



**FY 2016
BOWC Workshop
Capital Improvement Program (CIP)**

January 14, 2015

Today's Agenda

Welcome – N. Bateson

CIP Process Overview – N. Bateson / S. Ali

CIP/Project Overviews

Water – C. Porter

Sewer – C. Porter

Information Technology – D. Rainey

Financial Overview – N. Bateson / B. Foster

Questions



CIP Process

Presented by

Nicolette Bateson
and
Syed Ali



FY 2016 Preliminary CIP

CIP Development Process



FY 2016 CIP Development Process

- Annually the CIP is reviewed and updated to recommend capital improvements over a five year planning horizon.
- For the FY 2016 CIP, the plan presents projected expenditures for FYs 2016 through 2020.
- The CIP incorporates needs identified in the ongoing master plan study and operating experience.
- The CIP strikes a balance between identified system needs and rate affordability.



FY 2016 CIP Development Process (continued)

- New CIP projects presented/discussed with customers on October 7, 2014
- Preliminary CIP presented to the ORCAP committee on December 22, 2014
- Preliminary CIP sent to Water and Sewer customers on December 22, 2014 for review and comments
 - Customers review comments due January 8, 2015
- Preliminary CIP presentation to BOWC workshop on January 14, 2015
- BOWC considers CIP for approval March 2015



CIP Schedule - Tentative for FY 2016 CIP

| MILESTONE DATE | EVENT |
|-----------------------|---|
| June to December 2014 | Internal Development of Preliminary CIP |
| October 7, 2014 | Presented New CIP Projects to WATER and SEWER Customers |
| December 22, 2014 | Preliminary CIP presented to ORCAP Committee for Review |
| December 22, 2014 | Preliminary CIP sent to Customers for Review/Comment |
| January 8, 2015 | Review Comments Due from Customers |
| January 14, 2015 | BOWC Workshop Presentation |
| February, 2015 | Final CIP Presentation to ORCAP Committee for Approval |
| March, 2015 | Final CIP to BOWC for Approval |
| March, 2015 | Publish Approved CIP |



CIP Document Online for BOWC Workshop

The screenshot shows the website's navigation menu with options like Home, Customer Service, About DWSD, Announcements and Media, Contracts and Procurements, and City of Detroit Website. The main content area is titled 'DWSB BOARD OF WATER COMMISSIONERS' 2015 CALENDAR'. Below this is a table with columns for 'BOWC Meeting Dates', 'Agendas', 'Minutes', and 'Presentation / Reference Material'. The 'Presentation / Reference Material' column is circled in red, and an arrow points to the entry for the January 14, 2015 BOWC Workshop, which lists 'Sewer Highlights' and 'Water Highlights' as reference material.

| BOWC Meeting Dates | Agendas | Minutes | Presentation / Reference Material |
|---|--------------|------------------|--|
| January 12, 2015 Finance Committee Meeting 7:30pm, Board Room, 5th Floor Water Board Building, 735 Randolph, Detroit | Final Agenda | Approved Minutes | |
| January 12, 2015 Operation, Regulatory, Compliance and Procurement ORCAP Committee Meeting 12:30pm, Board Room, 5th Floor Water Board Building, 735 Randolph, Detroit | Final Agenda | Approved Minutes | |
| January 14, 2015 Workshop 1:00pm | | | Sewer FY 2016 Preliminary CIP Water FY 2016 Preliminary CIP Sewer Highlights Water Highlights |
| January 28, 2015 BOWC Regular Meeting 2:00pm | Final Agenda | Approved Minutes | Public Hearing on Proposed Budget & CIP |



CIP Document - Water

FY 2016 Preliminary Water CIP

Water Supply System Capital Improvement Program CIP Executive Summary (000)

PRELIMINARY
12-22-2014

* For information purposes only. Not counted in Total.

| | Update* | | # of Projects | | | | | 5 Year | | |
|--------------------|-----------|------------|------------------|------------|------------|------------|-----------|------------|-----------|------------|
| | 2014-15 | 2015-16 | | 2016-17 | 2017-18 | 2018-19 | 2019-20 | Sub Total | Remaining | Total |
| Ongoing | | | | | | | | | | |
| Active | 54,271 | 59,013 | 14 | 34,522 | 5,754 | 300 | 0 | 99,589 | 0 | 99,589 |
| Under Procurement | 9,200 | 20,950 | 7 | 29,420 | 23,950 | 8,791 | 0 | 79,011 | 0 | 79,011 |
| Pending Close-out | 8,373 | 45 | 9 | 0 | 0 | 0 | 0 | 45 | 0 | 45 |
| Ongoing Total | 67,844 | 79,908 | 30 | 59,942 | 29,704 | 9,091 | 0 | 178,645 | 0 | 178,645 |
| New Projects Total | 12,500 | 52,810 | 26 | 115,025 | 123,608 | 108,515 | 57,600 | 457,558 | 16,316 | 473,874 |
| Total CIP | \$ 80,344 | \$ 132,718 | 56 | \$ 174,967 | \$ 153,312 | \$ 117,606 | \$ 57,600 | \$ 636,203 | \$ 16,316 | \$ 652,510 |



Notations: 2010-11 thru 2013-14 totals are projected and actual (unaudited) expenditures
2014-15 thru 2019-20 are projected expenditures

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Preliminary Water CIP – Projection Analysis

| | Water Supply System | | | | | | | Not counted in Sub Total or Total. For information only. | | |
|---|---------------------|----------|----------|---------|---------|---------|---------|--|-----------|---------|
| | (000) | | | | | | | | | |
| | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 5 Year Sub Total | Remaining | Total |
| Per FY15 Water CIP | 62,198 | 125,213 | 153,273 | 107,099 | 71,257 | 47,589 | | 504,431 | 7,561 | 511,992 |
| Per FY16 - Preliminary Water CIP | | 80,344 | 132,718 | 174,967 | 153,312 | 117,606 | 57,600 | 636,203 | 16,316 | 652,519 |
| Comparison: FY 16 Preliminary CIP vs. FY 15 CIP | | (44,869) | (20,555) | 67,868 | 82,055 | 70,017 | 57,600 | 131,772 | 8,755 | 140,527 |
| Comparison %: FY 16 Preliminary CIP vs. FY 15 CIP | | -35.83% | -13.41% | 63.37% | 115.15% | | | 26.12% | 115.79% | 27.45% |



CIP Document - Sewer

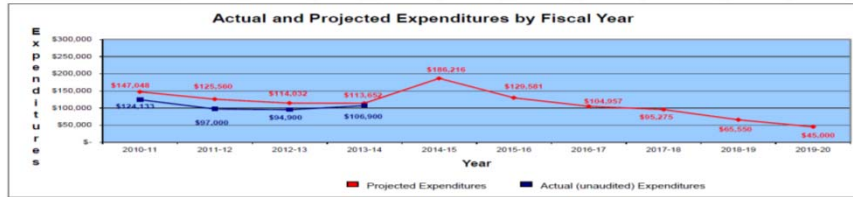
FY 2016 Preliminary Sewer CIP

Sewage Disposal System Capital Improvement Program CIP Executive Summary (000)

PRELIMINARY
12-22-2014

* For information purposes only. Not counted in Total.

| Ongoing | Update* | # of | Projects | | | | | 5 Year | | Total |
|--------------------|----------------|----------------|-----------|----------------|---------------|---------------|---------------|----------------|---------------|----------------|
| | 2014-15 | | 2014-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | Sub Total | Remaining | |
| Active | 130,872 | 64,678 | 16 | 13,357 | 4,325 | 0 | 0 | 62,350 | 5,661 | 88,021 |
| Under Procurement | 2,050 | 21,750 | 3 | 27,700 | 21,800 | 1,100 | 0 | 72,350 | 0 | 72,350 |
| Pending Close-out | 30,589 | 153 | 18 | 0 | 0 | 0 | 0 | 153 | 0 | 153 |
| Ongoing Total | 163,316 | 86,581 | 37 | 41,057 | 26,125 | 1,100 | 0 | 154,853 | 5,661 | 160,524 |
| New Projects Total | 22,900 | 43,000 | 13 | 63,900 | 69,150 | 64,450 | 45,000 | 285,500 | 22,782 | 308,282 |
| Total CIP | 186,216 | 129,581 | 50 | 104,957 | 95,275 | 65,550 | 45,000 | 440,353 | 28,443 | 468,896 |



Notations:
2010-11 thru 2013-14 totals are projected and actual (unaudited) expenditures
2014-15 thru 2019-20 are projected expenditures

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Preliminary Sewer CIP – Projection Analysis

| | Sewage Disposal System | | | | | | | Not counted in Sub Total or Total. For information only. | | |
|---|------------------------|---------|---------|---------|---------|---------|---------|--|-----------|-----------|
| | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 5 Year Sub Total | Remaining | Total |
| Per FY 15 Amended Sewer CIP | 113,652 | 193,684 | 113,813 | 96,503 | 76,375 | 72,700 | | 553,075 | 56,449 | 609,524 |
| Per FY 16 - Preliminary Sewer CIP | | 186,216 | 129,581 | 104,957 | 95,275 | 65,550 | 45,000 | 440,363 | 28,443 | 468,806 |
| Comparison: FY 16 Preliminary CIP vs. FY 15 CIP | | (7,468) | 15,768 | 8,454 | 18,900 | (7,150) | | (112,712) | (28,006) | (140,718) |
| Comparison %: FY 16 Preliminary CIP vs. FY 15 CIP | | -3.86% | 13.85% | 8.76% | 24.75% | -9.83% | | -20.38% | -49.61% | -23.09% |



The CIP reports categorize projects based on their status

- **ACTIVE** Projects:
 - ✓ Work in progress – the CIP contains projected expenditures necessary to complete these ongoing projects
- **UNDER PROCUREMENT** Projects:
 - ✓ Project is in the procurement process and is about to begin. (A DRMS number (accounting code) has been assigned, but notice to proceed has not yet been issued)
- **NEW** Projects:
 - ✓ Project proposal has been approved but the procurement process has not yet been initiated
- **Pending Closeout** Projects: **Project is complete and about to close.**



The CIP report contains information designed to identify project purpose and cost allocation status

Criteria in Report - Water

- ✓ **Primary Project Purpose**
 - Regulatory Compliance
 - System Reliability
 - Efficiency Measures
 - New Service Areas
- ✓ **Cost Allocation Status**
 - D - Detroit Only
 - CTA - Common to All



The CIP report contains criteria designed to identify project purpose and allocation status

Criteria in Report – Sewer

✓ **Primary Project Purpose**

- Regulatory Compliance
- System Reliability
- Efficiency Measures
- New Service Areas
- **Cost Allocation Status**
 - D - Detroit Only
 - S - Suburban Only
 - OMI - Oakland Macomb Interceptor District Only
 - 83/17 - New Wet Weather Facilities
 - CTA - Common to all



FY 2016 BOWC Workshop Capital Improvement Program (CIP) Water Supply System

January 14, 2015

CIP Operational Process

Presented by

Cheryl Porter



The project proposal process within the Operations

- Ultimate goal is Asset Management (AM)
- Transformational Process until AM:
 - Proposals initiated from O&M evaluations or field conditions
 - Engineering and O&M meet to determine CIP or maintenance solution
 - CIP proposals are generated for capital solutions
- Water proposed 36 projects 33 accepted (\$163.1)
- Wastewater proposed 5 new projects (\$81.6)
- Why are there more Water projects?
 - This is a different approach – smaller projects = less complexity, easier to manage and lower costs (due to reduced subcontractor markups)
 - Meet regulatory compliance
 - Maintain treatment and pumping reliability
 - Water Master Plan Process sanctioned some prior identified projects



The project proposal process within the Operations

- **Criticality Meeting with Operations and COO**
 - Critical – needs to happen to avoid non-compliance or system failure
 - Medium – should happen within the next 5 years of CIP
 - Low – needs to happen but not necessarily within the next 5 years
- **Added a review by Water Master Planning Project Manager**
 - Reviewed proposed projects for alignment with strategic direction
 - Adjusted Water Treatment Plant Allowance by \$60 million
 - Deleted 16 projects
- **Reviewed by TAC-AWG and Wastewater Steering Committee in October**
- **Energy Management focus**



New Proposals - Critical

| CIP No. | Title | Category | Type | CDM |
|---------|--|----------|-------|-------|
| | Water Main Replacement Allowance | 3 | D/C | Agree |
| | Water Transmission Allowance | 3 | D/C | Agree |
| 1264 | Water Production Flow Metering Improvements at SPW | 3 | C | Agree |
| 1267 | Replacement of Rapid Mix Units at SPW 1958 Process Train | 2 | C | Agree |
| 1269 | 1930 Sedimentation Basin Sluice Gates, Guides & Hoists Improvements at SPW | 2 | S/D/C | Agree |
| 1270 | Isolation Gate Valves for Lines Pumps for West Service Center Pumping Station | 3 | D/C | Agree |
| 1288 | Evaluation alternatives and recommend corrective actions to improve power factors (PF) at various Booster Pumping Stations | 3 | S | Agree |
| 1293 | Pressure and Control Improvements at the Electric, Ford, Michigan, and West Chicago Booster Pumping Stations | 3 | D/C | Agree |
| 1295 | Replacement of Division Valves at West Service Center | 3 | S | Agree |



New Proposals – Critical (continued)

| CIP No. | Title | Category | Type | CDM |
|---------|---|----------|------|-------|
| 1271 | Hydraulic Surge Control for North Service Center Pumping Station | 3 | D/C | Agree |
| 1273 | Low Lift Pumping Plant Caisson Rehabilitation at NE | 3 | C | Agree |
| 1297 | Residual Handling Facility's Decant Flow Modifications at SW | 3 | D/C | Agree |
| 1275 | Water Production Flow Metering Improvements at NE | 3 | C | Agree |
| 1276 | Water Production Flow Metering Improvements at SW | 3 | C | Agree |
| 1279 | Roofing Systems Replacement at Water Plants and Booster Pump Stations | 3 | C | Agree |
| 1280 | Miscellaneous Mechanical Improvements at LH | 3 | D/C | Agree |
| 1300 | Replacement of Filter Instrumentation and Raw Water Flow Metering Investigation at LH | 3 | D/C | Agree |
| 448 | Sewer Replacement Allowance | 3 | D | |



New Proposals - Medium

| CIP No. | Title | Category | Type | CDM |
|---------|--|----------|-------|-------|
| 1265 | Miscellaneous Concrete Improvements at SPW | 3 | C | Agree |
| 1266 | Administration Building Improvements at SPW | 3 | S/D/C | Agree |
| 1292 | Miscellaneous Improvements to Raw Water Tunnels, Shafts and Related Structures | 3 | D/C | Agree |
| 1296 | Needs Assessment Study for Eleven Booster Pumping Stations | 3 | S | Agree |
| 1301 | Comprehensive Condition Assessment at WWP | 3 | S | Agree |
| 1272 | Yard Piping Replacement at NE | 3 | D/C | Agree |
| 1274 | Miscellaneous Concrete and Road Improvements at WWP | 3 | C | Agree |
| 1277 | High Lift Pump Discharge Valve Actuators Replacement at SW | 3 | D/C | Agree |
| 1278 | Water Production Flow Metering Improvements at LH | 3 | D/C | Agree |



New Proposals – Medium (continued)

| CIP No. | Title | Category | Type | CDM |
|---------|--|----------|-------|-------|
| 1298 | Electrical Tunnel Rehabilitation at LH | 3 | C | Agree |
| 1299 | Miscellaneous Concrete Improvements at LH | 3 | C | Agree |
| 1291 | As-Needed Construction Materials, Environmental Media and Special Testing Services, Construction Inspection and Other Technical Services | 3 | S | Agree |
| 1285 | Relocation of IWC and Analytical Lab | 3 | C | |
| 1286 | Oakwood District Relief Sewer Modification | 3 | S/D/C | |
| 1287 | Pump Station No. 2 Improvements Phase II at WWTP | 2 | S/D/C | |



New Proposals – Low

| CIP No. | Title | Category | Type | CDM |
|---------|--|----------|-------|-------|
| 1268 | Powdered Activated Carbon System Improvements at SPW | 3 | S/D/C | Agree |
| 1294 | Freeze Pump Installation at Imlay Pumping Station | 3 | D/C | Agree |
| 1289 | Evaluation of Alternatives for Flocculation Improvements at LH | 2 | S | Agree |
| 1283 | Replacement of Butterfly Valves and Sluice Gates for Rapid Mix Chamber at SW | 2 | S/D/C | Agree |
| 1284 | Complex I Incinerators Demolition and Re-Usability at WWTP | 3 | S/D/C | |



New Proposals – Rejected / Under Review

| CIP No. | Title | Category | Type | CDM |
|---------|--|----------|-------|-------|
| 1290 | SW Laboratory Cabinet and Fume Hood Replacements | | D/C | Agree |
| 1281 | Replacement of VFD for Low Lift Pump Motor LL-1, 13800-Volt Switchgear and Improvements to High Lift Pump Motor Exciters at LH | | D/C | Agree |
| 1282 | Reconstruction of the Raw Sludge Clarifier Tanks and Raw Sludge Pumping System Improvements at LH | | S/D/C | Agree |



WATER – Project Overview (1)

Update on SPW Filtration Project



DWSD Contract No. SP-563 Springwells Water Treatment Plant

Contract No. SP-563 Overview:

- Contractor: Walsh Construction Company
- Design Engineer: CDM Smith
- Contract Amount: \$75,899,000
- Contract Duration:
 - Start: July 8, 2013
 - Substantial Completion September 15, 2017
 - Final Completion: March 14, 2018



City of Detroit Water & Sewerage Department

DWSD Contract No. SP-563 Springwells Water Treatment Plant

Project Need:

- All facilities being rehabilitated or replaced are original to the 1930 or 1958 construction
- Many of these facilities are either not operational, costly to maintain, and are energy inefficient



City of Detroit Water & Sewerage Department

DWSD Contract No. SP-563 Springwells Water Treatment Plant

DWSD Contract SP-563 Progress Summary

| | |
|--|--------------|
| Contract Amount | \$75,899,000 |
| Contract Consumed to Date | \$30,112,560 |
| % Contract Amount Consumed YTD | 40% |
| Contract Time Elapsed (to substantial) | 33% |
| Contract Time Elapsed (to final) | 29% |
| Total Allowance | \$8,915,000 |
| Allowance Consumed to Date | \$804,703 |
| % of Allowance Consumed YTD | 9% |



Springwells – 1930 Filter Operating Gallery Improvements

Before



1930 Filter Gallery Old Partitions

After



New Partitions and Ductwork in
1930 Filter Building



Springwells – Before SP-563 Work



Infiltrated Media in Failed 1930 Filter



Springwells – Before SP-563 Work

Before



Existing 1958 Filter Control Console



Existing 1958 Filter Pipe Gallery



Springwells During Construction Demolition of Failed 1930 Filter Underdrains



Springwells During Construction 1930 Filter Underdrain Re-Construction

After



Installing New Underdrain System



Prepared Filter Floor After Demolition



Springwells During Construction 1930 Filter Underdrain Re-Construction



Hydraulic Distribution Testing on New Underdrain System



Springwells SP-563 – 1958 Filter Improvements

Before



Demolition of Wash Water Troughs

After



Gullet Wall Extensions



Springwells SP-563 New Bldg. Mechanical Equipment for 1930 Filter Bldg.



WATER – Project Overview (2)

Water Production Flow Metering Capital Improvement Projects



Water Production Flow Metering Improvements – Project Need

- Current water production flows measured at plants are believed to be unacceptably inaccurate
- The disparity between billing meters and plant production meters are a component of apparent water loss in the system
- Elimination of the apparent water loss component stemming from plant production will assist in quantifying the actual water losses in the system
- Accurate water production flow measurement also provides operational benefits



Project Goals

- Provide water production flow measurement that is accurate to within +/- 1 to 2% of actual flows, and that is reliable and repeatable
- Maximize the use of existing plant facilities to accurately measure water production flows
- Implement improvements that carry the lowest capital and long-term O&M costs
- Provide a flow metering system that is simple to understand, easy to operate and maintain, and that affords DWSD autonomy over the meters maintenance and calibration



Typical Water Production Metering Improvements

- Rehabilitate existing venturi flow meters
- Replace pressure impulse piping
- Restore the exterior of the venturi castings (cleaning and painting)
- Build new heated above-ground structures to locate new differential pressure transmitters
- Improve vault environment with employee safety and equipment protection in mind



Examples of Venturi Meter Rehabilitation

30" Classic Venturi – Before



30" Classic Venturi – After



Existing Venturi Meter No. 5 at Southwest



Existing Venturi Meter No. 5 at Springwells



Project Timeline

| Phase | Start | Finish | Duration |
|--------------|--------------|---------------|-----------|
| Design | July 2015 | December 2016 | 6 months |
| Bid | January 2016 | March 2016 | 3 months |
| Construction | April 2016 | May 2018 | 24 months |



Capital Cost Estimate

| Phase | Estimated Cost | Alternative Cost |
|-----------------------------|--------------------|---------------------|
| Construction ⁽¹⁾ | | |
| Springwells | \$3,500,000 | \$5,700,000 |
| Southwest | \$2,000,000 | \$4,300,000 |
| Northeast | \$2,700,000 | \$4,300,000 |
| TOTAL | \$8,200,000 | \$14,300,000 |

Notes:

1. Construction cost estimates include DWSD's in-house administrative costs

* Design cost





**FY 2016
BOWC Workshop
Capital Improvement Program (CIP)
Sewage Disposal System**

January 14, 2015

CIP - Sewer

Presented by

Cheryl Porter



SEWER – Project Overview (1)

Update on Biosolids Dryer Facility



City of Detroit Water & Sewerage Department

PC-792 Biosolids Dryer Facility

October 2014



City of Detroit Water & Sewerage Department

PC-792 Biosolids Dryer Facility



PC-792 Biosolids Dryer Facility

October 2014

- Largest Biosolids Dryer Facility in North America
- \$143M Design-Build Contract with New England Fertilizer Company (NEFCO) also includes a 20-year operating agreement
- SRF funding approved for the project (September 2014)



PC-792 Biosolids Dryer Facility

January 2015



PC-792 Biosolids Dryer Facility

January 2015

- **Construction is underway and substantial completion is expected by September 2015 – six months ahead of March 2016 date required by contract**
- **Regular operational coordination meetings with WWTP beginning in 2015**



SEWER – Project Overview (2)

Pump Station No. 2 Rack and Grit Project Phase 2



City of Detroit Water & Sewerage Department

New Projects

Pump Station No. 2 Improvements



City of Detroit Water & Sewerage Department

Pump Station No. 2 Rack and Grit



New Projects

Pump Station No. 2 Improvements

- Work includes study, design and construction to rehabilitate five pumps (#9, #12, #13, #15, and #16)
- Also includes associated equipment, replacement of HVAC system, I&C improvements, structural, architectural and electrical improvements



New Projects

Pump Station No. 2 Improvements

- Study/Design to begin FY 2016/17
- Construction from FY 2018/19 to FY 2019/20
- Project Duration 42 Months
- Project Estimate \$11 Million



City of Detroit Water & Sewerage Department

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FY 2016 BOWC Workshop Information Technology CIP

January 14, 2015

INFORMATION TECHNOLOGY

Presented by
Dan Rainey



IT Capital Projects: Ongoing

| No. | Contract # & Description | Cost | Start | End |
|-----|--|-------------|------------|------------|
| 1. | DWS-881 Data Center Reliability/Availability Improvements. | \$5,724,850 | Feb 2012 | Feb 2015 |
| 2. | DWS-882 SCADA Radio Network Upgrade | \$7,999,490 | March 2013 | March 2016 |
| 3. | PC-773C & PC-773D Consolidated Process Control Systems Upgrades for Water and Wastewater | \$7,602,720 | May 2013 | May 2016 |

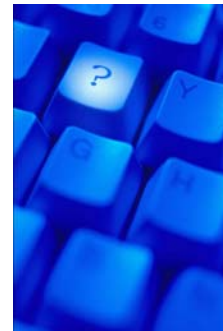


IT Capital Projects: Active and Planned Within Allowance

| Description | FY2014-15 | FY2015-16 | FY2016-17 | FY2017-18 | FY2018-19 | Total |
|---|------------------|------------------|------------------|------------------|----------------|-------------------|
| IT Master Planning, Governance and Program Management Implementation | 200,000 | 200,000 | 200,000 | 200,000 | 200,000 | 1,000,000 |
| Point to Point wireless backhaul between WWTP, WBB, and CSF | | 100,000 | | | | 100,000 |
| Enterprise Storage Short Term and Long Term | 800,000 | | | 1,800,000 | | 2,600,000 |
| Enterprise Content Management | 250,000 | 250,000 | 300,000 | 250,000 | 170,000 | 1,220,000 |
| Enterprise Backup Solution | | 1,100,000 | | | | 1,100,000 |
| Human Resources, Payroll and Timekeeping System (including time clock) | 1,200,000 | 600,000 | | | | 1,800,000 |
| Financial System (AP, AR, Budget, Fixed Asset, Reporting, Treasury) | | 3,200,000 | | | | 3,200,000 |
| Customer Contact Call Center/IVR | | 300,000 | 300,000 | | | 600,000 |
| Enterprise Telecommunications System (VoIP) | | | | 1,200,000 | | 1,200,000 |
| Enterprise Wireless (assumes complete coverage of WWTP) | | | 1,000,000 | 1,000,000 | | 2,000,000 |
| Server Replacements / Upgrades | 500,000 | 150,000 | 50,000 | 50,000 | 50,000 | 800,000 |
| Enterprise Printer / Scanner Upgrades | 100,000 | 100,000 | 90,000 | 90,000 | 50,000 | 430,000 |
| Disaster Recovery | 200,000 | 400,000 | 200,000 | | | 800,000 |
| WAM 2.0 (Asset Management Business Process Optimization Implementation) | | 1,150,000 | | | | 1,150,000 |
| | <u>3,250,000</u> | <u>7,550,000</u> | <u>2,140,000</u> | <u>4,590,000</u> | <u>470,000</u> | <u>18,000,000</u> |



Questions?



Thank you!

