



January 10, 2008

TO: Doug Baker, City Administrator

FOR: City Council

FROM: Public Works Department

RE: **PUBLIC WORKS DEPARTMENT REPORT -- 4<sup>th</sup> QUARTER, 2007  
OCTOBER, NOVEMBER & DECEMBER**

I. MAJOR PROJECTS

**Transportation**

- A. Tumwater Boulevard Improvements – Capitol Boulevard to I-5 (2000008) / Status: Active
- A few punch list items remain for the contractor to finish before this project will be physically complete.
  - Staff and the contractor are continuing with paper work and other issues to close out the project.
- B. Littlerock Road – Trospen to South City Limits (2000007) / Status: Active
- Staff awaits a permit from the Department of Archeology & Historic Preservation (DAHP) to perform exploratory work on the Union Cemetery. The work done to date for DAHP approval has been performed by Archeological & Historical Services from Eastern Washington University, who will also oversee the exploratory work.
  - PSE is expected to provide the city with a project plan, estimate and construction agreement for Council review and approval for the conversion of the overhead power. There will be 37 individual services to convert.
- C. Trospen Road Widening @ Skipper Lane (2002003) / Status: Active
- The final piece of right-of-way has been obtained.
  - Plans for construction will be finalized and added to the Littlerock Road project.
- D. North Street Reconstruction (2005011) / Status: Active
- Right-of-way certification is being conducted by WSDOT Real Estate Services. Upon completion, a supplemental local agency agreement will be submitted to WSDOT Highways & Local Programs for construction funding approval.

- Staff is anticipating receipt of the PSE project plan, estimate and construction agreement for Council approval for the Schedule 74 overhead power conversions. There are 31 individual services to convert.
  - Staff will focus on completion of construction documents in January and meet with City of Olympia and Thurston County staff to discuss traffic issues during construction.
- E. Tumwater Town Center Connector (2005021) / Status: Active
- Preferred alignment has been selected by the Council.
  - Discussions with stakeholders for implementation are on-going.
- F. Tumwater Boulevard/I-5 Interchange (2004015) / Status: Active
- Two workshops to develop project selection criteria and project alternatives have been completed. The consultant is completing the evaluation of the alternatives.
- G. Deschutes Way Bike/Pedestrian Improvements (2006010) / Status: Active
- Environmental work is complete.
  - Plans and specifications will be completed for Summer 2008 construction.
- H. Henderson Boulevard Railroad Crossing (2003021) / Status: Active
- Union Pacific Railroad has installed the new signal equipment, but has not committed to a date for construction of the grade crossing.
- I. 2007 Sidewalk Improvements, Infill & Traffic Calming / Status: Inactive
- J. 2025 Transportation Plan (2005012) / Status: Active
- The plan has been approved by the Planning Commission and forwarded to the City Council for consideration. A public hearing is scheduled for January 15, 2008.

### **General Government**

- K. Tumwater Valley Trail, Phase I / Status: Active
- L. Pioneer Park Phase III / Status: Active
- Public Works staff continues to assist the Parks & Recreation Department in procuring environmental approvals.

### **Water**

- M. Telemetry System Upgrade (07393) / Status: Active
- Staff will seek authority to solicit proposals in 2008.
  - Staff has been, and continues to pursue installation of conduit for fiber optic cable to each of our telemetry sites for improved communications.

- N. Southwest Well Development (2003012) / Status: Active
- Staff is pursuing water rights. Modeling suggests that mitigation will be necessary for any transfer.
  - Staff is working with the consultant to develop mitigation options.
  - Negotiations are underway to secure withdrawal locations.
- O. Custer Way Water Improvements (2004016) / Status: On Hold
- It has been decided to postpone the water main replacement portion of the Custer Way project until a better plan can be established for the portion of Custer Way that still has a concrete slab under the existing pavement.
- P. Palermo Wellfield Improvements (2006014) / Status: Active
- Phase 2 field analysis work is underway.
  - Staff will seek authority to solicit proposals to drill test wells at identified locations.
- Q. Water System Disinfection (2006024) / Status: Active
- HDR Engineering, Inc. has prepared the draft DOH report detailing treatment selection and infrastructure needs.
  - Final report will be sent to DOH in February.
  - Upon approval from DOH, Phase II, design of disinfection facilities, will be underway.
- R. Wellhead Protection Program - 2007 (2007003) / Status: Active
- Staff is coordinating with Thurston County Environmental Health staff to continue wellhead protection area inspections that began during the last quarter.
- S. Water Conservation Program - 2007 (2007004) / Status: Active
- Free indoor water saving kits, automatic shut-off spray nozzles, rain gauges, outdoor watering guides, and \$10 rebates for purchase of a rain barrel are available to all water customers. Free hose timers for residents irrigating manually are also available.
  - Outdoor irrigation audits for 2007 are complete for the season. Staff will work with SK Associates to incorporate recommendations for the 2008 program.
  - Staff is reviewing innovative options for conservation measures for the institutional, commercial and industrial sectors.
  - Water Use Efficiency Rule: The city is required to set a quantifiable conservation goal by January 2008. Staff will present a resolution to the Council for consideration in January 2008 incorporating the regional goal plus additions for savings in irrigation conservation.
  - Column space in The Olympian for 2008 water conservation information has been secured.

**Sewer**

- T. Southern Connection – Local Piping (Custer Way Sewer (2005018) / Status: Active
- Final work on the plans and specifications is in process.
- U. 2006 Annual Sewer Rehabilitation Program (2005029) / Status: Active
- Staff awaits receipt of the final contract voucher from the contractor prior to requesting Council acceptance of the work.
- V. Littlerock Road Interceptor (2006002) / Status: Active
- All of the sewer main is installed.
  - The contractor is working to correct some deficiencies prior to decommissioning the lift stations on Miner Drive and at 73<sup>rd</sup> Avenue.
- W. LOTT-Funded Water Conservation Programs / Status: Active
- The “Wash Wise” washing machine replacement program continues in 2008 complemented by rebates from Puget Sound Energy. A total of 121 rebates were given out in 2007.
  - The Water Smart Technology program continues. Staff completed revisions to the program to encourage more participation from local businesses, and are now offering rebates of 75% for retrofitting existing facilities to be more resource efficient.
  - Staff is working with the Tumwater School District to completely retrofit facilities for 100% water efficient fixtures.
  - Options to encourage placement of resource-efficient fixtures in new development are being investigated, and staff is reviewing ultra-low flush fixtures for potential distribution to residential customers.
  - A high-efficiency toilet replacement program is being initiated for both residential and commercial customers. This direct install pilot program will replace 1.6 gpf toilets and higher with 1.28 gpf or less toilets.

**Storm**

- X. East Capitol Boulevard Area Outfall Improvements (2007009) / Status: Active
- The drainage pipe has been replaced, but the contractor could not complete all of the restoration due to poor weather.
  - Some of the completed work was damaged by flooding in December and will have to be repaired when weather permits.
- Y. Salmon Creek Basin / Status: Active
- Pacific Groundwater Group is the city’s consultant for third party review of high groundwater related projects.
  - An “integrated guidance” document for developers interested in working within high groundwater areas has been completed including a work-around for developers using Ecology’s WWHM model to incorporate data

for city compliance.

- Z. Barnes Lake Management District (LMD) (2007005) / Status: Active
  - The Barnes LMD steering committee continues to meet monthly.
  - The 2008 budget and work plan is being developed.
  - The Aquatic Vegetation Management Plan is finalized and is available on the city's website.
  - Northwest Aquatic Ecosystems completed three vegetation treatments in 2007. Partial results of the treatments can be seen from aerial photos taken by staff on the BLMD's page of the city's website.
  - Treatment plans are being revised to address complications during the 2007 season.
  
- AA. Barnes Lake Basin Assessment (2007014) / Status: Active
  - The hydrogeological evaluation of the Barnes Lake system by Golder Associates is underway.
  
- BB. Drainage Manual Revisions / Status: Active
  - The drainage manual is in the final stage of review. Staff is coordinating with the regional partners to complete final text revisions and usher through adoption.
  - The regional stormwater TAC is developing a training program for internal staff.

## **II. SIGNIFICANT ACTIVITIES**

- A. Consumer Confidence Report, 2006
  - Complete.
  
- B. Cross Connection Control
  - A cross connection control site has been added to the city's web site allowing the public access to educational information and on-line submittal of the required survey.
  
- C. Water Rights
  - Staff continues to pursue leads on additional water rights for transfer to the Southwest well field.
  - Staff is reviewing reports on the Northeast well field and will begin negotiations with DOE when review is complete.
  - An ordinance requiring the dedication of existing water rights to the city as a condition of service is being developed.
  
- D. Well Drilling Ordinance
  - Staff is considering language to limit the drilling of new wells for potable use to further protect groundwater sources, and to require transfer of water rights from large developments seeking annexation and water service.
  - A similar ordinance will be required by the EPA due to conditions at the

Palermo Superfund site.

E. Water Quality

- Results of the Phase II study to assess the effects of perchlorate on shallow groundwater at Tumwater Valley have been received. Staff is reviewing the report and preparing results for presentation to Council.
- Staff is conducting on-going monitoring of groundwater to examine annual trends.
- Lead & Copper Monitoring Program:
  - Thirty-five customers participated in the 2007 sampling.
  - One sample exceeded levels for lead; the customer has been notified and provided guidance.
  - The city remains in compliance; however increasing levels indicate disinfection may be increasing corrosivity of the water. Staff will be researching other possible causes and solutions.

F. FOG (Fats / Oils / Grease)

- Staff continues to work with businesses to reduce FOG-related materials in the waste stream.
- Staff is working with LOTT in the development of a potential regional program.

G. LOTT Pretreatment Ordinance

- The city adopted new regulations in September designed to reduce the overall regulatory burden for both commercial/industrial users and city staff without adversely affecting environmental quality.

H. Stream Team

- Partnered with Lacey, Olympia, and Thurston County to provide regional programs including:
  - Quarterly newsletter written, edited and distributed.
  - Taught 4<sup>th</sup> grade classes about salmon at Tumwater Falls Park.
  - Organized and presented "Water World" events at Stream Team's Haunted Hike on October 20<sup>th</sup>.
  - Presented chum salmon lecture to public on October 24<sup>th</sup>.
  - Coordinated with Thurston County and WSU Native Plant Salvage Project to present Rain Garden workshop series in 2008.
- Salmon Stewards:
  - Coordinated Salmon Steward program for Tumwater Falls Park.
- Deschutes River Habitat Enhancement:
  - Site 130 bank stabilization and habitat enhancement project planting completed November 17<sup>th</sup>. Plant materials donated by WSU Native Plant Salvage Project.
- Percival Creek Habitat Enhancement:
  - Baseline bird study completed.
  - Willow planting project held on October 13<sup>th</sup>. Plant materials donated by Drewry family.
  - First Chinook salmon seen just downstream of Sapp Road.

- Tumwater Falls Harvest Fest: Presented Stream Team educational program for Harvest Fest, including Salmon Stewards and the presence of FIN.
  - Storm Drain Marker Program: Markers and adhesive provided to new developments. Littlerock/70<sup>th</sup> Avenue annexation area planned for next marker campaign.
  - South Sound GREEN (Technical Advisory Committee Chair):
    - Coordinated quarterly meeting and funding.
    - Received “Partner of the Year” award.
  - Friends of the Deschutes Watershed Center (FDWC) (President):
    - Led monthly meetings.
    - Assisted with FDWC salmon bake for Harvest Fest.
    - Natural Resources Youth Camp Board (Vice-Chair): Attended 2008 camp planning meetings.
    - Northwest Aquatic & Marine Educators (NAME) (Regional President): Secured sponsorship of 2008 Stream Team event featuring Jean Michel Cousteau.
  - Interjurisdictional Committees:
    - Served on EETAC (Environmental Education Technical Advisory Committee) to coordinate education efforts within the county.
    - Provided technical support to WRIA 13 advisory group (oversees local salmon recovery projects for SRFB funding requests) Voted to support crossing Water Resource Inventory Area boundary to help fund Nisqually estuary restoration.
    - Served on TME3 (Thurston-Mason Education, Environment & Economy) committee. Edited final draft of TME3 plan for non-formal public education.
- I. Fish Rearing Facility
- Washington Fish & Wildlife (WDFW) continues with planning and design. \$2.3 million was allocated by the Washington Legislature for Phase 1 (design, permits, water rights).
- J. Stormwater Management
- The regional stormwater management team revised the interlocal cooperation agreement, extending the regional program to 2010.
  - Ecology released the final NPDES Phase II permit in February. Staff is reviewing the permit to incorporate program needs and determine a timeline for compliance.
  - Staff training for CESCL (Certified Erosion & Sediment Control Lead) was attended in October by three staff. More CESCL trainings will occur in 2009.
  - The regional West Nile Virus (WNV) outreach committee continues to monitor the area. The regional work group will convene in March 2008.
  - Staff continues to develop and implement an on-going inspection program for private stormwater facilities.

- K. Utility Shut-Off Notices
- 280 notices were delivered in October, with 33 actual disconnects.
  - 414 notices were delivered in November, with 55 actual disconnects.
  - 328 notices were delivered in December, with 42 actual disconnects.
- L. New Utility Service Installations
- Operations staff installed 52 water meters for new construction and 31 other requests for new water services in the 4<sup>th</sup> quarter.
  - There were 37 new requests for sewer connections from Development Services in the 3<sup>rd</sup> quarter.
- M. Other Maintenance Activities
- 343 "One Call" utility locates were requested in the 4<sup>th</sup> quarter of 2007.
  - 103 citizen action requests were completed in October, 92 in November, and 108 in December.
- N. Survey, Mapping & GIS
- Phase II of GBA implementation in progress.
  - Survey/mapping support in Eden System implementation:
    - Fire hydrant inventory 95% complete.
    - 2006 aerial ortho photography from Thurston County available for use by city staff.
    - Collection of as-built data for input into ESRI GIS/GBA is in progress.
- O. Education / Training / Workshops
- October 1-3 City Surveyor Frank Jackson attended the GBA 2007 ACT Conference held in Kansas City, Missouri.
  - October 15-18 Frank Jackson attended Eden Conference in Denver.
  - Water Resources Manager Dan Smith attended the "Optimizing Water Conservation Measures & Goals" in Everett on October 24<sup>th</sup> by the Partnership for Water Conservation.
  - Design/Construction Manager Jim Shoopman attended the "Managing Schedules & Delays During Construction" workshop on November 29<sup>th</sup> in Seattle.
  - Engineer II Doug Johnston, Operations Manager Steve Craig, and Skilled Worker Steve Whalen attended the ½ day "Risk & Roads Workshop" sponsored by WCIA on December 6<sup>th</sup> in Seattle. WCIA reimbursed the city for the cost on one registration.
- P. Personnel
- As of November 1<sup>st</sup>, Skilled Worker Ernie Zabala assumed the duties of the Traffic Signal and Streetlight Technician in Operations, filling the position left vacant by Tom Reed's retirement last August.