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DEPARTMENT OF UTILITY SERVICES





"NOT IN MY BACK YARD!"

An innovative community outreach program for a new water reclamation facility

Kathleen Richards, City of Henderson, Nevada



The Context - City of Henderson

- Active bedroom community experiencing double-digit annual growth, approaching 270,000 residents
- Historically a leader in water reclamation
- Currently reuse 34% of our wastewater
 - Up to 100% in peak demand summer months
- Water reclamation essential component to Southern Nevada's water resource portfolio

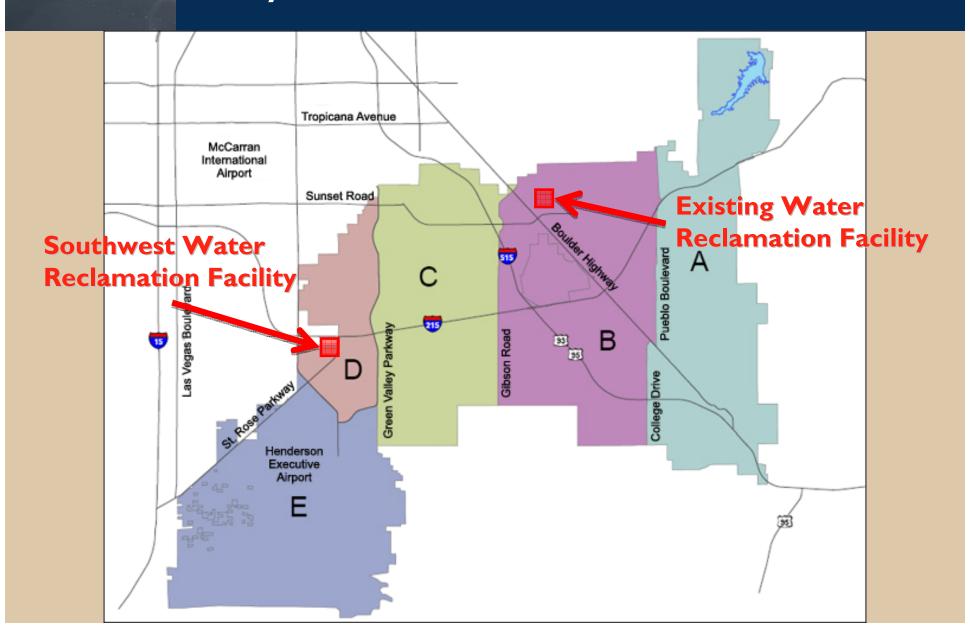


Project History

- 2000 Determined a need for a satellite water reclamation facility
 - 8 MGD expandable to 16 MGD; membrane bioreactor technology
- 2002 Site selected from 48 alternatives based on weighted criteria
 - Best site located adjacent to rural preservation district, a politically active neighborhood
- 2003 Formed the Neighborhood Advisory Committee



City of Henderson Environs





Project Site





Community Outreach Program

- Twelve Neighborhood Advisory Committee meetings between July 2003 and August 2007
 - Develop meaningful and production partnership with the community
 - Inform community about the water reclamation process
 - Maintain open and honest communication
 - Document and address neighbor concerns
 - Gain neighbor input on project characteristics
 - Gain project acceptance



Tours of Similar Facilities





Printed Materials

July 2002

Facts about...

March 2007





The Southwest Water Reclamation Facility

Dear Neighbor:

We are pleased to send you this update on the progress of the City of Henderson's Southwest Water Reclamation Facility, which will break ground in your area in the coming months. Thank you to all who have participated in the planning and design of this important community facility. We are pleased with how this project has developed, and look forward to continued interaction with our neighbors.

SWRF History

The Henderson Southwest Water Reclamation Facility has been in the planning, design and engineering phases since 2003. Concurrent with that effort, a Neighborhood Advisory Committee has worked to develop the landscape and amenities that will occupy a large portion of the site. Their input has been important in creating a facility that will be a good neighbor and provide attractive benefits to the surrounding community.

The Coming Months



Work will begin at the site in late May. Site grading will proceed first, including the construction of a landscape berm to screen the neighborhood from the treatment facility. This is also the first step in the placement of landscape materials. The entire outside landscape of the site will be completed prior to the construction of the facility itself, helping to minimize the impact of that construction on those who live near the site.

During this first phase, there will be considerable activity on the site that will be visible to neighbors. To help minimize the impact on those who live and work close to the site, the City intends to do the following:

- Site work during this phase will be limited to the hours between 6:00 a.m. and 6:00 p.m. This includes all construction and equipment maintenance activities.
- · Dust control permits will be strictly followed, with water tanks and trucks on site to
- . During the entire construction period, a web site will be maintained to track progress and give detailed information about the project.
- · Community meetings will be held as needed during construction to address questions and gather input from our neighbors.
- · A direct contact will be available throughout the project construction for your questions or concerns.

Following the first phase of landscape and site work, construction on the facility will begin in late December 2007, with the reclaimed pipeline construction scheduled to begin in the 2nd quarter of 2008.



ELECTRICAL POWER CONDUIT INSTALLATION

SOUTHWEST WATER RECLAMATION FACILITY

What's happening in your neighborhood

The Department of Utility Services' nission is to provide vital water and ater services to our citizens while

Work will be conducted Monday through

The City of Henderson's Department of Utility Services provides your water and sewer services. To increase our sewer system's capacity and improve our ability to recycle our community's wastewater resources, we are constructing the Southwest Water Reclamation Facility (SWRF) on St. Rose Parkway just west of Coronado Center Drive. As part of that project, the City's contractor will be installing conduit (basically pipe) on behalf of the power company, who will use that conduit to install their power cables.

Why is this project necessary?

We must provide two separate and reliable electrical power sources to serve the SWRF. This project is the installation of our connection to one of those power sources.

What will be happening?

The contractor is going to dig a narrow trench along the edge of Carnegie Street, turn north along Cozy Hill Circle, turn west along the Armagosa Corridor between Cozy Hill Circle and Coronado Center Drive, then north along Coronado Center and across St. Rose Parkway (see map below). The contractor will fill the trench as the conduit is installed, and cover any open holes each night with metal plating. Construction through this area should be completed in approximately four weeks.

How will this construction affect you?

The road shoulder and adjacent sidewalk will be closed for short intervals.











Project Website





Meetings and Workshops





Neighborhood Concerns

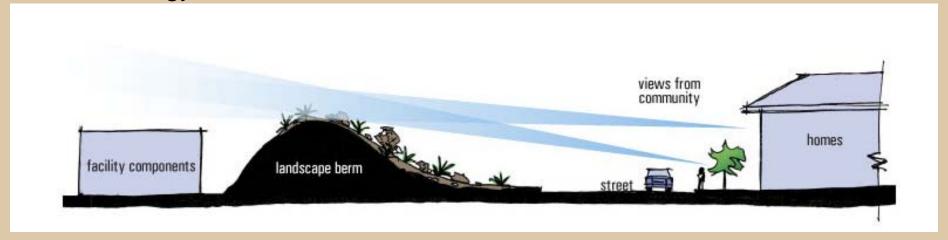
- Odors
- Noise
- Aesthetics
- Traffic
- Chemicals





Design Strategies

Stealth Strategy



Disguise Strategy





Process Boundaries

- NAC had considerable control over what the outside of the facility would look like
 - Selected design strategy of landscaped berms to shield the facility from neighborhood
- City and consulting engineers responsible for everything inside the berms



Project Design - Aerial View





Project Design - Front View







Project Design - Neighborhood





Project Under Construction







Continued Outreach Activities

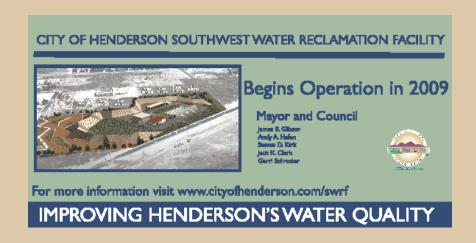
- Groundbreaking ceremony
 April 30, 2008
- Continue to meet as needed to discuss construction activities
- Begin operations in 2010





Lessons Learned

- Neighbors appreciated the opportunity to participate and "be heard"
- Consensus was reached, but it did not always mean cooperation
- Clear goals and well-defined boundaries are critical to the community outreach program's success



DEPARTMENT OF UTILITY SERVICES





Kathleen Richards

Senior Public Information Specialist
City of Henderson, Department of Utility Services kathleen.richards@cityofhenderson.com
(702) 267-2516

cityofhenderson.com/swrf