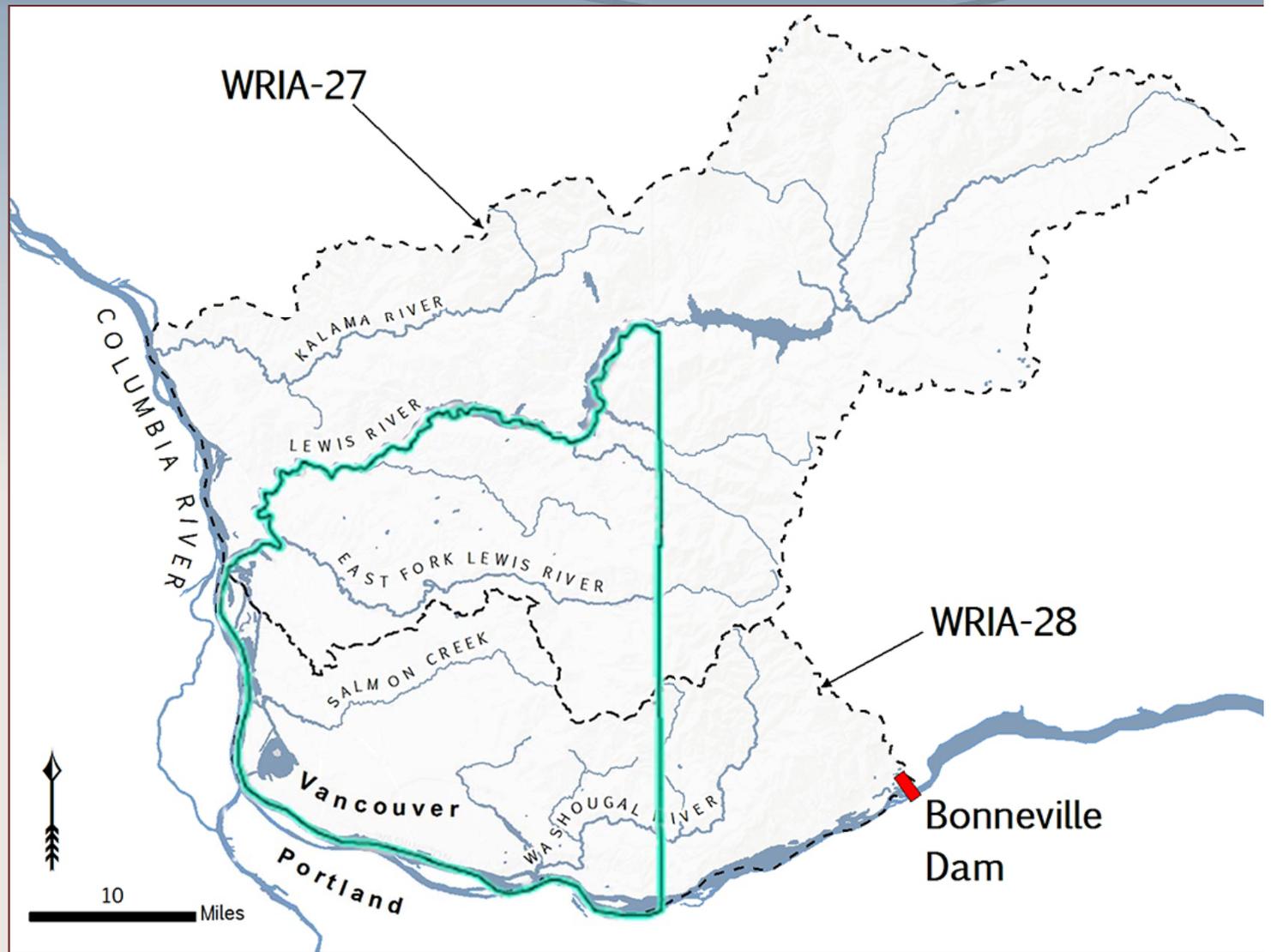# Striking a Balance

Integrated Water Supply Planning for Human Needs and Instream Flows
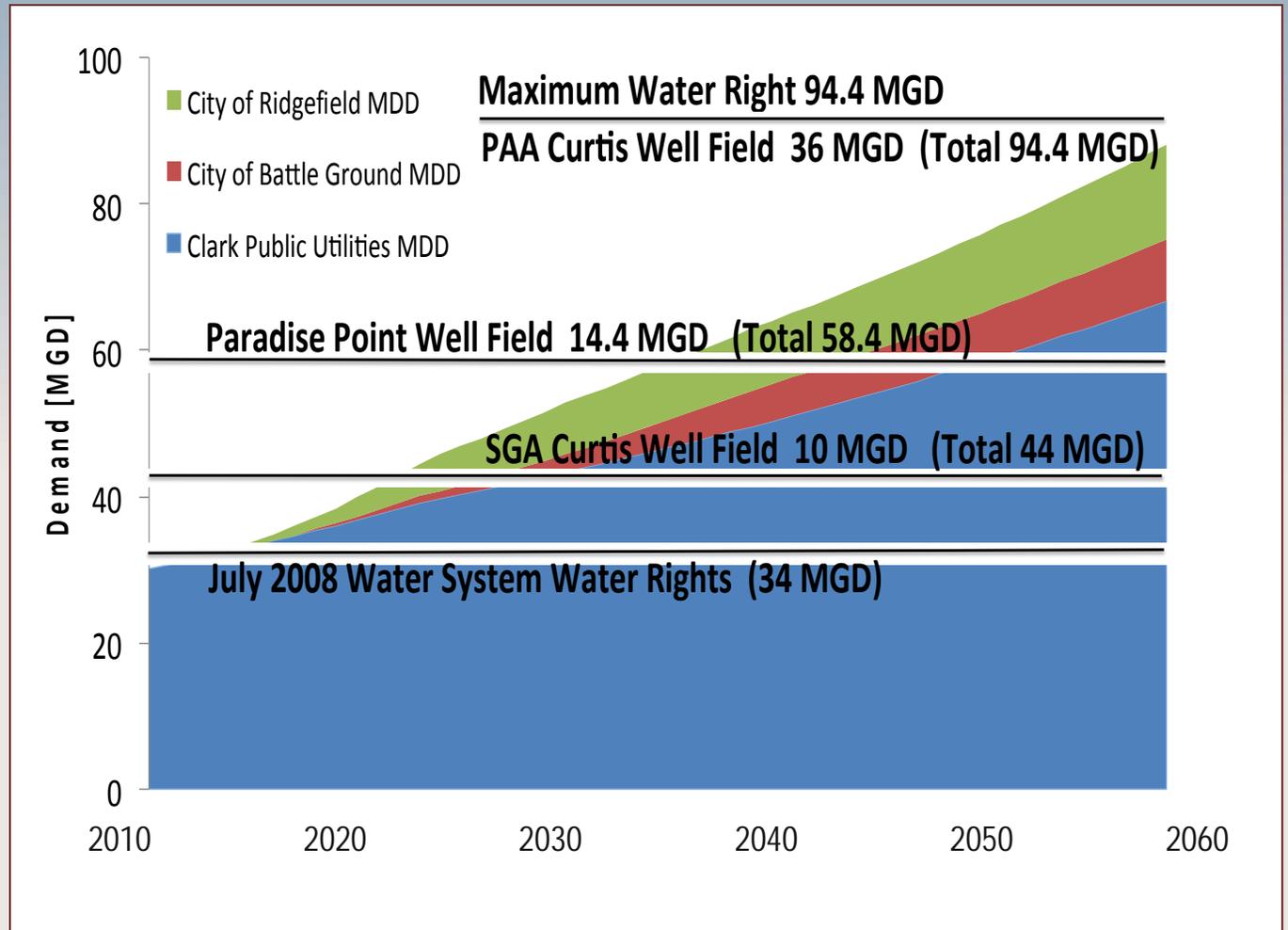
Doug Quinn,
Clark Public Utilities

May 1, 2015

Planning & CPU Service Areas

Forecasted Water Demands Through 2060

Demand [MGD]

Maximum Water Right 94.4 MGD

PAA Curtis Well Field 36 MGD (Total 94.4 MGD)

Paradise Point Well Field 14.4 MGD   (Total 58.4 MGD)

SGA Curtis Well Field 10 MGD   (Total 44 MGD)

July 2008 Water System Water Rights (34 MGD)

- City of Ridgefield MDD
- City of Battle Ground MDD
- Clark Public Utilities MDD

Y-axis: 0, 20, 40, 60, 80, 100

X-axis: 2010, 2020, 2030, 2040, 2050, 2060

ESA and Salmon Recovery

Watershed Planning Act
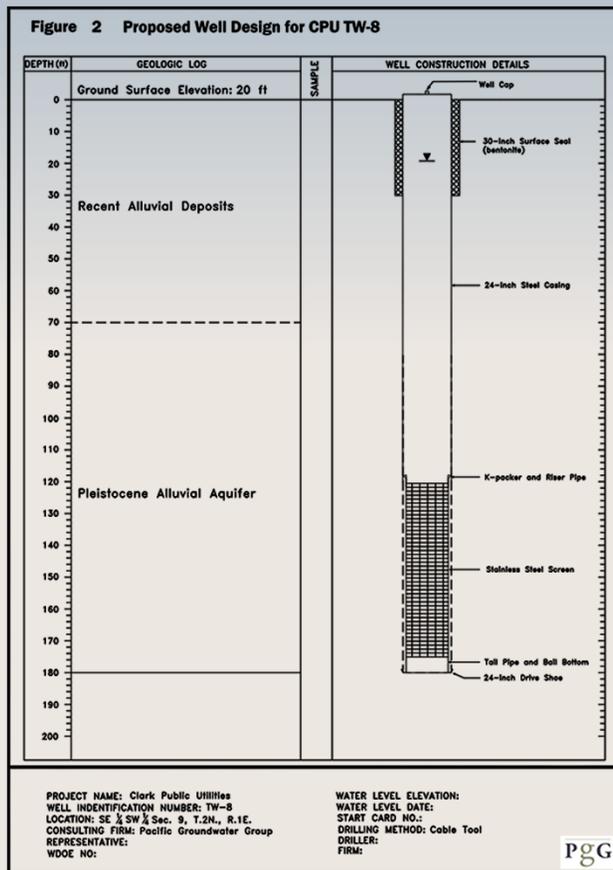
Planning Participants

Natural Context

The Process in Theory

1. Organize the planning unit
2. Make priorities + identify efficiencies
3. Gather and digest available data
4. Assess strengths + constraints
5. Establish issue sideboards and approach
6. Achieve consensus
7. Sign the plan

Some Real Problems

Figure 2 Proposed Well Design for CPU TW-8

- Technical understanding of issues
- Connectivity between aquifers & base flow
- Myths and conspiracies
- Planning fatigue
- Approach to planning solution

Some Real Problems

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Some Real Problems

Balance Interests

Adopt Plan

- Technical understanding of issues
- Connectivity between aquifers & base flow
- Myths and conspiracies
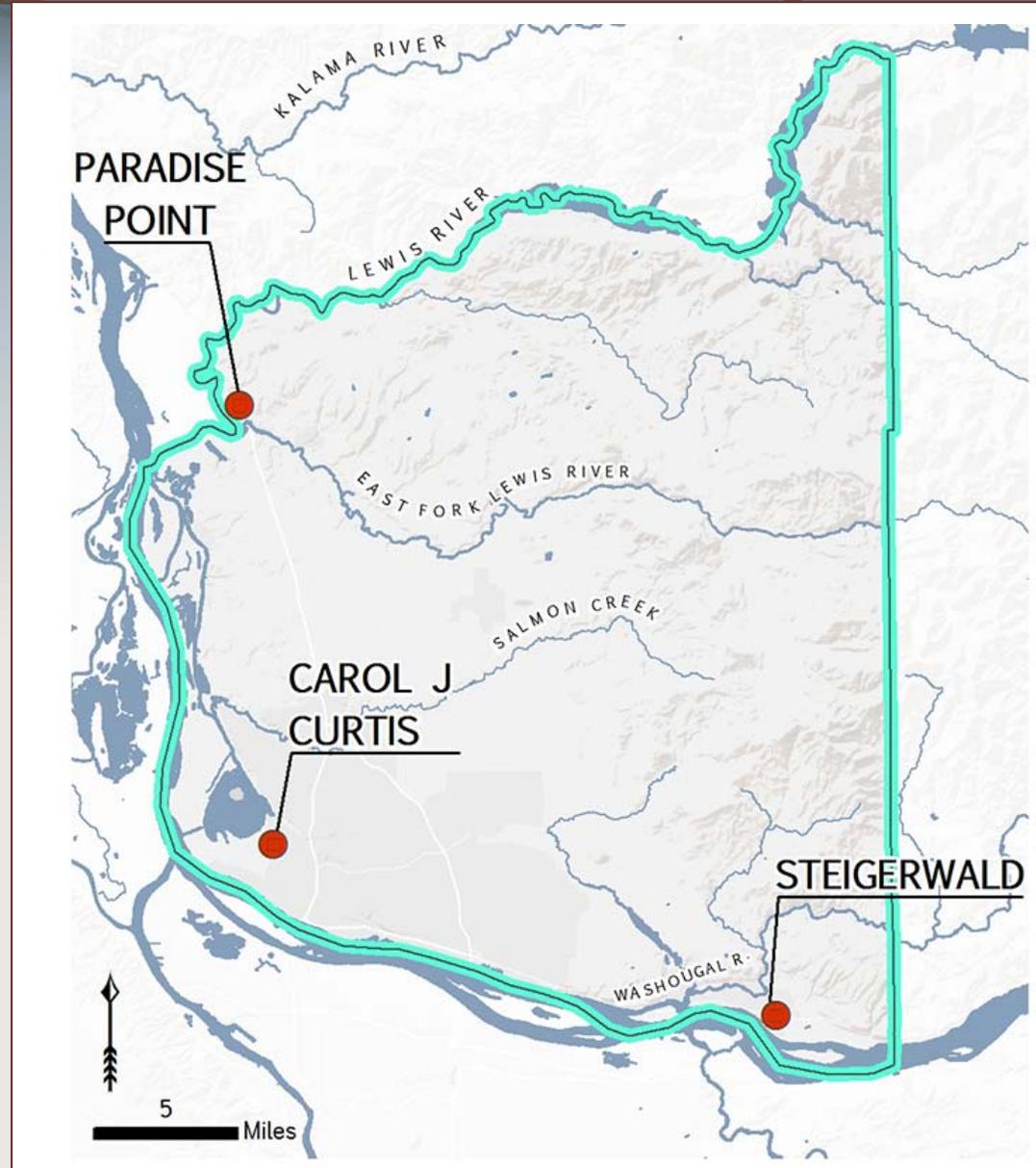- Planning fatigue
- Approach to planning solution

Solutions

- ✓ Trust among planners
- ✓ Build upon strengths
- ✓ Develop science
- ✓ Identifying a common denominator among interests

Building Certainty

- ✓ Implement the regional supply system
- ✓ Reserve supplies not served by regional system
- ✓ Stepwise strategy for use/access to reserves
- ✓ Close watershed to additional withdrawals
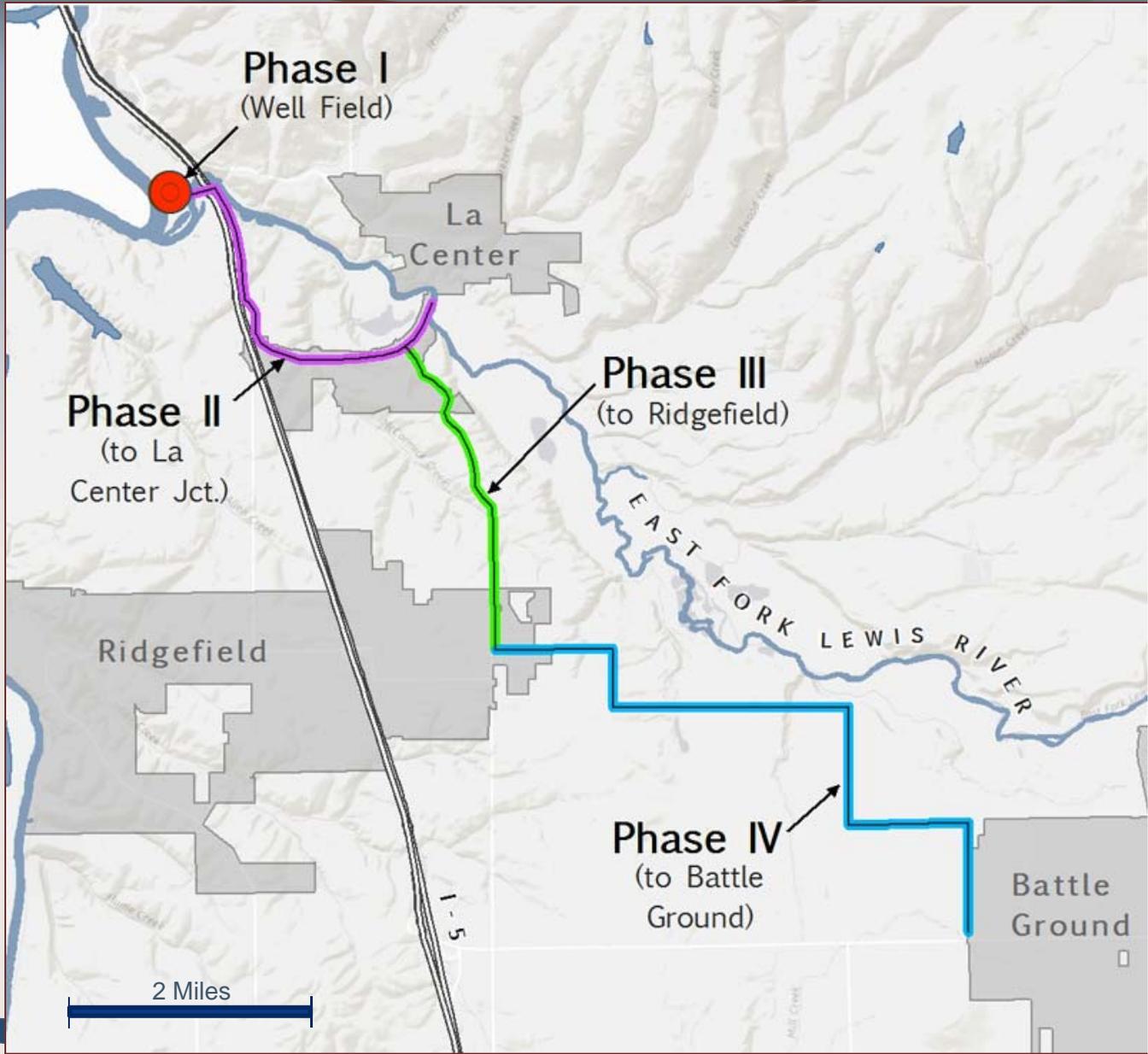
Regional Wellfields under Tidal Influence

Summing it Up

- Plan provides water supply through 2060

- Instream flows are protected and enhanced

- Stronger relationships with Ecology and partners

- Funding assistance from Ecology

Results

Paradise Point Regional Supply

Transmission Line Tour.kml

Questions?