34North – West Yost Associates Web Mapping Discussion
for discussion purposes only

<u>Desired Abilities:</u>

- Shapefile or Geodatabase upload that we can use
    - Not necessarily our clients, the people using the maps… yet
- Changeable base maps (aerial, streets, etc.)
- Zoom/Pan options
- Click on features for details, documentation, or links to other websites
    - google directions for locations,
    - school websites,
    - program websites,
    - photos,
    - report PDFs,
    - planning documents,
    - "add to calendar" option for event locations,
    - etc.
- Turn layers on/off
- Web maps that can be inserted/embedded into our clients web pages
- Different levels of accessibility for different projects (see Petaluma water quality submission as an example), not just fully public or fully private
- Ability to link/reference other web maps within a map
    - ability to reference or move from one created web map to another given scale and panned location or if the web map would need to include the features from the other web maps, with a scale rule for display purposes
    - e.g. If we had a web map for the Delta, a web map for Yolo County, and a web map for the city of Woodland, could they be linked as we zoomed/panned around or would they need to be pre-combined as a new standalone web map?
- Mobile phone / wireless device compatibility
- Links to real-time federal or state stations
    - both as map features and links to their data
- Link to download/print PDF data form to fill out in the field
    - With a corresponding link to submit field data within the same form on the web map
- Link to submit water quality data
    - popup form that client staff can fill in and submit
    - submitted form goes to designated staff member for approval
    - approved data gets applied to the database for chart/report generation
- Link to view historical water quality data per station
    - Table
    - Charts
    - Report
- Ability, when needed, for people with access to the web maps to add to said web maps, graphical or real point/polygon features with text that contains their comments/edits/notes

West Yost's Web Mapping Capabilities:

Currently, West Yost is using Word Press to manage their web maps/atlases. Word Press is severely limited in its ability to handle special needs without extensive back end programming. West Yost has a good core GIS user group and competent IT professionals that know a variety of programming languages.

We would require some training on the software/procedures.

Example of Water Quality Monitoring Web Map Format:

We have a project with a school district. The teachers take their classes out to sample locations to collect water quality measurements. The classes then return to the classroom, open up the web map, click on the station they went to, click a link to submit the new water quality data, input their measurements, and submit to the designated educator for approval. Once the data has been approved, it can be included in a chart or tabular representation of all data collected at the site.

The current web map can be found here: http://watershedview.com/petaluma-watershed/

We would like to continue with this but improve upon it where:

- a data submittal form pops up that they can populate
- approved data per station for specified date range, or all dates, can be viewed/downloaded/printed as a chart or a table
  - date data collected and by what class per station
- approved data for all stations can be viewed/downloaded/printed as a report that contains a station map with labels, the classes involved, short description of the project, charts/tables of all data collected, etc.

Ultimately, the classrooms (students and teachers) are the audience. They use the entire process and resulting data for teaching/learning. We would like to make this professional yet user friendly to inspire the students and teach them without making it seem boring or confusing.