RBDMS ENVIRONMENTAL

A DIGEST

WHAT IS RBDMS ENVIRONMENTAL?

For the Agency:

- A set of tools for
    - Managing laboratory analytical and field data for all environmental matrices.
    - Receiving and vetting electronic data deliverables (EDDs) from industry.
    - Analyzing data through various statistical and charting output formats and integrated GIS.
    - Alerting scientists when laboratories report sample results that exceed acceptable limits for specific parameters are submitted.
    - Displaying monitoring data from multiple sources and agencies
    - Used by Oil/Gas and water agencies

For the Industry:

- A website for uploading, saving as draft, validating, and submitting EDDs from laboratories to the agency for review under secured login.
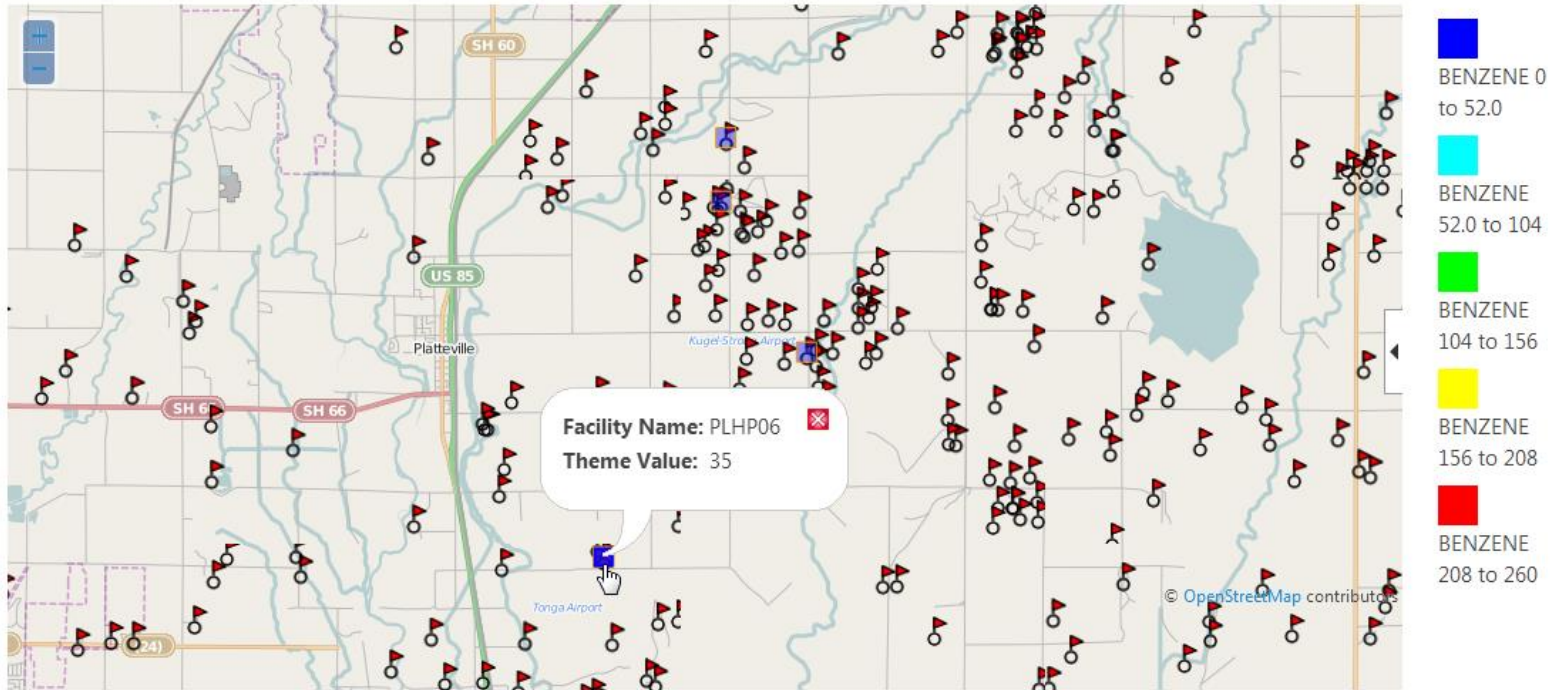
For the Public:

- A single location to view data vetted by and at the discretion of the agency.

USING RBDMS ENVIRONMENTAL: GIS

Theme Map:

USING RBDMS ENVIRONMENTAL: REPORT FORMATS

Pivot table:

- Multi-paging, sortable
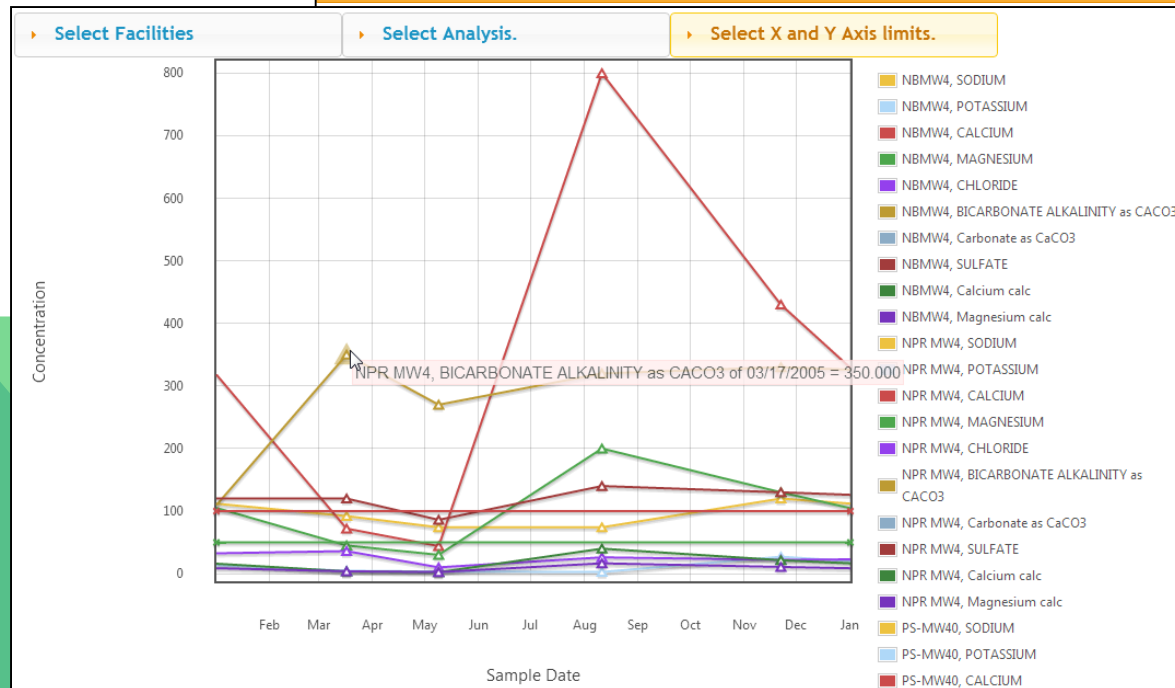- Exceedances bolded
- .Csv export to RockWorks

FacilityName	Sample Date	Latitude	Longitude	SODIUM	POTASSIUM	CALCIUM	MAGNESIUM	CHLORIDE
PS-MW42	11/09/2009	39.517385	-108.196356	62.0	1.00	**160**	**52.0**	310
PS-MW42	05/12/2010	39.517385	-108.196356	51.0	0.975	**120**	38.0	230
PS-MW41	11/09/2009	39.516832	-108.198344	96.0	1.20	**130**	46.0	300
PS-MW41	05/12/2010	39.516832	-108.198344	50.0	0.895	87.0	28.5	155
PS-MW40	11/09/2009	39.516879	-108.199133	280	3.30	**190**	**80.0**	820
PS-MW40	05/12/2010	39.516879	-108.199133	200	1.90	92.0	38.5	425
NPR MW4	12/01/2004	39.58391	-108.11629	120	17.0	**420**	**130**	31.0
NPR MW4	03/17/2005	39.58391	-108.11629	92.0	4.50	72.0	45.0	36.0
NPR MW4	05/09/2005	39.58391	-108.11629	74.0	3.40	44.0	30.0	10.0
NPR MW4	08/11/2005	39.58391	-108.11629	74.0	2.60	**800**	**200**	26.0

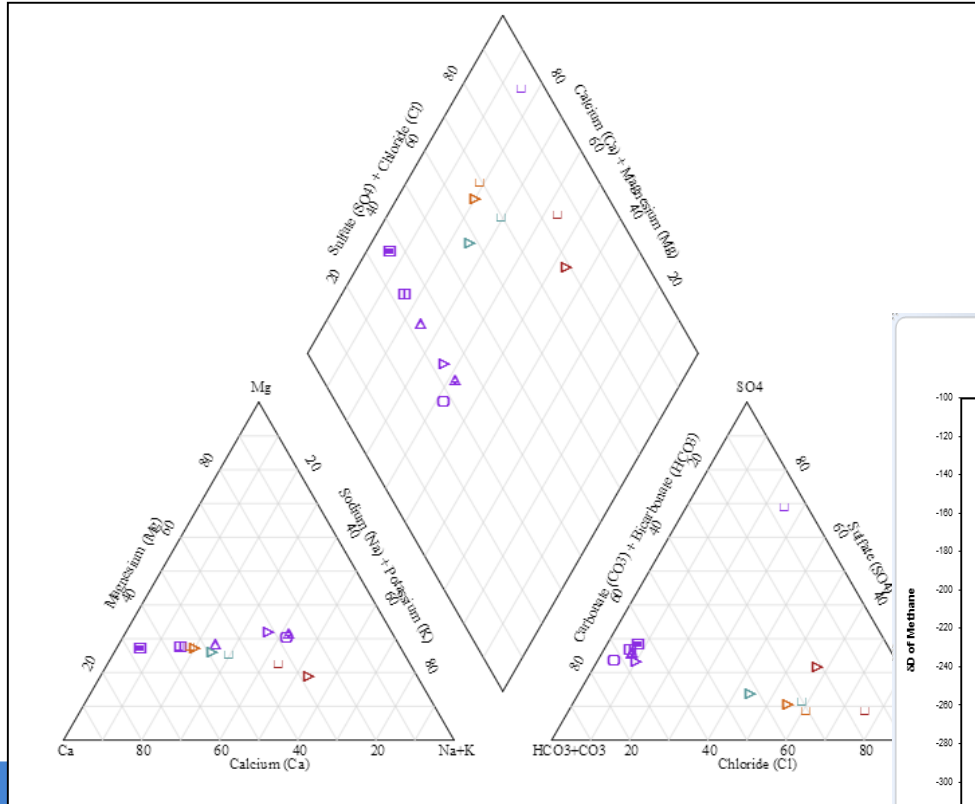Showing 1 to 10 of 16 entries

First Previous 1 **2** Next Last

Trend chart:

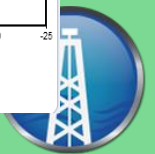- Show/Hide
  - Facilities
  - Analyses
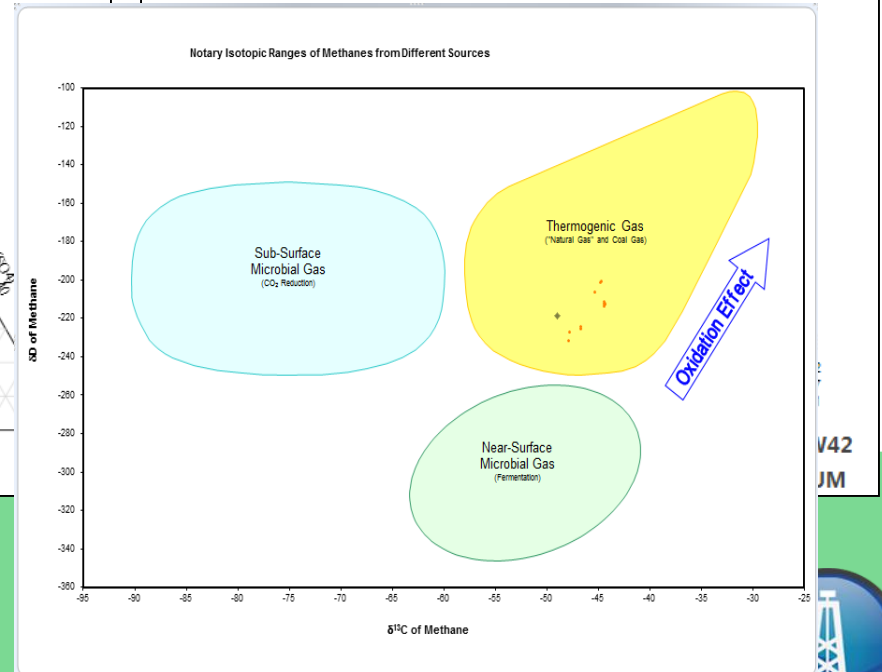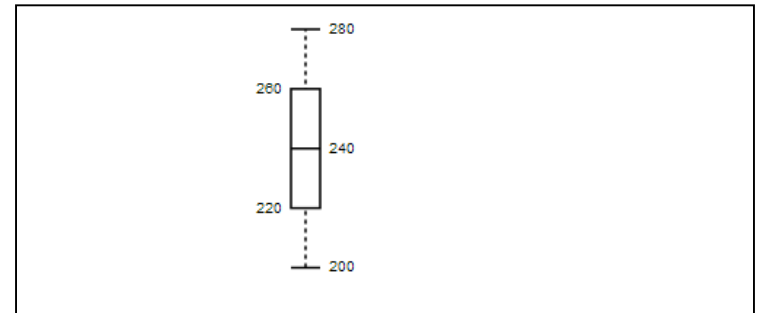- Selectable axes
- Tool tips

USING RBDMS ENVIRONMENTAL: REPORT FORMATS
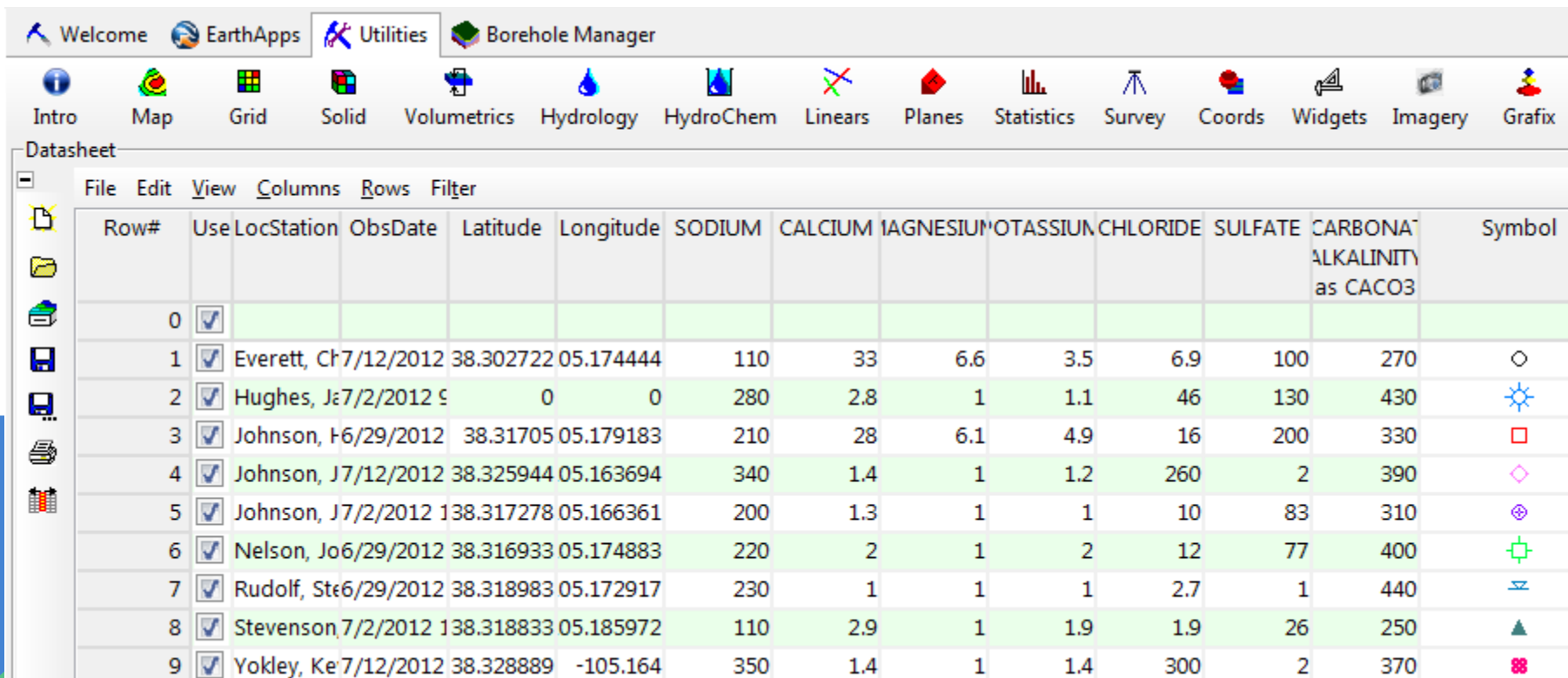
Piper diagram:

Box-whisker:

EXPORT TO ROCKWORKS

Export to .csv option on the pivot table report is compatible as an upload to RockWare RockWorks version 16 with several manual steps:

- Match columns to expected cations/anions.
- Specify symbology.
- Specify units for each column, although spreadsheet row 2 can be used to import units.

AUTOMATED ALERTS:

Alert types:

- CationAnion Ratio
- Exceedance
- Holding Time
- Missing Analysis
- Dissolved vs. Total
- Percent Difference from Baseline
- Sodium Absorption Ratio

To design a new alert:

- Write new function call (20 lines of isolated code).
- Add record to Alert table.
- Add Alert method; name must match the function call.

To subscribe to an alert:

- Specify projects, alert collections, frequency, and user name.

STATES USING ALL OR PORTIONS OF RBDMS ENVIRONMENTAL

- ✓ Colorado COGCC
- ✓ Wyoming DEQ
- ✓ Wyoming Oil and Gas
- ✓ Alabama Geological Survey
- ✓ California DOGGR

Coming in 2020

RBDMS Produced Water

- ✓ Quality/quantity
- ✓ Transportation: trucking/pipelines
- ✓ Storage, Disposal/disposition
- ✓ Norm, T-Norm