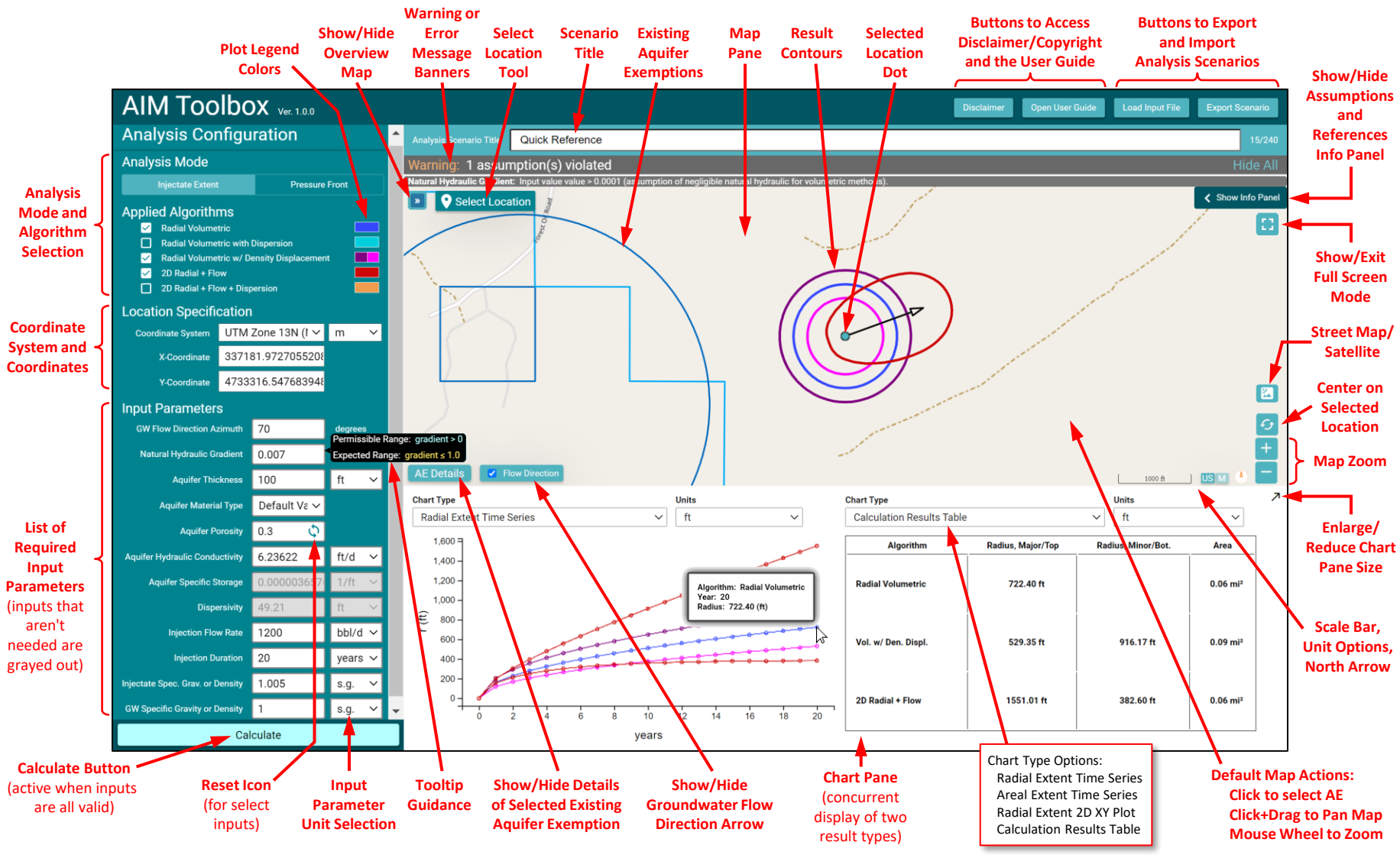
AIM Toolbox v. 1.0.0 – Quick Reference

AIM (Aquifer Injection Modeling) Toolbox to estimate the area impacted by underground injection operations, supporting technical aspects of planning, evaluation, and overseeing injection activities.



The individual analysis algorithms for injectate extent each represent specific approaches/assumptions regarding the nature of the subsurface and injection operations. However, it is intended that these analysis algorithms be used collectively to provide an overall assessment of the area potentially impacted by injection operations.

- Radial Volumetric – volumetric displacement of formation (aquifer) groundwater by injectate fluid
- Radial Volumetric with Dispersion – adds an estimate of injectate spread due to dispersion
- Radial Volumetric with Density Displacement – displacement without dispersion, but accounting for the density (specific gravity) difference between groundwater and the injectate fluid
- 2D Radial + Flow – displacement of formation groundwater by injectate fluid, accounting for groundwater flow
- 2D Radial + Flow + Dispersion – adds an estimate of injectate spread due to dispersion