Project Background

- Wastewater Facilities Planning
  - Steering Committee provided advice and perspectives
  - Three treatment alternatives reviewed
    - Preferred alternative: keep water in region to address wastewater capacity and limited water availability issues
    - Recommendation: construct new Class A water reclamation plant
  - Four candidate sites reviewed
    - Recommendation: site in southerly portion of the City's service area

City of Airway Heights Water Reclamation Plant
Site Alternative Evaluation Results

	Site Alternative No. 1	Site Alternative No. 2	Site Alternative No. 3	Site Alternative No. 4
	Along Deno Road, West of Hayford Road, and East of Russell Street	Park West well site, North of State Rte 902, West of Craig Road, East of McFerran Road	West of Craig Road and South of McFarlane Road	North of McFarlane Road, East of Lawson, and West of Russell Street
Site Evaluation Criteria	Total Score	Total Score	Total Score	Total Score
Land Ownership and Availability	30	35	30	40
Land Availability for Future Expansion and Buffering requirements	45	40	30	35
Potential Impacts on Receiving Water Quality	35	25	25	35
Technical & Economic Impacts of Receiving Water requirements	28	20	20	28
Feasibility of Connection to City's Existing Collection System	28	20	20	28
Proximity to Potential Reclaimed Water Uses	36	8	20	24
Accessibility to Existing Roads and Utility Services	8	8	10	18
Ability to Obtain Required Approvals for Siting Facility	40	25	25	40
Location Within Desired Floodplain Designation	5	5	5	5
Compatible Site and Surrounding Land Use Designations	15	18	21	24
Proximity from Areas of Natural and Aesthetic Significance	8	10	10	12
Proximity from Areas of Historical and Cultural Significance	8	8	8	8
Minimal Previous Site Uses and Extent of Possible Soil and Groundwater Contamination	12	21	12	18
Feasibility of Mitigation Measures	15	15	12	15
Potential to Encourage Partnerships for Project Financing	10	10	8	10
Public Acceptability	24	20	24	24
Potential For Multiple Site Uses	9	6	12	18
Cost	30	25	20	40
Sum of Total Scores For Each Site Evaluation Criteria	386	319	312	422

NOTE: The "Total Score," considered "Weight" and "Score" for each specific criterion. A higher score represents a more suitable site.

Examples of Water Reclamation

City of Cheney, Washington

- Currently uses Class D reclaimed water for site irrigation and wetlands habitat
- City of Cheney and Eastern Washington University (EWU) are teamed and plan to upgrade to Class A levels
  - Future irrigation of school grounds (including EWU college campus), athletic fields and city parks

A view of the Cheney wastewater treatment and biosolids reclamation facility from the constructed treatment wetlands

Ecology photo

Water Reclamation Plant
August 2007

Examples of Water Reclamation

King County, Washington

- Two Class A reclamation plants: South and West Point
- South Plant:
  - Currently produces .25 million gallons per day (MGD), can produce up to 1.3 MGD
  - Used for irrigation of major sport facilities and play fields
  - Saved over 25 million gallons of drinking water over 5 years
- West Point Plant:
  - Currently produces .5 MGD, can produce up to .70 MGD
  - Used internally at the facility
  - Saves over 300,000 gallons of drinking water annually

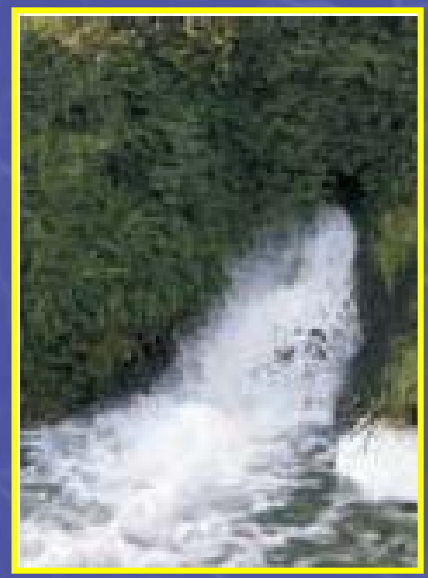
Inside view of King County applied research center to test reclaimed water technologies

Ecology photo

Examples of Water Reclamation

City of Walla Walla, Washington

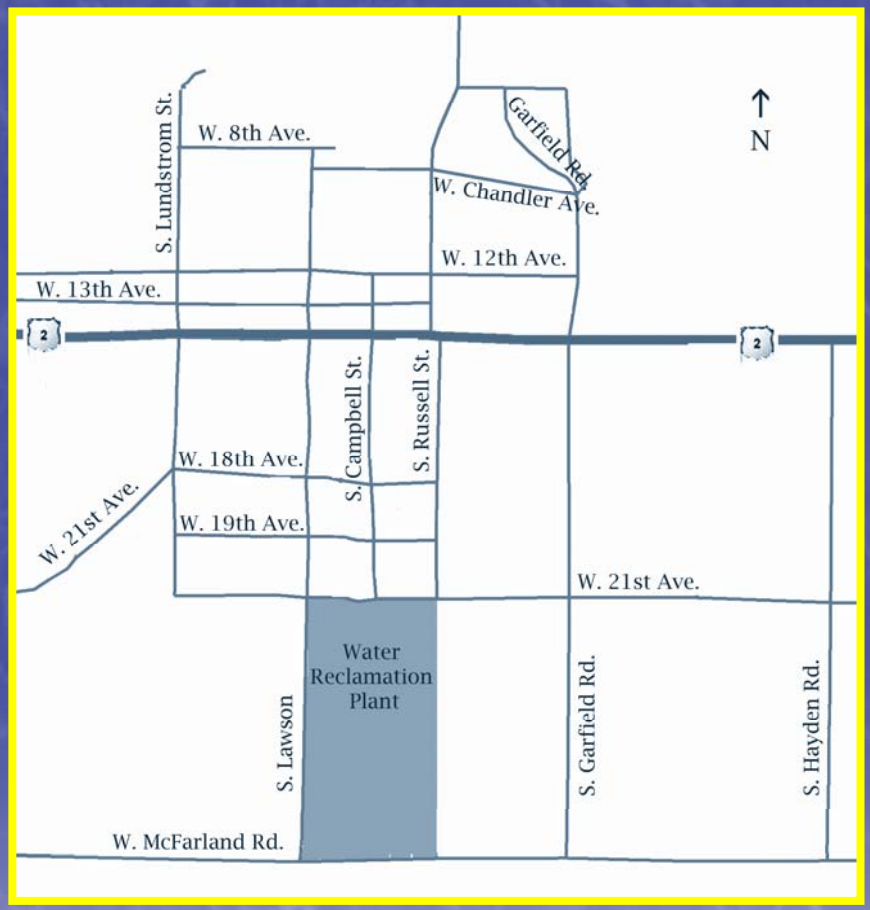
- Class A Reclaimed Water Facility
- Designed to treat 9.6 MGD
- Three phase schedule - construction will be complete in 2008.
- Reuse opportunities:
  - Irrigation districts
  - Habitat enhancement
  - Agriculture uses



Reclaimed water discharging into Mill Creek

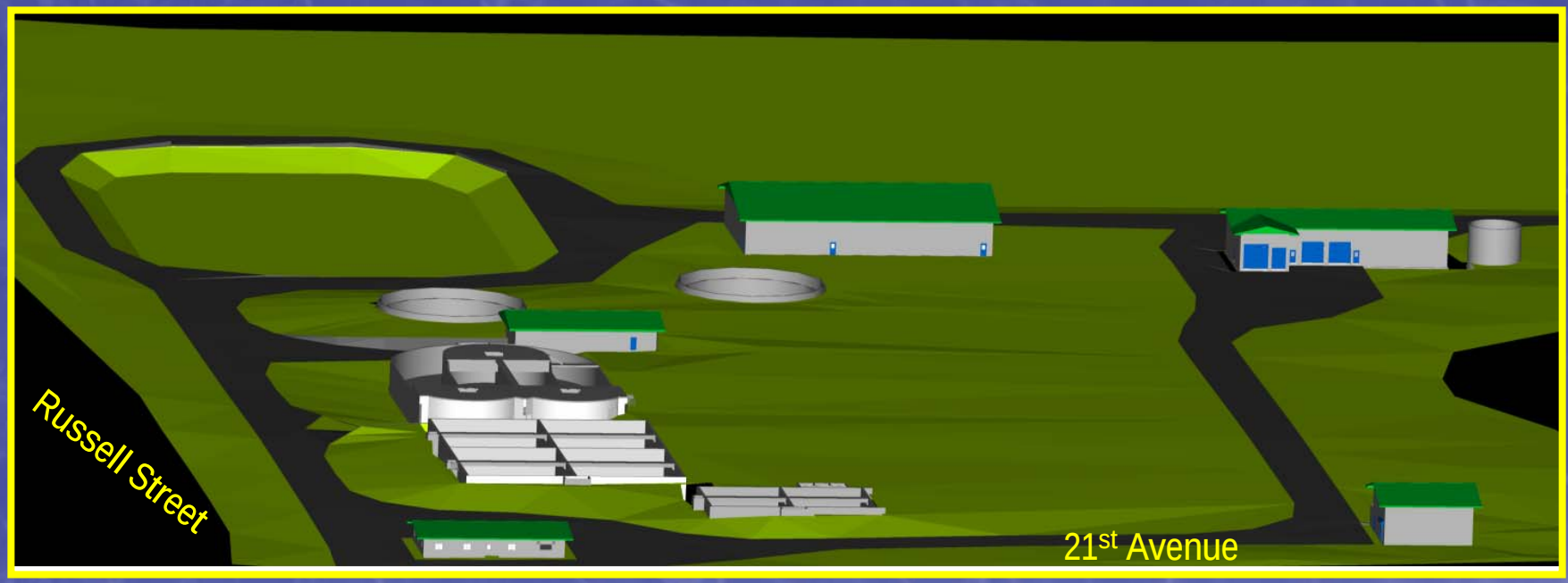
Ecology photo

Location of the Plant



Water Reclamation Plant
August 2007

3-D Model



3-D Model