Laguna Seca Subarea
Groundwater Flow Divides

Presented to the Seaside Basin Board of Directors
February 17, 2016
Background & Purpose

- Declining groundwater levels in the LSSA
- Some areas of LSSA cannot be effectively managed by WM as wells outside of the Basin are causing the declining levels
- Map existing and future groundwater flow divides based the groundwater model
General Results

- Regional flow direction is consistent for all months examined.
- Laguna Seca Anticline acts as a barrier to flow, splitting flow into two paths: one flowing west through the LSSA to the south of the barrier and one flowing northwest into the Northern Inland Subarea.
Important Notes

- Flow divides are not static features or hard barriers to flow.

- They will move in response to pumping stresses and changes in recharge.
General Results

More Stable Divides

Seasonal Divides
Caveat: Corral de Tierra
Geology is Poorly Understood
Conclusions

- The divide between LSSA and Corral de Tierra should remain fairly stable.
- Flow divide is expected to move westward if LSSA pumping declines.
- The eastern portion of the LSSA is in greater hydraulic connection with the Corral de Tierra.
- As such, it will not be possible for WM to implement management strategies to stop declining groundwater levels in the eastern portion of the LSSA.
- Modeling may be based on incomplete conceptual model of geology in the Corral de Tierra area. Should undertake studies to improve geologic uncertainty.
Questions?