search for a single well to view sampling results for.

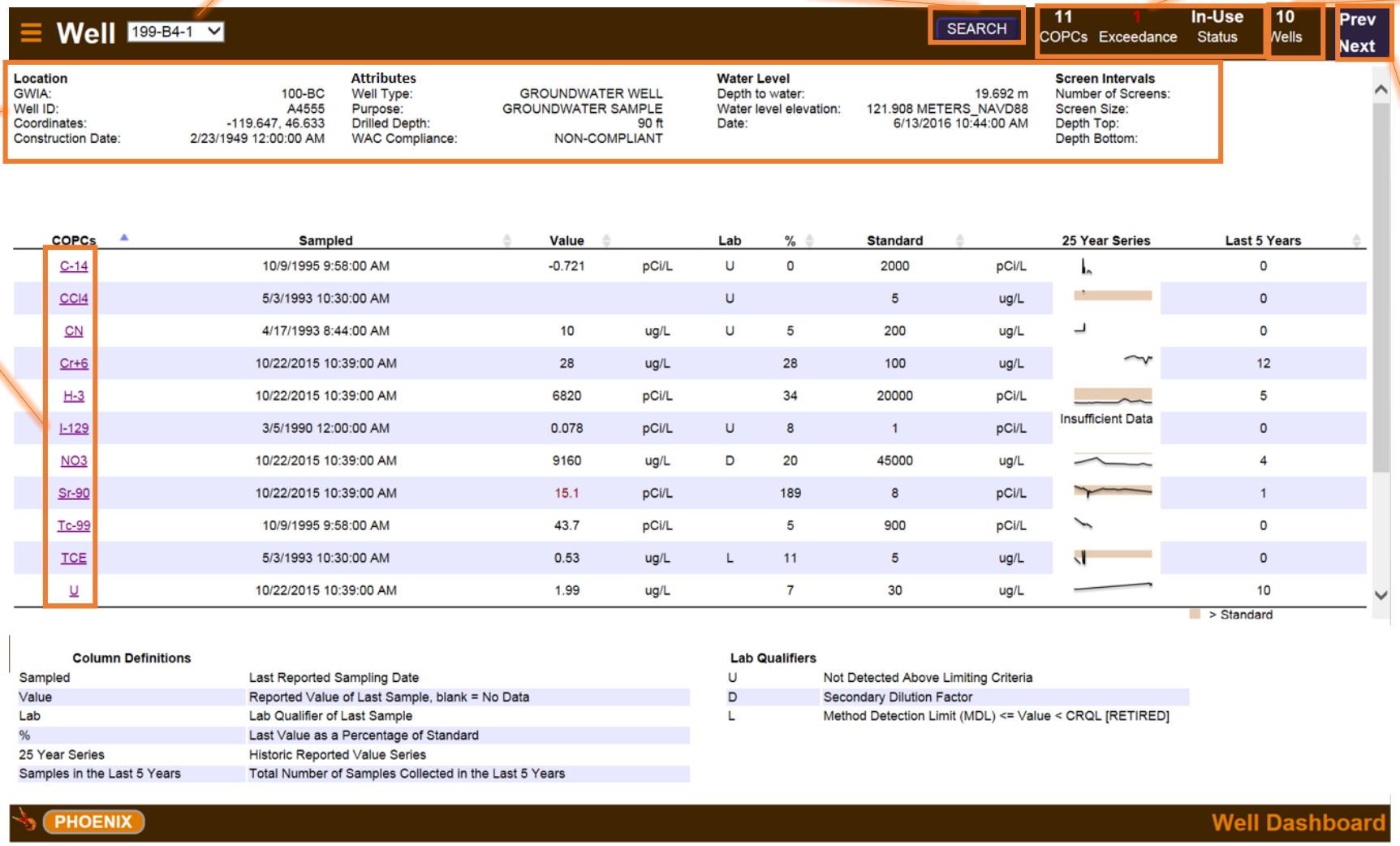
Summary information for the selected well.

Click here to open the well selection dialog

Attributes for the selected well are along the top.

Click on the Analyte name to view its detailed sampling history in this well in either tabular or chart form.

Use the **Prev** button to return to the previous application. Use the **Next** button to send your well to another application OR save your well selection to a user query (if logged in) by clicking **Save to Profile**.



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Sampling Results Dashboard

199-B4-1

Carbon-14 Contaminant	14762-75-5 CasId	2000 pCi/L DWS	11 Results	Prev

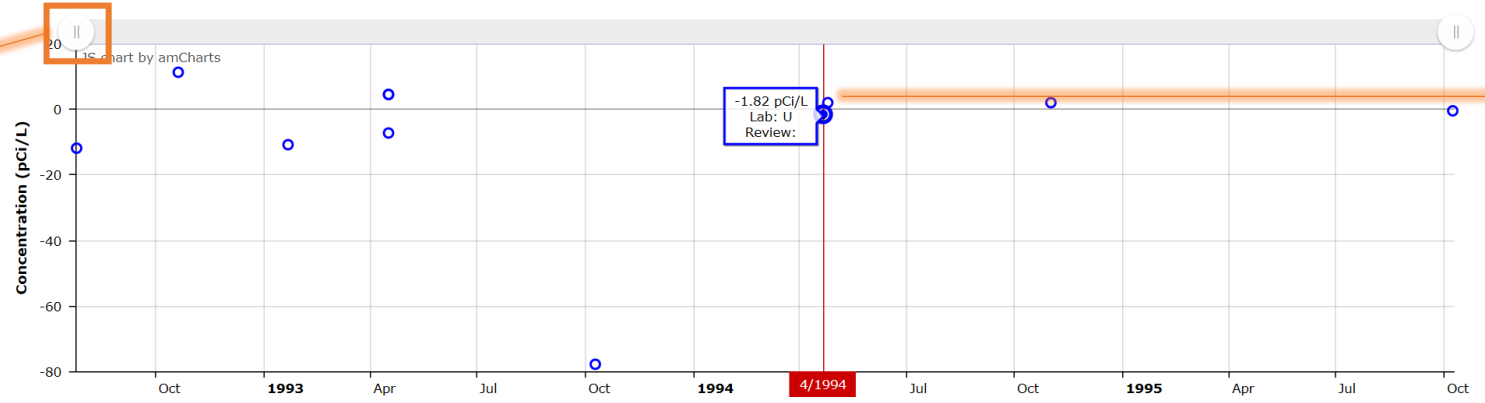
Chart

Sample Date	Value		Lab	Review	Filtered	Sample Number
10/9/1995 9:58:00 AM	-0.721	pCi/L	U		N	B0GNR1
11/1/1994 8:32:00 AM	1.94	pCi/L	U		N	B0D5Q4
4/25/1994 9:45:00 AM	1.96	pCi/L	U		N	B0BNY8
4/21/1994 9:41:00 AM	-1.82	pCi/L	U		N	B0BNY2
10/9/1993 8:27:00 AM	-78	pCi/L	UJ		N	B099G9
4/17/1993 8:44:00 AM	4.3	pCi/L	U		N	B08FD7
4/17/1993 8:44:00 AM	4.4	pCi/L	U		N	B08FH6
4/17/1993 8:44:00 AM	-7.4	pCi/L	U		N	B08FW0
1/21/1993 12:00:00 AM	-11	pCi/L	UJ		N	B07ZJ7
10/20/1992 12:00:00 AM	11	pCi/L	U		N	B07K71
7/25/1992 12:00:00 AM	-12	pCi/L	UX		N	B070K7

199-B4-1

Carbon-14 Contaminant	14762-75-5 CasId	2000 pCi/L DWS	11 Results	Prev

Table



Summary information.

Click to view chart (shown below).

Click to view table (shown above).

Adjust the slider bar to zoom in or out of the sampling timespan.

Scroll over or click on a sampling point to view the sample data and date the sample was taken.

Data with a “U” lab-qualifier are shown with a hollow circle, data without a “U” lab-qualifier are shown with a filled circle.

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