



WATER & NATURAL ENVIRONMENT

Points for Council Discussion

- **Confirm Desired Outcomes**
- **Water Quality**
Park City faces unique water quality challenges in potable and stream water quality due to the nature of our sources. These challenges coupled with future trends in increasing regulation and monitoring requirements will require the City to develop and maintain a sophisticated water quality program. Metals continue to be a concern and are being considered through integrated water resource planning.
- **Water Supply, Storage and Collaboration**
Park City is currently participating in the Western Summit County Wholesale Water Importation Project (WSCWWIP) due diligence study. This project will consider a regional water system which local water districts will be able to share resources to meet long term water source and storage needs.
- **Water Capital Improvement Program**
Significant improvements to the water infrastructure system have been constructed over the last 5 - 7 years. Most recently the Rockport importation and treatment project was finished and will come online late winter of 2012. As we look forward, there are many more exciting projects to be completed including renewal and replacement projects, advanced treatment projects, UPDES treatment facilities, and raw water system improvements.
- **Increased Utilization of Renewable Energy**
Through the Environmental Strategic Plan, City Council has supported an increased utilization of renewable energy (Objective 2.3) and a reduced carbon intensity of the electricity utilized in Park City (Objective 1.4). Staff has become familiar with alternative possibilities for expanding the portfolio of solar energy in the region through myriad financing mechanisms, although most require financial investment from PCMC. Staff is also participating in a new coalition of local governments in Utah with the intent of spurring more solar development.

Quinn's Junction Water Treatment Plant, July 2011



McLeod Creek Intake Structure, December 2011



12/21/2011

This goal is to develop and support actions to protect the long term health of community and natural environment and to provide a safe, clean, and reliable water supply, 24 hours a day, Today and Tomorrow...

Park City recognizes the level of trust in providing water in the necessary quantity and quality that is essential to health, public safety, recreation opportunities including world class skiing and golfing, and stream water while protecting the overall environment in which we all live.

Park City operates and maintains one of the most complicated water systems in the west which includes advanced water treatment and delivery for potable, irrigation, and snow-making purposes. Surface water management is a critical aspect of this to protect stream water quality. Park City also faces unique challenges resulting from historic mining activities and seeks to improve the environment by mitigating those impacts.

The City is committed to providing the highest quality of service to meet the community's needs.

Community Vision

The goals of Water and Natural Environment ensure adequate water supply through continued system maintenance and improvement to support public health and safety and recreational lifestyles enjoyed by residents, second homeowners and visitors from around the globe. We also strive to improve environmental quality by addressing past impacts while simultaneously decreasing our current and future environmental footprint. This vision supports World Class Recreation and quality of life on many levels.

Desired Outcomes

The Community and the City Council have identified the following desired outcomes related to Water & Natural Environment:

- Secure Water Rights, Leases & Agreements, and Source Redundancy
- Water Quality, Customer Confidence/Service, and Conservation
- Adequate & Reliable Infrastructure & Financial Stability
- Storm Water Management
- Increased Utilization of Renewable Energy
- Reduced Municipal & Community Carbon Footprints
- Economically Feasible Soil Disposal Options

Key Strategies

The following strategies have been identified as critical for achieving the Desired Outcomes:

- Regional Partnerships
- Protect and Manage Existing Sources
- Balance Additional Source & Storage
- Enhance Water Quality Program
- Water Conservation Plan
- Water Infrastructure Master Plan
- Asset Management
- Public Involvement
- Regulatory Compliance
- Storm Water Master Plan
- Partner with Regulatory Agencies
- Securing Financing
- IT Resource Planning and Utilization

The State of Water & Natural Environment

Park City Water has secured enough water to meet demands for about the next 10–15 years and we continue to seek additional sources to meet build-out demands. Despite recent water quality challenges, the water supply is safe, reliable, and constantly improving. Financial planning continues to be a high priority as we begin to plan the next round of large infrastructure projects.

Recent Successes

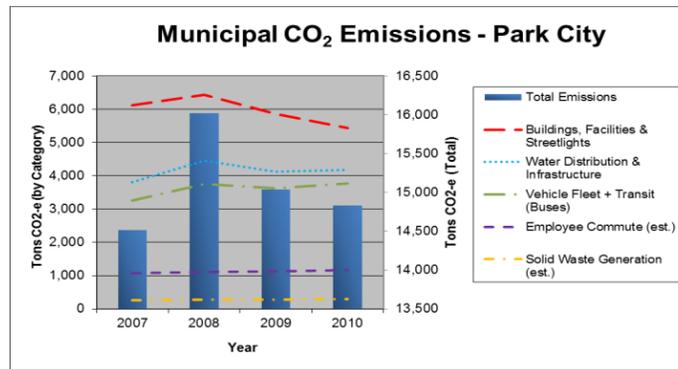
- Completion of the Holiday Ranch Irrigation and Intake Structure
- Completion of AMR
- EPA Green Power Community of the Year Award in 2010
- Awarded \$381,000 in energy grants
- Municipal solar projects at four building locations + eight water sites

- 29,000+ visits to ParkCityGreen.org
- Pumping efficiencies (VFD's)

Current Challenges

- Water Supply for Build Out
- UPDES Permit Compliance
- Mine Tunnel Management
- Regional Utility Collaboration
- Regional Regulatory Collaboration
- Irrigation/Snowmaking Deliveries
- Program Funding
- Water Rates
- Water Quality
- End User Engagement
- Managing Environmental Liabilities
- Keeping up with Technology
- Soil disposal limitations
- Public Outreach
- Storm Water Master Plan

Core Indicators



Utility Services Benchmarks				
	Park City average rating	Rank	Number of Jurisdictions for Comparison	Comparison to benchmark
Power (electric and/or gas) utility	70	6	78	Above
Sewer services	68	47	227	Above
Drinking water	42	207	226	Much below
Storm drainage	67	9	263	Much above
Recycling	71	84	249	Much above
Garbage collection	75	57	267	Above

Community Environment Benchmarks				
	Park City average rating	Rank	Number of Jurisdictions for Comparison	Comparison to benchmark
Cleanliness of Park City	80	11	150	Much above
Quality of overall natural environment in Park City	84	3	148	Much above
Preservation of natural areas such as open space, farmlands and greenbelts	69	10	148	Much above
Air quality	81	5	185	Much above

Where Do We Go From Here?

Industry Trends

- Increasing Regulations
- Advanced Treatment & Monitoring
- Integrated Water Resources Planning
- Increased use of New Technology
- Energy Cost Inflation

Potential Level of Service Changes

- Public Information Availability
- Affordable Soil Disposal
- Improved Environmental Resources

New Opportunities

- Advanced Water Treatment Leading to Improved Water Quality
- Enhanced Monitoring
- Regional Collaboration
- Sustainable Business Program
- Climate Adaptation Planning
- Renewable Energy Financing
- Advancing Technologies
- Recycling Center Relocation
- Collaboration with JSSD
- Micro-Hydro Systems

Action Plan

2013-2014 Biennium

Operating Plan

- Quinn's Junction WTP
- McLeod Creek Intake Start up
- Sampling Plan
- Blending and Source Management Program

Capital Plan

- UPDES Related Facilities
- Pipeline Projects, Raw & Potable
- Replacement and Renewal Projects
- Soil Repository

Other Targets for Action

- Pursue Water Importation Options
- Integrated Water Solutions

Long Term Action Plan

- Integrated Drinking Water and UPDES Facilities for Compliance and Public Health
- Round Valley Reservoir
- Additional Water Procurement
- Continuous Tunnel Maintenance
- Water Conservation
- Continue to Improve Public Perception
- Monitor Regulatory Trends
- Improved Condition of the Natural Environment.
- Increased efficiency, public information, and data base management using technology
- New Soil Repository

Related Documents of Note:

- Water Conservation Plan
- Water Master Plan
- Environmental Strategic Plan
- Save Our Snow Community Action Plan
- Solid Waste Strategic Plan