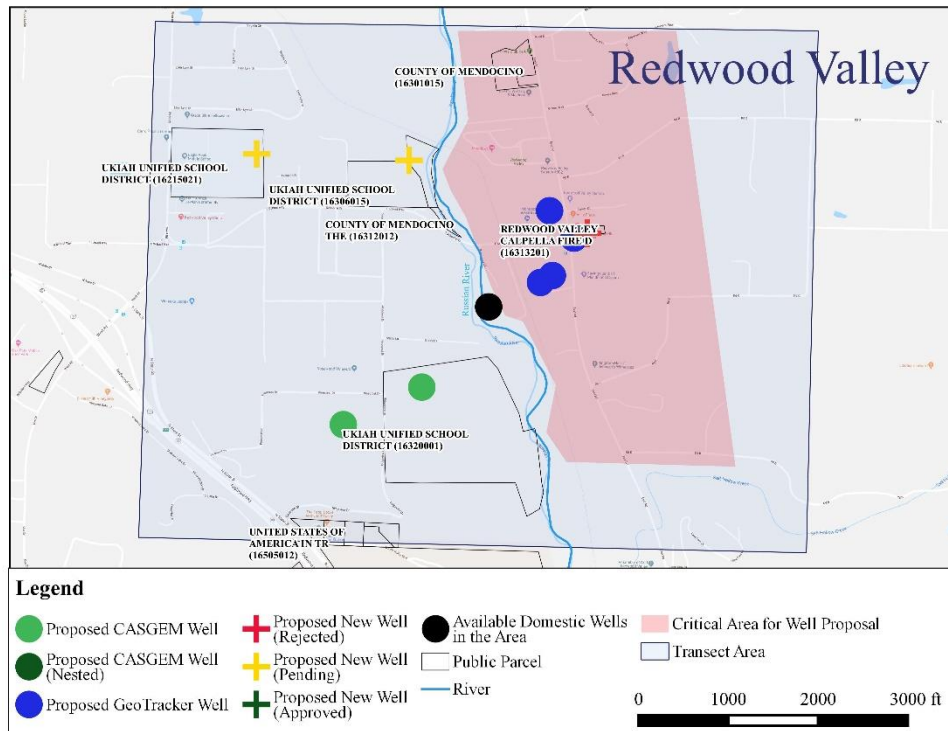


(a) Transect Area and Available Wells



(b) Transect of Existing Wells and Proposed New Wells

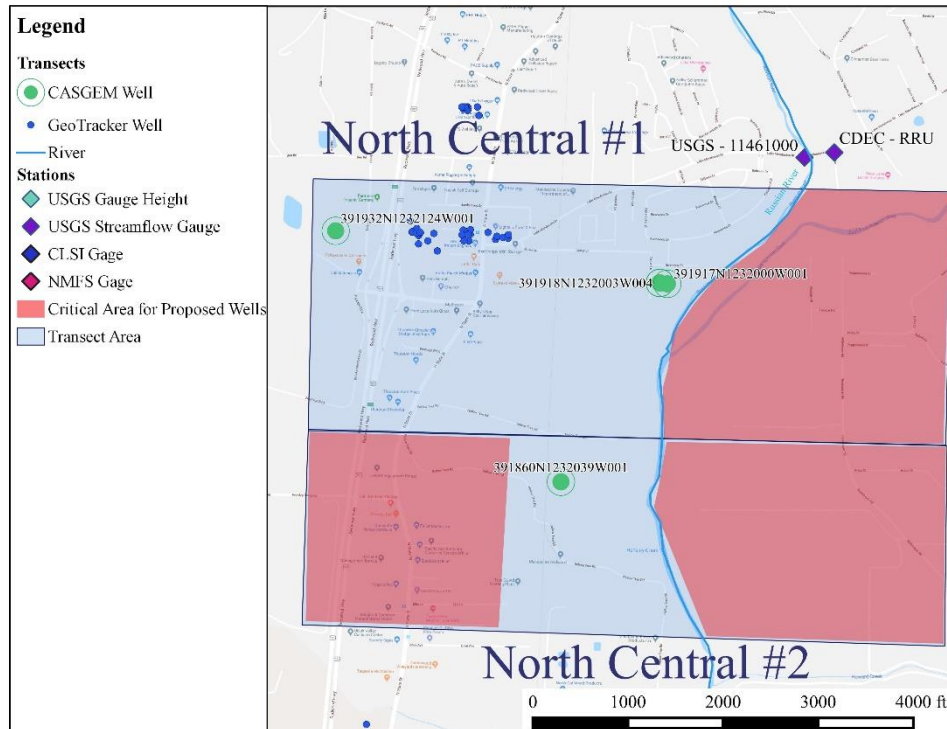
Status of Redwood Valley Transect

Redwood Valley transect is our most northern transect in the basin which is supposed to produce data regarding the interaction of groundwater and surface water using the NMFS gauge nearby. We proposed to drill two wells in the west of the river in two school district lands that have been pending but the outlook is positive. Our proposed CalFire well in the east of the river was rejected due to existing GeoTracker wells nearby.

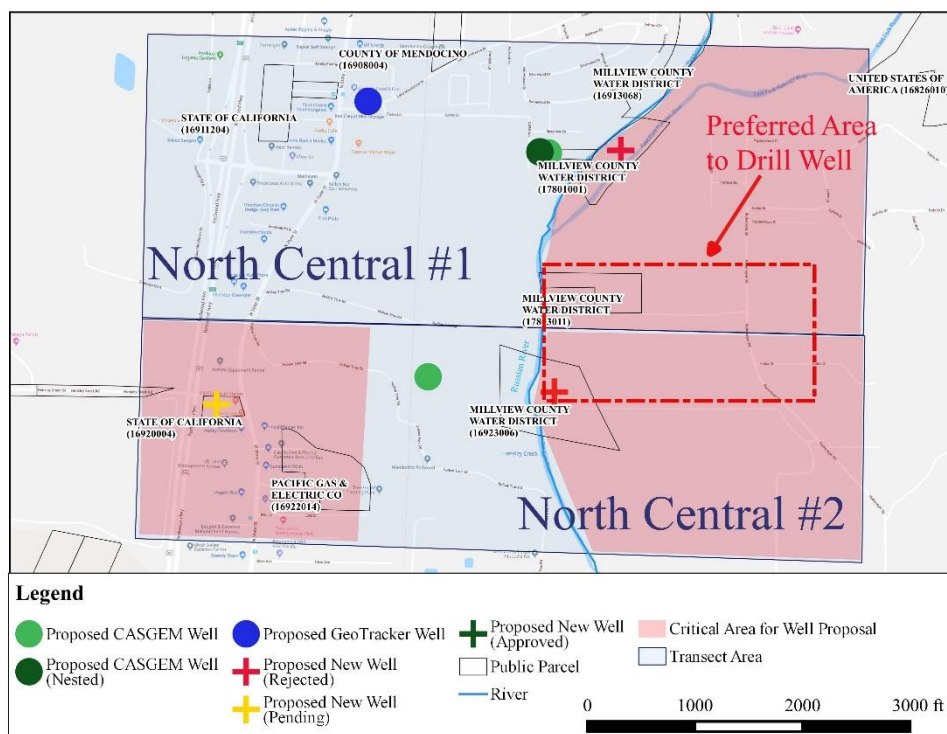
For the transect to work properly we need:

- Both School District New wells to be approved for drilling;
- At least one GeoTracker or domestic well (preferably two, one closer to the river and one further to the east) to the east of the river to be agreed for our monitoring; and,
- The two CASGEM wells in the southwest of the transect to be included in our monitoring.

Note: We will need permission to install instrument in the CASGEM, GeoTracker, or Domestic wells.



(a) Transect Area and Available Wells



(b) Transect of Existing Wells and Proposed New Wells

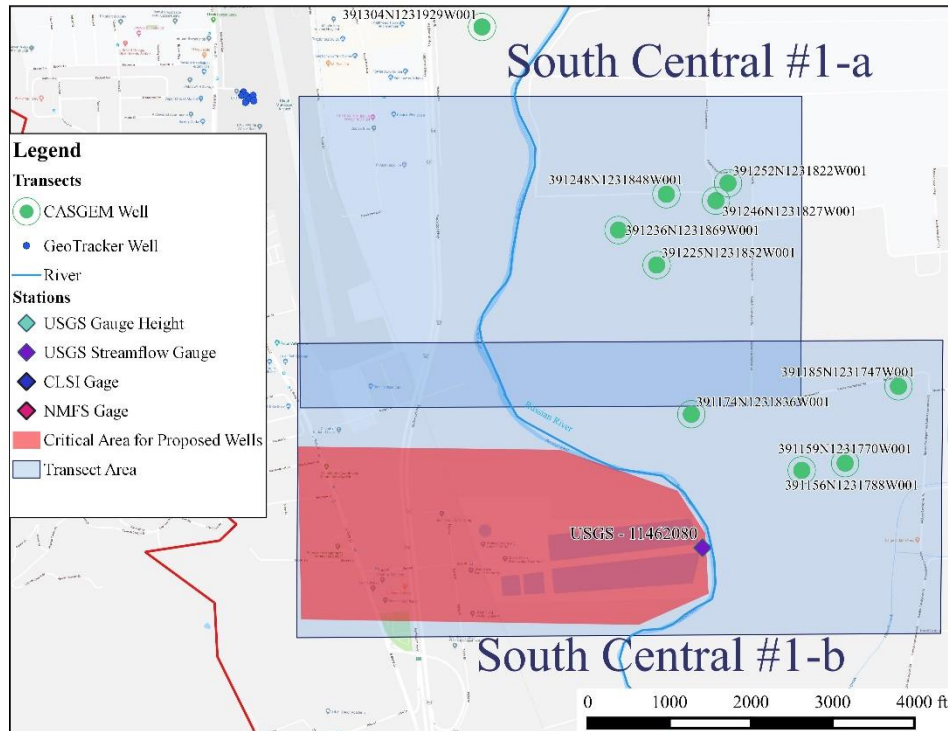
Status of North Central Transects

We ideally proposed two transects, but one of them would be sufficient (preferably the southern one since it may better avoid the disturbance from the east fork and west fork confluence).

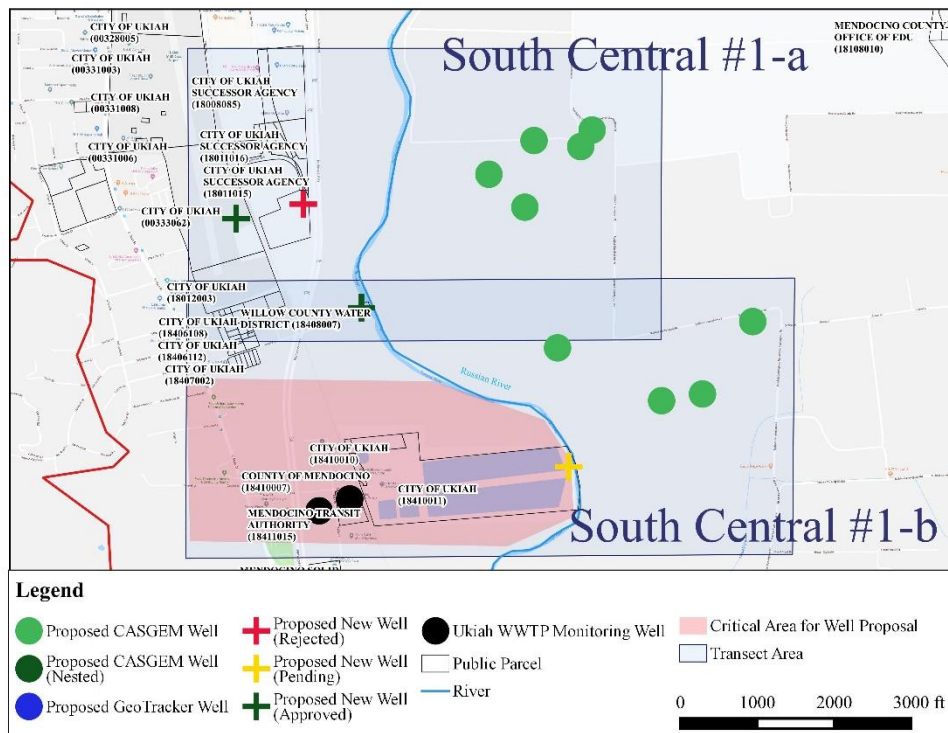
The problem with both transects is that no monitoring wells exist in the east of the river. We proposed two wells to be drilled within the public lands owned by the Millview County Water District, but both parcels were not usable for this project. There are no other available public lands, and we would need private land owners within the area east of the river shown in red to cooperate and give permission to drill a well or two. For these transects to work we need:

- At least one well to be drilled within the private lands east of the river. Preferably, either two wells, or one near the common border of the two transect areas;
- The proposed well in the southeastern part of the transects to be approved, or an alternate to be drilled within the PG&E land;
- The three CASGEM Wells, especially the nested well in the north and the single well in the south to be incorporated into the transects.

Note: We will need permission to install instrument in the CASGEM, GeoTracker, or Domestic wells.



(a) Transect Area and Available Wells



(b) Transect of Existing Wells and Proposed New Wells

Status of South Central Transects

We proposed two transects and we would like to get both of them to work. The southern transect can work as long as we can get two monitoring wells from the WWTP to be incorporated into our program. If the WWTP do not have a well near the river, we would like to drill there. Then we will use one of their background wells further from the river to couple with the well near the river. For the northern transect, we proposed three wells (one as contingent): two of them seem to be approved verbally (One in the vicinity of the Airport and the other within the Willow County Water District). The one in the City of Ukiah Successor Agency was a back-up and not need with the city tentative approve for the airport property. For the two transects to work we will need:

- Both proposed well for the northern transect to be drilled (green crosses in the map);
- Instrument two wells from the WWTP (one close to the river and one further). Or, Drill one closer to the river and use one of their monitoring wells. We can also propose to drill both wells if the WWTP would prefer that option;
- We will need at least two of the CASGEM wells in each transect in the east of the river to be instrumented (four total CASGEM Wells, at least two for each transects).

Note: We will need permission to install instrument in the CASGEM, GeoTracker, or Domestic wells.

Summary Table of the ideal proposed new wells

Status	Transect	Well Name	Latitude	Longitude	Well Depth	Screen Interval(s)	Landowner Name
Pending	North - Redwood Valley #1	North Redwood Valley #2-13	39.2675	-123.2104	60	20-50	Ukiah Unified School District
Pending	North - Redwood Valley #1	North Redwood Valley #2-14	39.2676	-123.2164	60	20-50	Ukiah Unified School District
Pending	North - Central #2	North Central #2-6	39.1852	-123.2108	30	5-25	Calfire Ukiah Station
To be located and proposed	North - Central #2	North Central #2-15	TBD	TBD	App. 310	App. 20-60; 130-175; 250-300	TBD
To be located and proposed	North - Central #1	North Central #1-16	TBD	TBD	App. 30	App. 5-25	TBD
Verbally Approved	South – Central #1(a)	South Central #1a-4	39.1219	-123.1984	60	20-50	City of Ukiah
Verbally Approved	South – Central #1(a)	South Central #1a-3	39.1188	-123.1926	310	30-60; 140-180; 250-300	Willow County Water District