Fourth Newsletter

Glenn County Groundwater Reliability and Recharge Pilot Program

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Project Summary

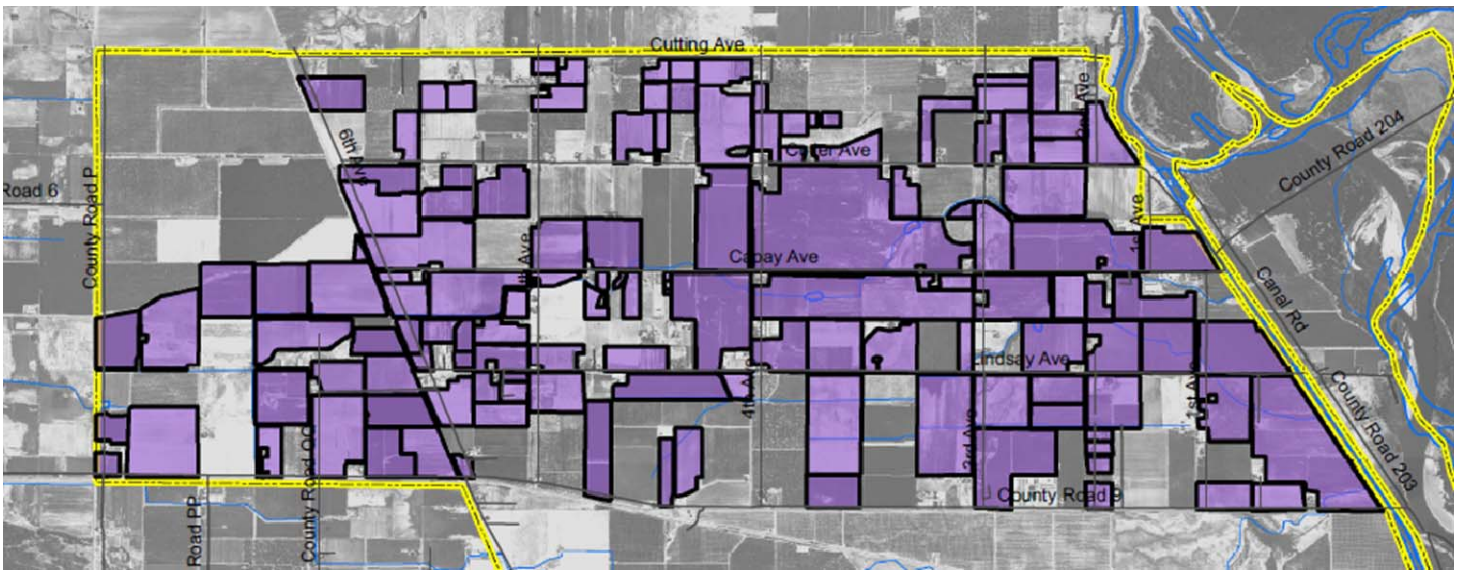
The Glenn County Department of Agriculture on behalf of the Glenn County Water Advisory Committee is investigating the feasibility of utilizing surface water in –lieu of groundwater pumping to provide increased water supply flexibility and investigate the benefits of in-lieu recharge in the East Corning Basin, a groundwater dependent area in the northeastern corner of Glenn County. This newsletter describes the proposed canal layout and its anticipated cost

Canal Layout Considerations:

How will the surface water reach the area?

One of the goals of the feasibility study is to identify a practical, physical way in which surface water can be delivered to irrigators in the study area in an economical manner. Designing a canal system that utilizes as much gravity flow as possible to minimize pumping costs, and thus would reduce the costs incurred to deliver water. The study area lies downhill from the Tehama Colusa Canal (TC Canal). Because of this, the canal system has been designed to take water out of the TC Canal, and let gravity pull the water through the study area and to irriga-

There are approximately 3,500 acres within the study area that are likely to benefit from utilizing surface water, which were identified based on irrigation method and crop type. The figure below shows these areas. The detailed conceptual canal layout (shown on page 2 of this newsletter) was developed utilizing existing ditches and infrastructure as much as possible to minimize capital costs, and was laid out to reach the majority of potential users.



Map Showing Areas Suitable for Using Surface Water

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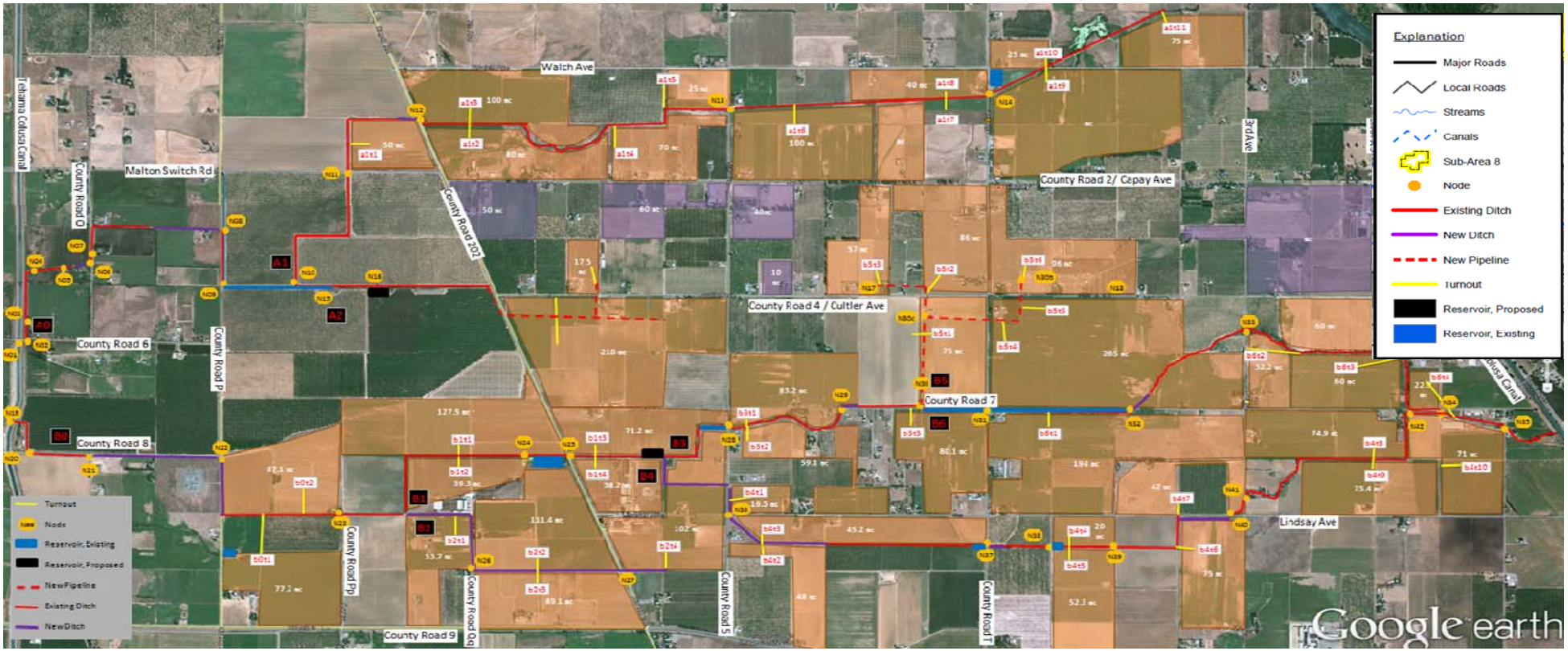
Detailed Conceptual Canal Layout



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www.glennwac-eastcorning-recharge.org

The detailed conceptual canal layout identifies the plan to deliver surface water to the study area. First, water is pulled out of the TC Canal using turbine pumps, and then it flows through the existing canals within the Orland Unit right-of-way. From there it flows through short, new ditches into existing drainages, new ditches, and pipelines following topography. For operational controls, the layout uses a combination of gates, small reservoirs, and pumped diversions. Farmers are then able to pull water from the canals at turnouts, and use that water for irrigating fields. This conceptual layout is being used to develop costs and considerations for the feasibility evaluation, which will be presented in the final newsletter.