Carolyn Schroeder 5.31.2023

**Notes** on updating old ROW and residential scenarios with new weather files. (9 scenarios)

California Red Legged Frog Scenarios

Texas Barton Springs Salamander Scenarios

\*\* After send to Josh for QA need to modify them for using in PAT…. Additional wetland info?

**Scenario Name**

**Old weather file**

**Old weather file Lat Lon**

**New Weather File Number (closest to old weather file lat lon)**

CAresidentialRLF

W23234.dvf

37.62 -122.38

16535\_grid.wea

CArightofwayRLF\_V2

W23234.dvf

37.62 -122.38

16535\_grid.wea

CATurfRLF

W23234.dvf

37.62 -122.38

16535\_grid.wea

CAForestryRLF

W24283.dvf

40.98 -124.10

19596\_grid.wea

CAImperviousRLF

W23234.dvf

37.62 -122.38

16535\_grid.wea

ResidentialBSS

W13958.dvf

30.28 -97.70

9790\_grid.wea

RightOfWayBSS

W13958.dvf

30.28 -97.70

9790\_grid.wea

TurfBSS

W13958.dvf

30.28 -97.70

9790\_grid.wea

ImperviousBSS

W13958.dvf

30.28 -97.70

9790\_grid.wea

**Process** for updating old ROW and residential scenarios with new weather files.

1. Grab old weather file.
   1. "G:\Models\_Repository\Inputs\SCN\_(old version)\_CropScenarios\_and Weather\RLF\CAImperviousRLF.scn"
      1. Old weather file name second line
2. Look up lat/lon associated with old weather file. Station Locations
   1. https://www.epa.gov/sites/default/files/documents/STATION\_LOCATIONS.PDF
3. Find new weather file associated with an approximate lat/lon
   1. Look up new weather file number in this spreadsheet: "G:\Models\_Repository\Inputs\Complete Set of WEA WeatherFiles\Documentation\WeatherFileLatLong.csv"
4. Open up old scenario in PWC
   1. Use Scenario>Retrieve Scenario
      1. "G:\Models\_Repository\Inputs\SCN\_(old version)\_CropScenarios\_and Weather\BSS\ImperviousBSS.scn"
5. Change weather file
   * 1. In following folder, search for the new weather file number from 3.
     2. G:\Models\_Repository\Inputs\Complete Set of WEA WeatherFiles
6. Save as .SCN2
   * 1. Scenario>Save Scenario Info Only
7. Next: Need to modify for PAT
   1. Load scenario.
   2. Under the Watershed tab, change the User Defined Parameters
      1. Field area 100,000
      2. Water Body Area 10000
      3. Initial depth 0.15
      4. Max depth 0.15
      5. Hydraulic length 356.8
      6. Cropped area fraction 1.0
      7. Base Flow 0.0
      8. \*\*\* Check Varying volume and flow through on left.
      9. \*\*\* Check sediment mass balance.