

Power BI



Power BI Tips – Beyond the Basics

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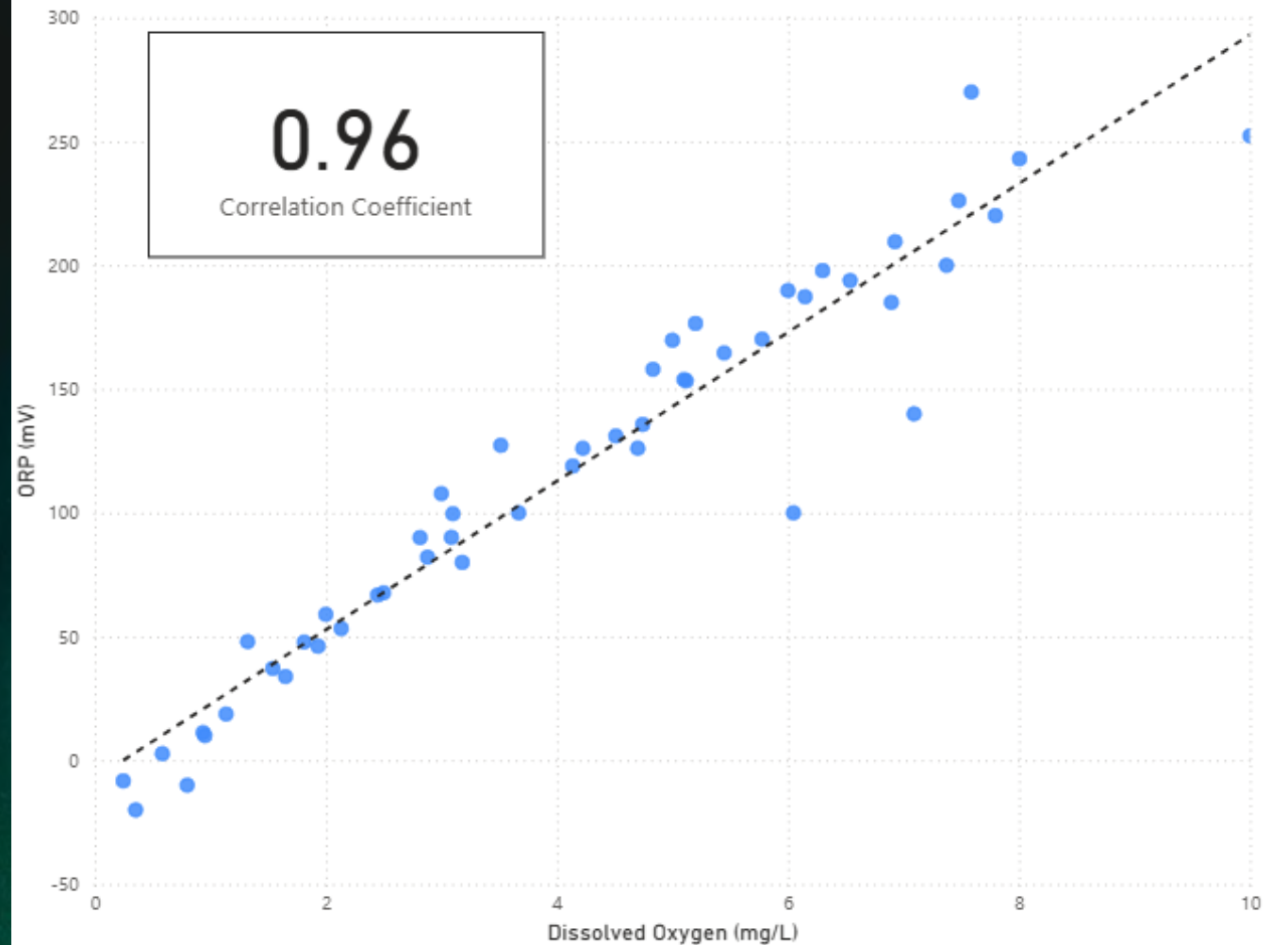
Today's Demo will explore:

1. Calculation of a correlation coefficient (r) via DAX to add it to a chart with a linear trend line
2. Custom sort analytes in a visual, useful for viewing degradation products closely associated with site specific COCs using a pie chart visual
3. Using maps to display trends or regulatory exceedances by:
 2. Using location color symbology to depict regulatory exceedances or trend directions.
 3. Allowing users to view a time series chart of well data when hovering over a location, including visualization of non-detect results

Example 1 – Coefficient Correlation and Trend Line

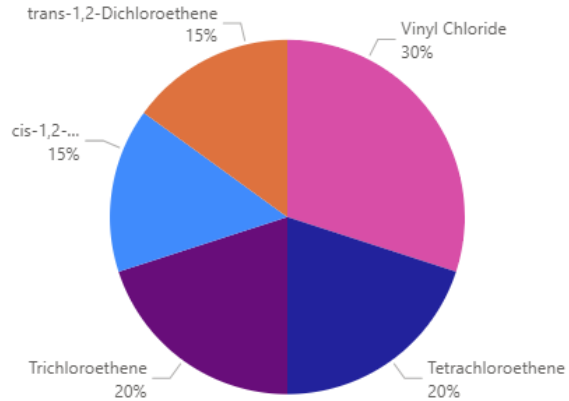
1. Load in data
2. Prepare the data (confirm data types are set correctly)
3. Create scatter plot in 'Report View'
4. Select dataset, define correlation coefficient using 'New Measure' tool and enter DAX expression (in slide notes)
5. Add 'Card' visualization to display correlation coefficient
6. Add trend line to scatter plot: select scatter plot -> 'Analytics' under Visualizations window (looks like a magnifying glass), Trend Line

Example 1: Dissolved Oxygen vs ORP

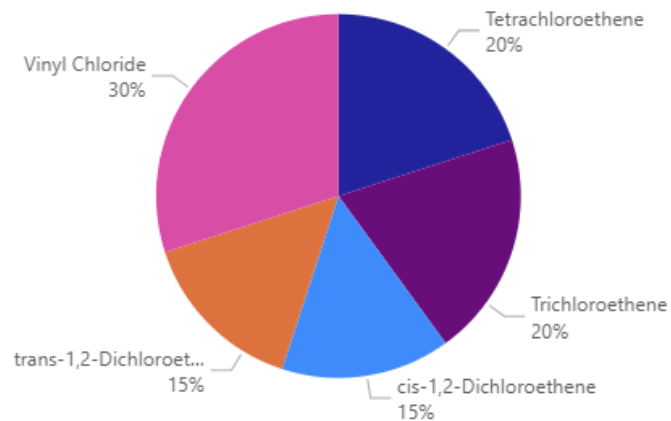


Example 2 – Custom Sort Analytes

Pie chart with no sort



Pie chart with sort

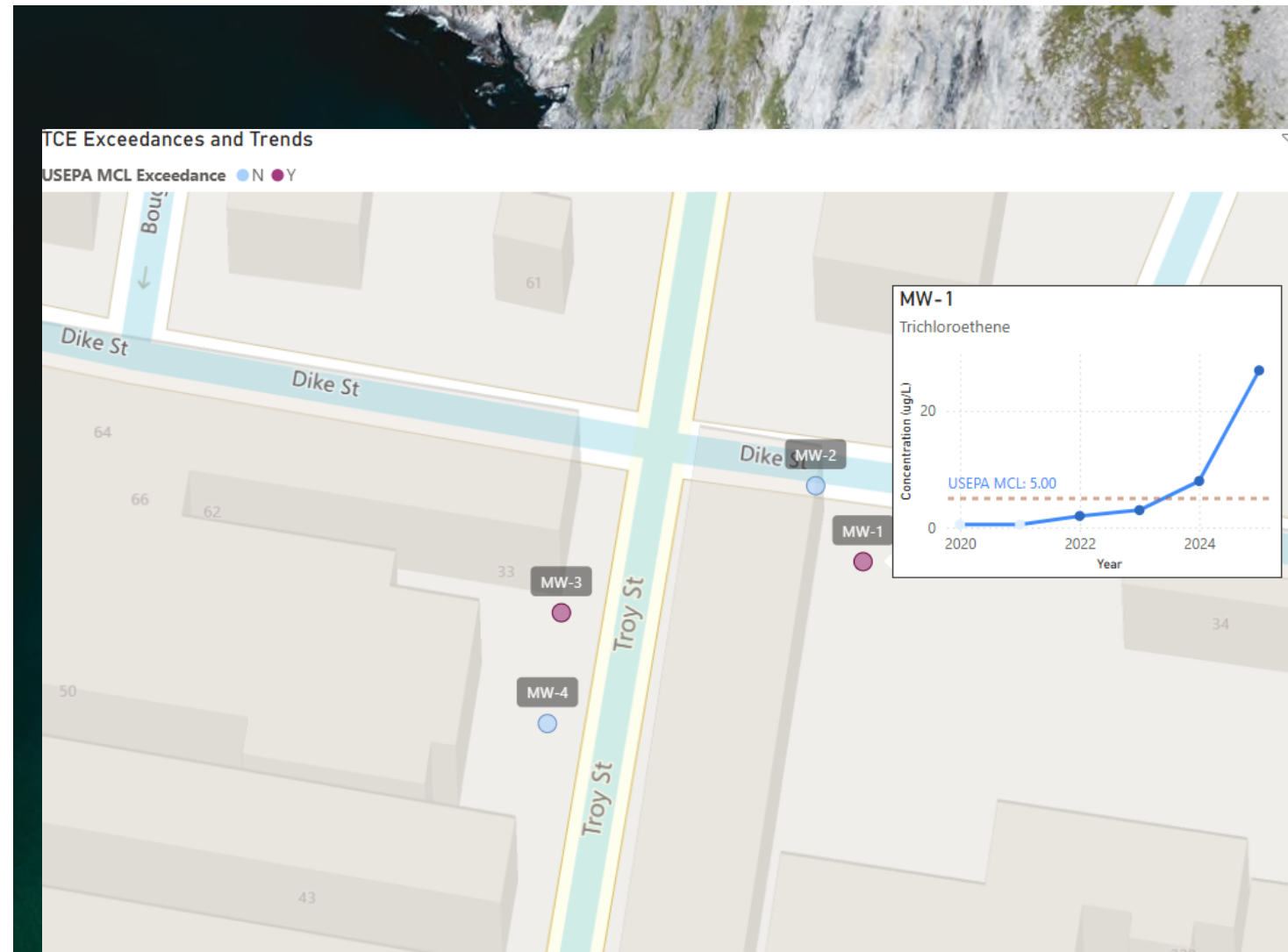


To create a chart with a custom sort:

- Load data and check data types
- Go to Table view
- Highlight column for custom sort
- Select 'Sort by column' and select sorting variable
- Create visual(s)!

Example 3 – display trends/exceedances in map

1. Load/prepare data
2. Create map in Report view and populate with locations, coordinates
3. In 'Format Visual' menu for map, go to conditional formatting and set rules for trend categories
4. Create ToolTip report and make line graph
 1. To change ND points, change line graph to bar chart and change Bar colors to Rules of 'DetectedResult'
 2. In Report Format -> Page Information, allow as Tooltip and rename
 3. In main visual (map), go to General format -> ToolTips -> Select Tooltip you created





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Questions?