

# Public Works Department Monthly Status Report Summary – November 2010

For the Month of November 2010		
Division	Service Requests	Work Orders
Administration	419	
Electrical	30	86
Facilities	42	46
Fleet		167
Sewer	7	50
Signs & Markings	9	58
Storm Drain	3	24
Streets	26	54
Urban Forestry	17	11
Water	121	206
Grand Total	674	702

**Service Request** – Every time a request for Public Works services is made by phone call, written request, emailed request, or an actual one-on-one request to a PW employee, a **'Service Request'** is generated. This builds a computerized record of all requests made.

Work Order – A 'work order' is created each time a work crew or individual is assigned a task as a result of either service requests, pre-planned maintenance projects, or by other situations as they arise. This produces a database of work accomplished and the time and materials it took to do the work.

Total for Calendar Year 2010 Through 11/30/2010		
Service Requests	Work Orders Complete	
13,429	9,775	

With **674 Service Requests received**, Public Works crews handled **702 Work Orders** for the month of November. They included:

# **Operations & Maintenance**

## Administration:

- The administration team received 674 Service Requests; 419 of which were handled through the front desk, and the other 255 requests were distributed to the appropriate division. (see chart above)
  - 31 Backflow Notifications were mailed to responsible parties regarding testing requirements
  - ♦ 329 Underground Service Alert (USA's) requests processed

#### Electrical:

- 46 Street Light Work Orders
  - 41 Street Light Services
  - ♦ 1 Inspection
  - 3 New Installations
- 16 Traffic Signal Repairs
  - ◆ 1 Locate Service Request
  - 1 Pedestrian Indicator Repair
  - 3 Pole Knockdown Repairs
  - 5 Signal Repairs
  - ◆ 1 Timing Check

- 2 UPS Maintenance Services
- Inspection
- Asset Management
- ♦ Bi-Monthly Inspection
- 2 Facility Service Requests
- 7 Water Pollution Control Facility Service Requests
- 9 Well Site Services (Install/Upgrade, Testing, Data Retrieval, SCADA Modification)
- Received/marked 329 Underground Service Alerts (USA's)

## Facilities:

- 4 Repairs to City Hall
- 4 Repairs to the Library
- 11 Repairs to the Municipal Service Center
- 14 Repairs to the Police Department
- 6 Repairs to the Water Pollution Control Facility
- 7 Repairs to Fire Stations 1,2 & 3

# Fleet:

• 167 Work Order Repairs to 83 different units (vehicles, apparatus & equipment)

## Sewer:

- 25 Sewer Cleanout Services
  - ◆ 19 Preventive Maintenance Services Installation
  - 1 Reactive Maintenance Services Installation
  - 5 Inspections
- 6 Gravity Main Services
  - 1 Preventive Maintenance service utilizing the HVVC (High Velocity Vacuum Truck)
    - 520 Linear Feet Cleaned
  - Routine Inspections
  - Routine Maintenance
- 14 Sewer Lateral Services
  - 6 Service Location Requests
  - 1 Preventive Maintenance Service utilizing the CCTV
  - 1 Preventive Maintenance Service utilizing the HVVC
  - 1 Lateral Line Replacement
  - 1 Lateral Line Repair
  - ◆ 1 Line Rodding Service
  - ♦ 2 Root Control Services
  - 1 Sanitary Sewer Overflow Event
- 5 Manhole Services (flushing & repair)
- Received/marked 329 Underground Service Alerts (USA's)

# Signs & Marking:

- 8 Guide Sign Services
  - 1 Knockdown Repair
  - ♦ 4 Routine Maintenance Services
  - 3 Signs Installed
- Raised Pavement Markers

- Repair/Replacement Maintenance Services
  - 150 Markers Installed
- 21 Regulatory Sign Services
  - ♦ 21 Routine Maintenance Services
    - 110 Signs
  - ♦ 2 Knockdown Services
    - 2 Signs
  - 4 Installation Services
    - 7 Signs
  - Graffiti Removal Services
    - 5 Signs
  - Surveying
- 4 Street Marking Services
  - Routine Maintenance
  - Surveying
- 9 Warning Sign Services
  - 3 Graffiti Removal Service
  - ♦ 5 Routine Maintenance Services
  - Surveying
- 3 Banner Services
- 1 Community Billboard Change Out Service

## Storm Drain:

- 5 Gravity Main Services
  - ◆ Preventive Maintenance CCTV Inspections
  - Routine Maintenance
- 1 Gutter Service
  - Illicit Discharges
- 9 Inlet Point Services
  - ♦ 2 Illicit Discharges
  - ♦ 3 Inspections
  - ♦ 4 Rain Duty Services
- 7 Lift Station Services
  - ♦ 2 Inspections
  - ♦ Routine Maintenance
- Open Channel Maintenance/Inspection
- Culvert Inspection
- Sample Station Quarterly Inspection
- Routine Maintenance

### Streets:

- Road Edge Services
  - Curb & Gutter Spot Repair
    - 1 Square Feet
- Hardscaped Median Maintenance
- Parking Lot Services
  - Skin Patch Services
    - 278 Square Feet
- 22 Sidewalk Path Services

- Graffiti Removal
- Grinding
  - 99 Linear Feet
- 8 Spot Repairs
  - 252.5 Linear Feet
- 25 Road Services
  - ◆ 1 Base Failure Repair
    - 570 Square Feet
      - o 21.65 Tons of A.C.
  - Crack Sealing
    - 81,092 Linear Feet
  - Pot Hole Patching
    - 329 Pot Holes Patched
  - Road Grading
    - 7,200 Square Feet
  - Skin Patching
    - 506 Square Feet
  - Surveying
  - Traffic Control
  - Trench Repair
    - 445 Linear Feet
  - Trash & Debris Clean-Up
  - Weed Abatement

## Urban Forestry:

- 1 Hazardous Situation Response
- 1 Abatement
- 7 Tree Plantings
- Small Tree Care

## Water:

- Produced 237,761,280 gallons of drinking water in November
- Received/marked 329 Underground Service Alerts (USA's)
- 1 Backflow Investigation
- 7 Control Valve Services (exercise, locate, repair, replace, water turn off/on)
- 19 Hvdrant Services
  - 7 Flushing Services
  - ♦ 6 Maintenance Services
  - ♦ 4 Repair Services
  - 2 Replacements
- 2 Lateral Line Services
  - 1 Repairs
- 67 Lateral Valve Services
  - ◆ 1 Service Valve Box Installation
  - ♦ 19 Leak Detection Services
  - ♦ 35 Locate Services
  - 1 Relocate Service Request
  - ♦ 8 Water On/Off Services (Finance, Contractor, Homeowner Request)
  - 3 Repair/Replace Service Valve Services

- 39 Meter Services
  - ◆ 12 Meter Investigations
  - 21 Meter Repairs
  - 4 Meter Maintenance Services
  - ◆ 1 Meter Box Replacement
  - Residential Meter Reads
  - Meter Reads Commercial Utility Accounts
- 17 Pressurized Main Services
- 51 Production Well Services
  - 19 Inspections
  - ♦ 20 Maintenance Services
  - Sampling
  - No3 Monitoring
  - Disinfection Procedures
  - Security Services

# **Environmental Services**

#### General:

- Promoted Master Gardeners Fall Composting Workshop; conducted event outreach on composting, pesticide reduction, irrigation efficiency and other water conservation issues. Distributed 21 composting guides, 21compost wheels, 14 compost bins, 25 hose nozzles, 25 soil moisture meters, 51 water conservation hand-outs, and 10 pesticide management brochures.
- Distributed 200 copies of June Water News, Water-Wise in Woodland, California Water Facts brochures, recycling brochures, and energy conservation brochures and 100 kids recycling activity books to Turkey Run participants.
- Continued joint promotion of Wastewater Pretreatment Program's Turkey Fryer Grease and Cooking Oil collection event.

## Solid waste/recycling:

- Completed coordination of independent performance review of Waste Management of Woodland and presented results to Solid Waste Committee.
- Monitored C&D debris recycling for 25 active projects.
- Distributed 63 flyers for toters blocking public sidewalks.
- Issued code compliance notice for junk/debris.
- Obtained Energy Committee and Solid Waste Committee endorsement of Council resolution to support Extended Producer Responsibility.

## Green waste:

- Issued 55 green waste violation door hangers, and conducted 11 code compliance follow-ups. November green waste statistics show that 51% (658 tons) was collected in carts while 49% (620 tons) was collected in street piles.
- Processed rebates for 2 compost bins and 1 mulching mower.
- Mailed 163 letters and Waste Management newsletters reminding landscapers and property managers about green waste program guidelines.

#### Water conservation:

 Provided troubleshooting assistance on 7 major residential water leaks. November leak repairs based on metered sample bills with city assistance saved an additional 482,041 gallons per month, bringing cumulative estimated monthly water savings from repairs of major residential leaks to 3.6 million gallons per month.

Investigated 4 water waste/nuisance complaints

## Stormwater:

- Coordinated stormwater pollution prevention plan (SWPPP) inspections for 8 active construction sites and 4 inactive sites.
- Issued code compliance/abatement notice for mud tracking incident.

# **Water Pollution Control Facility**

# Laboratory

- Collected samples and performed over 300 process control and National Pollutant Discharge Elimination System (NPDES) permit compliance tests for the wastewater treatment plant.
- Collected monthly influent, effluent and receiving water monitoring samples; submitted to contract laboratories.
- Collected samples and performed 45 tests on treatment plant storage ponds.
- Prepared monthly, quarterly, semi-annual and annual Discharge Monitoring Reports and electronic Self-Monitoring Reports; submitted to the Regional Water Quality Control Board (RWQCB).
- Finished analytical work for ELAP certification of our ion chromatography system. Submitted results to ELAP.
- Performed quarterly Groundwater Monitoring; collected samples, performed in-house testing and submitted samples to contract laboratories.
- Collected samples and performed 150 regulatory compliance tests for potable water.

## Pretreatment

- Inspections
  - ◆ Auto Related Businesses 4
  - ◆ Food Service Business 7
  - ♦ Business of Concern 2
- Permit applications or permits 0
- Business License review/inspections 5
- Public education & outreach visits 32+
- Turkey Fryer Oil & Cooking Grease Recycle Event.
- Call-outs for spills/illicit discharges 0
- Sampling for electrical conductivity and salinity at Woodland Biomass and Culligan of Woodland
- Local Limits Sampling
- SWPPP inspections 5
- Plan review for Building/CDD 1
- Tyler-Eden Permit Training
- Development Review Committee meeting
- Monthly staff meeting/safety tailgate

# **Utility Engineering**

Utility Engineering Legend: Bolded text indicates new information

The initials enclosed in ()'s denotes the lead PW staff on the project.

(DB) Doug Baxter, Principal Civil Engineer (AO) Akin Okupe, Senior Civil Engineer

(MC) Mark Cocke, Senior Civil Engineer (CO) Clara Olmedo, Associate Civil Engineer

(MS) Mark Severeid, Lab Supervisor

Project: Yolo Bypass/City Storm Flows (MC)

Status: Th

The FEMA Contractor has started the Physical Map Revision (PMR) and should produce the Draft PMR in late September. The Draft PMR will be issued for public review and comment and finalized in about 90 days. If no substantial comments are received the Draft FIRM will be issued and the formal appeal process will begin. This will take six months. After the formal appeal process is completed the DFIRM is finalized and becomes effective six months after that date. This is expected to occur in January of 2012.

What's Next: The Preliminary PMR (PPMR) was issued on September 30, 2010. The

PPMR will be reviewed and commented on in the next two weeks. After that, the review process will begin and depending on comments or appeals, and available publication dates in the Federal Register, the PMR process and the issuance of the final Flood Insurance Rate Map

will occur in the next 9 to 15 months.

Project: Status: Wastewater Treatment Plant/NPDES Permit (5 Year Renewal) (MS/DB)

In February 2009 the final NPDES permit was issued by the RWQCB. The new permit requires the City of Woodland to move to an improved source water supply. It also requires significantly more testing and studies that will substantially increase operating costs. The California Sportfishing Protection Alliance (CSPA) has petitioned the adopted NPDES to the State Water Board and requested the State Water Board to hold the NPDES in abeyance for an unspecified period of time. The immediate impact on the permit is unclear at this time. But CSPA wants limits imposed on: Oil and Grease, and Settleable Solids. CSPA has also requested a complete rewrite of the NPDES permit. The State Water Board will hold a hearing to make a decision at some point in the future.

On April 12, 2010, Mayor Skip Davies, Councilmember Bill Marble, City Staff and City's permit writing consultant Dan Rich met with senior staff from the Regional Water Quality Control Board (RWQCB). The purpose of this City requested meeting was to verify that boron, salt and selenium final limits will be in our waste discharge permit, and that these limits will cause the City to move to an improved water quality supply or other substantially more expensive treatment processes. We discussed all the conceivable alternatives and why improving our water quality supply is

the least costly viable option. RWQCB made it clear that boron, salt and selenium final limits will be in our permit. RWQCB also said that they would enforce these limits with fines to eliminate all incentives to delay moving forward and that fines could be as high as \$10 per gallon per day of wastewater not in compliance (at current flows the fines would be up to \$60,000,000 per day). Under our current permit each year we have to submit compliance reports on moving to an improved source water supply. If we delay for example 2 years and saved \$11,000,000 in interest, the fines would exceed that amount to eliminate any incentive to delay implementation of salt reduction.

In July, staff met again with RWQCB staff to discuss the recent establishment of Selenium discharge limits and the process for requesting a 5 year Time Schedule Order (TSO) for compliance (to place minimum mandatory fines in abeyance) since we're pursuing completion of the surface water project. RWQCB staff cited recent case decisions that now preclude them from issuing a 5 year TSO if the date for coming into compliance is over five years away. The city was told we could resubmit when we're within 5 years of compliance (or approx Jan 2011). Pending that point, Woodland will experience minimum mandatory fines of up to \$12K per month. To date, the WPCF has 4 selenium violations and anticipates getting a Notice of Violation from the RWQCB soon. This will trigger the Mandatory Minimum Penalty stage of the violation process and will continue until the TSO is submitted and adopted by the RWQCB, in the **August** of 2011.

# What's Next:

The surface water project will continue to be pursued. Fiscal impacts of the permit will continue to be evaluated. Woodland staff met with the City Attorney to discuss options to the CSPA action. Staff advised the City attorney to meet with the Regional Board, to see if the Board would support a meeting with CSPA and the City. Regional Board said they will not support opening the NPDES discharge permit as a result of any agreements between the City and CSPA. So the City will wait and see if the State Water Board will agree to open the NPDES permit based on CSPA's petition at some later date. The hearing at the State Board could take up to two years before it's heard. Staff is looking into long-term planning options. Wastewater treatment long-term planning is underway.

The City of Woodland and the City of Davis evaluated the feasibility of combining treatment into a regional facility. The City of Davis is pursuing their own treatment facility. The City of Woodland will be updating the long-term facility plan for the Water Pollution Treatment Facility.

Project: Flood Protection (MC)

Status: DWR has reviewed the PMP and Cost Sharing Agreement and will

submit these to the Central Valley Flood Protection Board (CVFPB) for

approval on their September 21, 2010 meeting. Then the documents will be sent the Corps District HQ in San Francisco for review and comment. The Final documents will then be sent to the CVFPB and the local sponsors for final signature. This will formally reinitiate the Cache Creek Feasibility Study. Congress has appropriated between \$100,000 (Senate) and \$500,000 (House) for FY 2011. Skip Davies and Floodsafe Yolo met with Congressman Herger to discuss funding on August 18, 2010. The available funds will be decided during Conference Committee. A meeting with the Corps Staff, DWR Staff, Congressman Herger, and the City occurred on October 26, 2010. This tour was a result of the Tour that was held last April. Since April, the Corps has had a new Colonel and this tour was to familiarize him and DWR Staff on the complexities that will be examined during the Feasibility Study. Formal Start is expected in January 2011.

What's Next:

After the study begins, the first action will be to finish the hydrology and define the impacts associated with the Cache Creek Settling Basin. This will allow the Study to explore flood solutions that may involve modification of the Basin.

**Project:** Storm Drainage Enterprise Operation (MC)

**Status:** The RCD is developing the plan for the East detention Pond and

beginning a control program for management and eradication of invasive non native plants that have begun to occupy the site (tamarisk trees and pepper weed). The vegetation program in Stores Pond and around Fire Station 3 is proceeding well and should start greening up with the fall

rains.

What's Next: The RCD has developed the site plan using native salt tolerant

vegetation, and management of the existing vegetation. Native seed collection has been done and the adapted plant will be grown out over the winter. A draft plan for the East Detention Pond was received in

December and is under review.

**Project:** Surface Water Program (DB)

Status: The Woodland-Davis Clean Water Agency (Joint Powers Authority or

JPA) is overseeing the Davis-Woodland Water Supply Project. Agency Board meeting times are currently held **quarterly**. Meeting locations alternate between the Woodland and Davis City Halls. The new project website at wdcwa.com contains the meeting agendas and any notices for variations in meeting schedules or locations. The Agency General Manager is Dr. Eric Mische. The current focus on the project includes finalizing the pending 1994 water rights permit evaluation and selection of a river intake option. The current Agency focus also includes pursuit of Federal and State supplemental funding opportunities, further analysis and development of innovative facility procurement options, and further

development and implementation of community outreach and education opportunities.

Summer water purchase, land easements and use of the Sacramento River Intake agreements have been signed.

What's Next:

The water right hearing is scheduled for January 18-19, 2011. It may be a few months before water right discussion is issued by the State. Focus is now on the writing of the Design-Build-Operate (DBO) "Request for Qualifications" and clearing up land acquisition for the intake site and water treatment plant site.

**Project:** 

Replace Elevated Storage Tank (DB/AO)

Status:

The project is **99**% complete. Steel structure has been painted.

What's Next:

Tank will be connected to the system once operational systems are in place to control pressures until SCADA system is operational in mid 2011. Tank is on line. **Water levels are gradually being increased.** 

Tank art work price came in much more expensive than anticipated at about \$68,000 just for doing the numbers. City staff has recommended not doing the supplemental paint work due to project cost and overall budgetary implications. Staff is checking on pricing information from alterative vendors that do this work and looking into other sources of funding for this decorative paint work.

Project:

Supervisory Control and Data Acquisition (SCADA) (DB/AO)

Status:

SCADA contract has been awarded to Auburn Constructors and work has commenced. Work should be completed by summer 2011. Ecologic Engineering Inc. is the construction management firm and did an independent review of the design. **FCC license has been obtained.** 

The SCADA system and water-meter radio systems are totally separate operating systems. The water-meter radio system collects data via radio signals from the individual water-meters, sends it to a central location where the data is compiled, and then forwarded to our finance department for inclusion in customer's water bills. SCADA, on the other hand, is used to coordinate the functional workings of the City water system; including the storage tank and all 18 of our wells.

## SCADA:

- 1. Allows the wells to operate in a coordinated manner so as to keep the tank at a near full condition to improve water pressure throughout the day.
- 2. Continuously monitor nitrate levels in our pumped groundwater to assure that it meets regulatory water quality standards without fail.

- 3. Monitors wells for operational readiness and physical condition.
- 4. Allows for the most efficient wells to be operated most frequently reducing overall pumping costs.
- 5. Monitor security issues

What's New: Work began September 2010. System should be operational by June

2011.

Project: Replace Well 22 and Well 15 (CO/AO/DB)

**Status:** Over the years numerous attempts were made to solve the serious but

intermittent problem of the wells pumping sand which gets into the distribution system and household plumbing. New well sites have been selected and coordinated with Parks. The new site for well 22 is 100 feet north-north-west of existing well 22 and similar distance north of Well 15. Staff received a technical memo on each well's evaluation. Staff also received a work proposal from Brown and Caldwell. Both wells have been drilled. City staff met with representative of CDPH (California Department of Public Health) who have determined that the City may

stay with the upper limit of 1600 for electrical conductivity.

What's Next: Both wells are functional now and water quality testing has been

done to allowing them to go on line. Final CDPH clearance and

approval is being obtained.

**Project:** Backup Power for Wells (CO)

**Status:** Additional backup generating power was needed to 3 wells. Staff

received proposals and awarded contract to the lowest responsible bidder. Well 4's fixed base generator has been installed under the

Beamer water pipeline and Well 4 rehab work contract.

What's Next: This work is significantly completed. A portable generator currently sits

on the Well 20 site; the other portable generator will stay in the MSC yard in case of an outage at any other wells that were equipped with a storm switch (Well 13,15,18, and 21). Work is underway for Well 4; generator has been set in place and will be tested end of Aug 2010.

**Project:** Groundwater Monitoring Wells (DB/AO)

**Status:** The location of the monitoring wells is being determined through the

Groundwater Management Plan (GWMP). One well has been installed

and water sampling is periodically occurring.

What's Next: Funding approval is needed. Site selection is under way for future

sampling well locations. It is planned that this work will be done in 2011 or 2012 depending on the final approved Capital Improvement Plan that

is currently under development.

**Project:** Groundwater Management Plan (DB/AO)

Status: The draft of Groundwater Management Plan has been submitted

**and is out for public review.** It was coordinated with similar work being done by the Yolo County Flood Control and Water Conservation District.

Evaluation and writing of the GWMP is underway.

What's Next: This Groundwater Management Plan will be submitted to Council

for approval on January 18, 2011.

We are perusing the 5-year update to the Urban Water Management Plan. There have been changes in State mandates for conservation and several of those items will need to be reflected as new action items in the new Urban Water Management Plan that will be completed this Fiscal Year. We do not have a list of these action items because it is still not determined what needs to be included and how it should be best implemented. We believe that ultimately citywide metering will lead to a significant (15% +/-) water use reduction and this was considered in setting our current rate structure. It was important to consider the conservation use reduction to make accurate predictions of capital and water use operation costs and revenue projections for the water rates. Conservation is important to both minimize impact to the environment and to keep long-term operational and capital costs as low as possible.

Project: Water Focus Study (DB)

**Status:** Hydraulic modeling has been done. The sections of the report dealing

with the coordination of the use of wells and surface water supplies are being written. Likewise, the report has been amended to reflect the expected 15% water conservation that should occur with the City being

fully metered.

What's Next: Additional modeling is being done to determine best location of ground

level tanks to blend surface water throughout the city. Water system calibration work was done in September 2010 which will allow the

modeling to be more accurate.

Draft of study has been submitted to the City and City staff has

commented on this document. Focus Study will be finalized once we get the results from a separate evaluation done on how best to blend and move the surface water throughout the City. This study may affect tank sizing and location. Modeling is also being done to determine the size and location of water transmission lines and tanks for the Surface Water

Supply Project. This work is underway.

**Project:** Meter Implementation Phase 2 (DB/AO)

**Status:** City staff received grant funding to install meters on 10,000 houses in the

City. Council awarded contract to Teichert Construction, notice to

proceed was issued on September 17, 2009. A construction management firm has been selected to manage the project. The project construction has begun and work is expected to be completed in June 2012. Work is proceeding within budget.

Phase 1 metering involved about 5,000 water users and this work was recently completed. It included putting automated meter reading (AMR) equipment on existing meters of businesses as well as homes built post 1991. Phase 1 work is essentially completed. **Actual water** consumption based billing began for Phase 1 meter users in December 2010.

Phase 2 metering is for installing meters plus AMR on all the remaining 10,000 properties. In addition to installing water meters, many water service lines from water mains will need to be replaced due to their poor condition. Funding is provided by federal stimulus fund of \$14.8M (half low interest loan and half grant) plus \$2.3M in City Water Enterprise Funds. Staff successfully worked with the State to allow City share to be used last and not first which is normal and was previously required. Project is 10% complete; staff attended training session with CDPH on claim reporting. Staff hopes to both completed the work and keep most of the cost within the federal stimulus fund so as to minimize the utilization of the \$2.3M in City Water Enterprise Funds. Staff has completed the modification work that was needed on some of the older meter registers so more accurate data can be obtained to help homeowners with determining if they have leaks in their water plumbing system.

What's Next:

Staff to submit updated budget to CDPH. Staff will also submit quarterly report as indicated in the funding agreement to CDPH. Staff is continuing to work with the State to obtain grant/loan reimbursement funding checks for costs incurred for construction and staff time. .

**Project:** Well #1 Replacement (CO)

Status: The new Yolo County Courthouse project will displace the existing

> location of Well #1. Construction of a new well to replace existing Well 1 will need to be completed prior to construction of the new courthouse that is scheduled to begin December 2011. The new site for the new well location has been selected to be in the northeast area of Freeman Park in an area of minimal impact to the area normally

used by park visitors.

What's Next: West Yost and Associates is working on the pre-design of the well.

Funding of this project is still under negotiations between Re-

development and by the State who will partly fund well replacement. A proposal for well design has been submitted by West Yost and is under review. Design work was delayed by not having funding authorization to do the design work which has been worked out, at least for the well

drilling part. Design must proceed to meet the new courthouse schedule for their groundbreaking ceremony scheduled for December 2011.

Project: First New Ground Level Tank and Booster Pump Station (AO/DB)

**Status:** The City has a 3 million gallon deficit in water storage and about 6,000

gallon per minute deficit in water pumping capacity. This project will

significantly reduce these problems.

**What's Next:** Water modeling is underway to confirm the best location for the tank to

address hydraulic deficiencies and to optimize the distribution of the higher quality water that will result from the surface water supply project.

Project: East Street to Pioneer 36" Water Main (MC/CO)

**Status:** City is coordinating with four Spring Lake area developers to install a 36"

water main instead of constructing a 12 inch water main that was part their obligation to front their developments in order for the City to save

money and to meet the needs of the surface water project.

What's Next: Contract has been signed for Brown and Caldwell to perform design

services for pipeline.