

Proposed Wheeling of Town of Windsor's Recycled Water in Geysers Project Pipeline

City Council / BPU Liaison Subcommittee
September 18, 2022

Peter Martin – Deputy Director Water Resources

STILL
DROUGHT IS HERE
SAVE WATER 

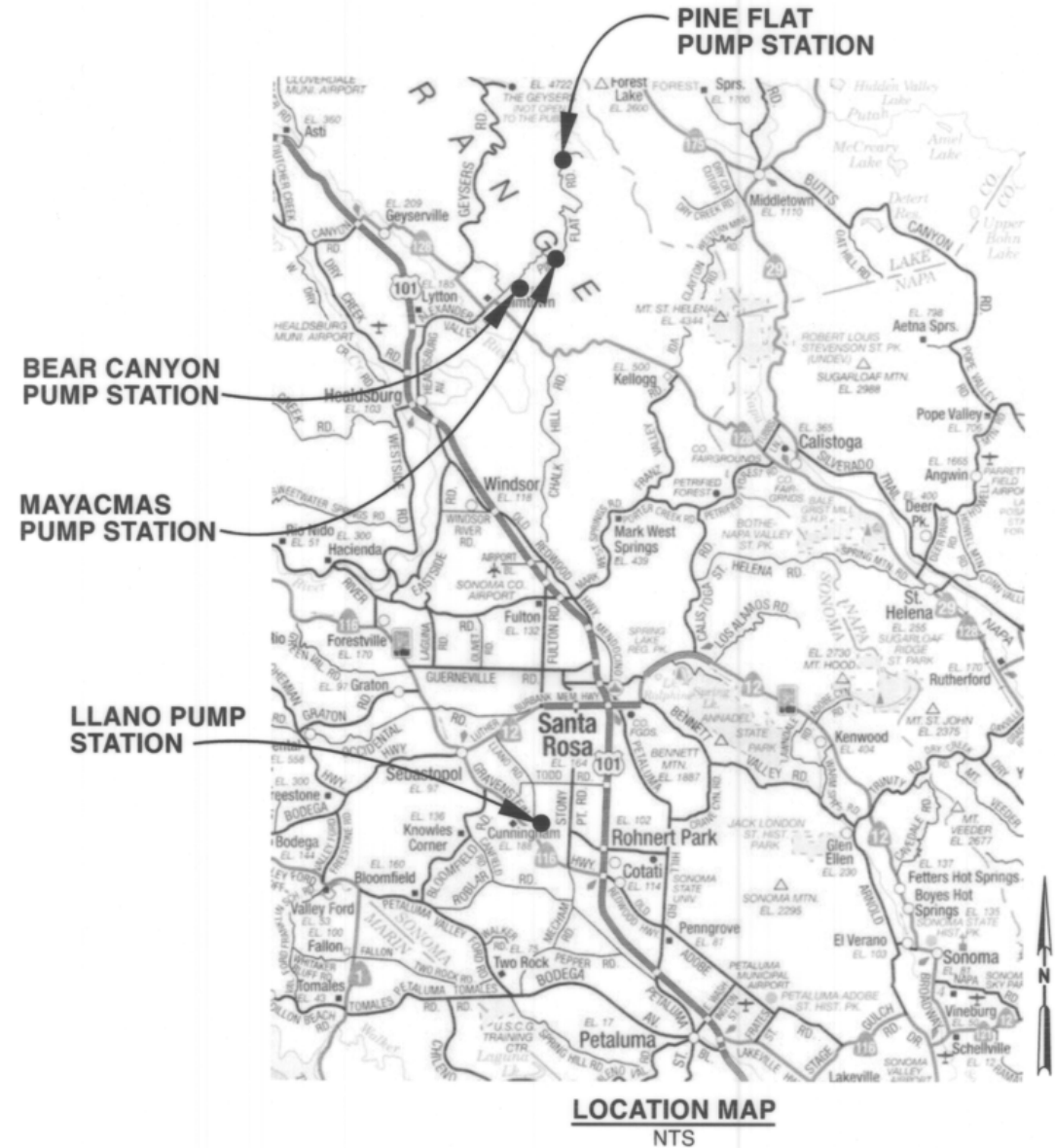
Geysers Project Operations Today

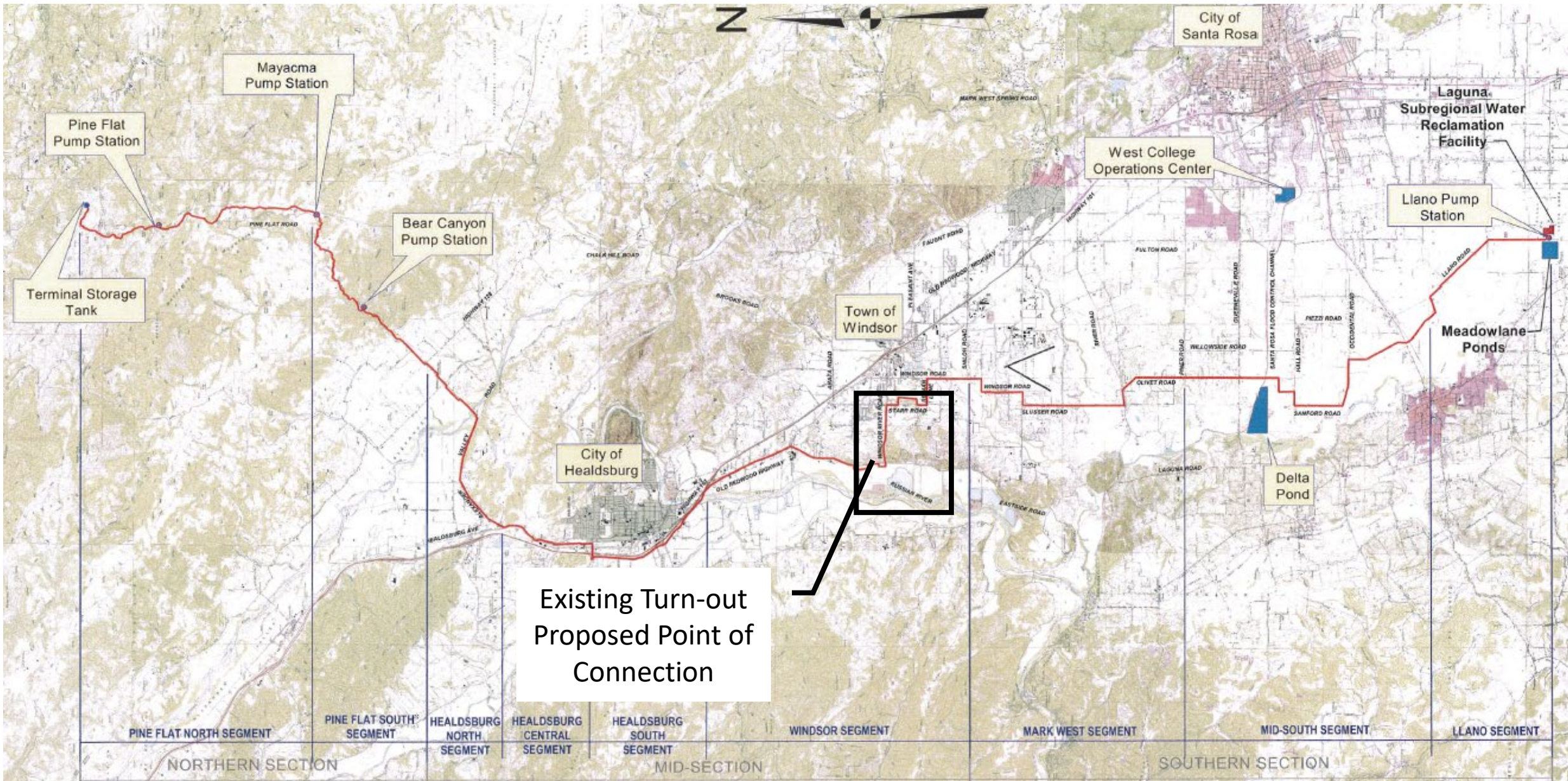
- ~4 Billion Gallons sent to Geysers annually
- Contract has performance requirements for Santa Rosa
- Monetary and pumping cost contributions by Calpine
- About 2/3 of total recycled water is sent to steamfields annually
- Lowest cost, weather-independent, water reuse option for Santa Rosa and regional partners

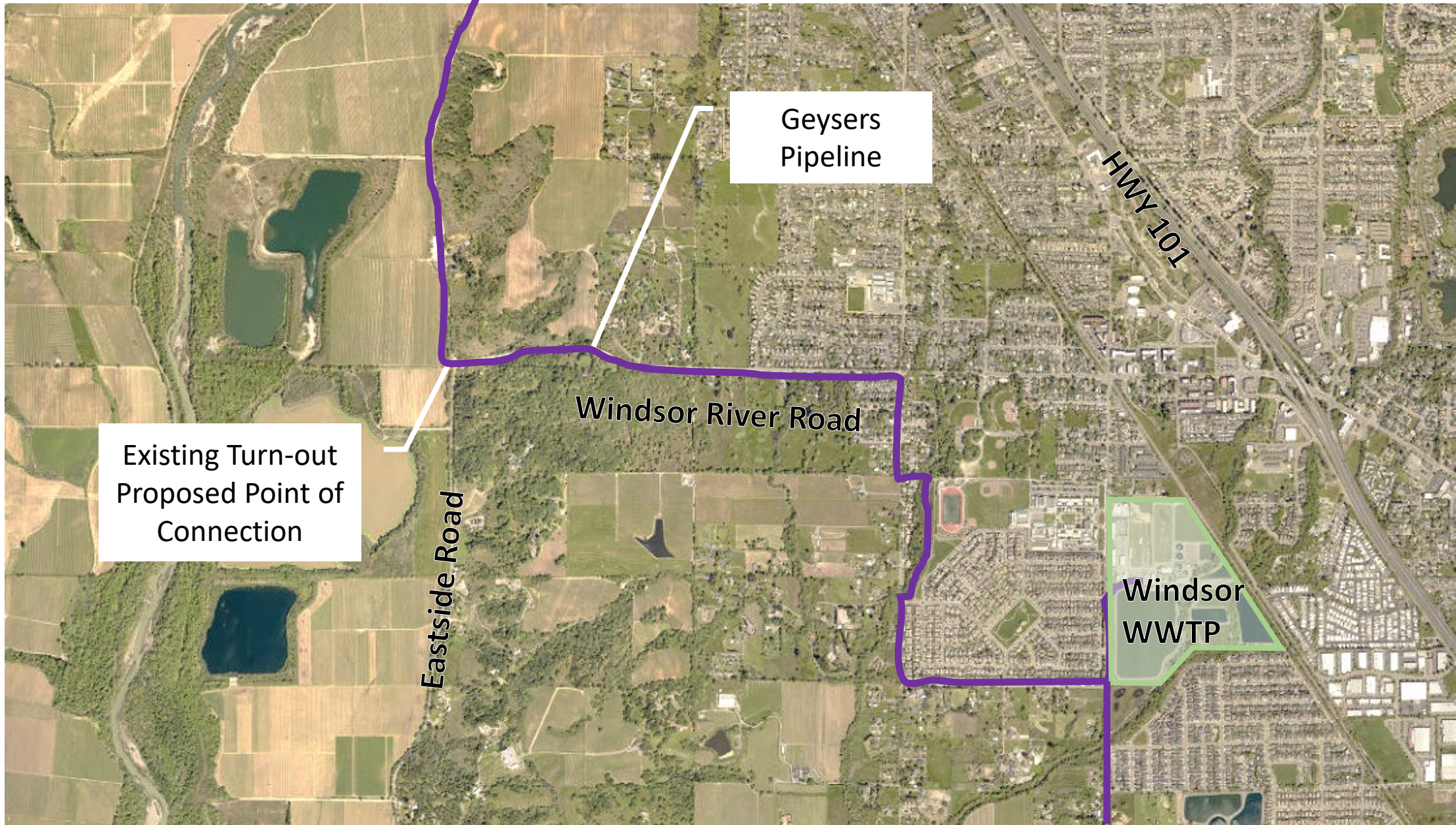


Pumping Operations for Geysers Pipeline

- Llano pump station conveys water 30 miles to buried tank at Bear Canyon
- Three pump stations pump in series to convey water from Bear Canyon to the Terminal tank at Calpine's steam fields







Geysers Pipeline

HWY 101

Windsor River Road

Existing Turn-out
Proposed Point of
Connection

Eastside Road

Windsor
WWTP



From LTP

TOWN OF WINDSOR WATER RECLAMATION SYSTEM

WATER RECLAMATION USE AREAS

JUNE 2012

Brelje & Race
CONSULTING CIVIL ENGINEERS

LEGEND

DISTRIBUTION SYSTEMS

- EFFLUENT PUMP STATION & MAINS
- MITCHELL LANE PUMP STATION & MAINS
- TRANSFER MAIN
- GEYSERS TRANSFER MAIN

WELLS

- Domestic Well
- Irrigation Well

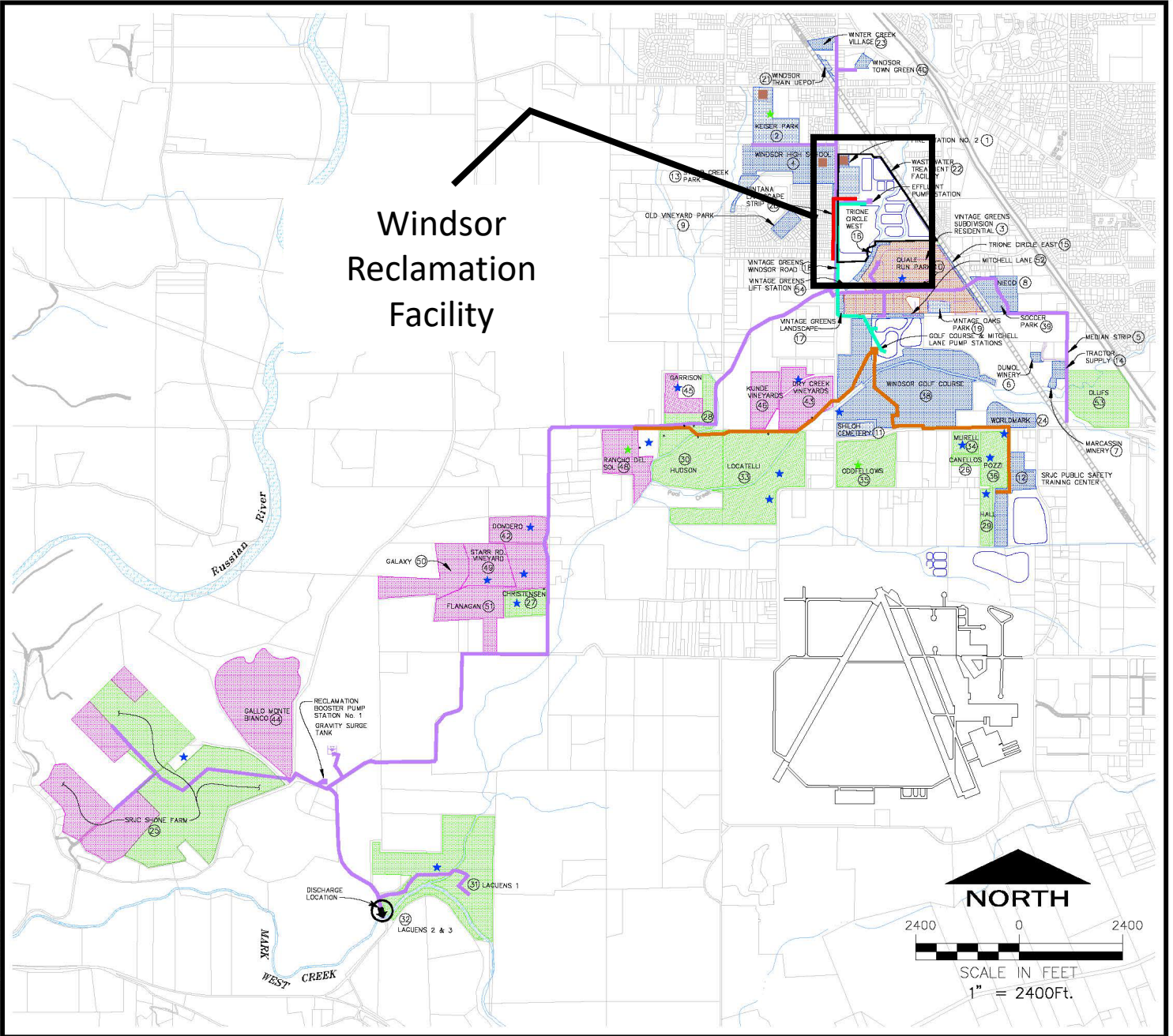
RECYCLE WATER USE AREAS

- PASTURE, FODDER, OTHER CROPS
- VINEYARD
- COMMERCIAL AND INSTITUTIONAL LANDSCAPING AND TURF
- DUAL PLUMBED RESIDENTIAL IRRIGATION
- DUAL PLUMBED BUILDINGS
- REFER TO TABLE 6 FOR DETAILS

Notes: The hatched areas of this figure represent the parcels that are irrigated with reclaimed water, not the actual irrigated areas. Setbacks from wells, creeks, trees, vernal pools, etc. are maintained as described in the report. The locations of the wells are approximate.



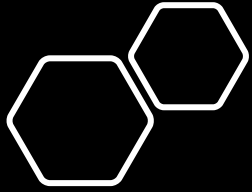
FIGURE 4



08-20-12 - Revised - \\17256-00\proj\17256-00-01\DWG\Water Reclamation\Reclam-Util-2012.dwg

Project Proposal Update

- Staff have met with Town of Windsor and identified key terms and conditions of a future agreement
- Staff have met with Jackson Family Wines staff to discuss technical specifications of a potential tie-in at turn out



Questions
from last
CC/BPU
Liaison
Meeting

How much excess capacity does the pipeline have right now?

What is the benefit to Santa Rosa?

What are the risks and how will they be mitigated?

How much excess capacity exists in pipeline?

- Design pumping capacity > 35 Million Gallons per Day (MGD)
- Average daily flow to Geysers 11 – 12 MGD
- Max historical flow 18.5 MGD
- Permitted Capacity for Windsor Reclamation Facility 1.9 MGD / Pump Station Capacity 1.5 MGD

What is the benefit to Santa Rosa?

- **Use Existing Infrastructure Capacity**
 - Currently have unused capacity in the pipeline; cost recovery for using the capacity
 - Turnouts were constructed in anticipation of future delivery of recycled water in the region
- **Offset surface water supplies** – Reduces reliance on Russian River
- **Partnerships and Regional Supply Benefits** – Opportunity to prove concept and potential future water supply resiliency options for our region

What Are the Risks and how will they be mitigated?

- Existing operations
- Existing contractual obligations
- Connecting to Geysers system
- Cost recovery
- Legal / Regulatory



Proposed Terms and Conditions for Future Agreement

- Recycled water will be provided solely by Town of Windsor
- “Wheeling” Agreement for utilizing excess pipeline capacity will be between Santa Rosa and Town of Windsor
- Town of Windsor will have agreement with Jackson Family Wines for sale and delivery of recycled water

Proposed Terms and Conditions for Future Agreement

- Agreement will be separate from and subordinate to existing 2008 agreement for conveying Town of Windsor's water to Geysers
 - Any water conveyed under this agreement is interruptible, subordinate to operational needs of Santa Rosa and Town of Windsor's geysers project delivery priority
- Operations plan for deliveries must be approved by Santa Rosa to ensure accounting and priority is preserved

Proposed Terms and Conditions for Future Agreement

- Santa Rosa has design approval and construction oversight for connection to the Geysers pipeline
- Santa Rosa to be compensated for all costs related to pre-construction, design review, construction oversight and any operational/administrative costs
- Windsor responsible for any and all permits, licenses and easements/ROW
- Windsor responsible for O&M downstream of the turnout

Proposed Terms and Conditions for Future Agreement

- Term - 10-year term
- California Environmental Quality Act (CEQA)
 - Windsor will be lead agency
 - Santa Rosa will be responsible agency
- Standard indemnities / defense
- Risks passed to appropriate responsible party

Questions and Feedback