



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Heating & Cooling Heating & Cooling



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Heating & Cooling Facilities SCADA Upgrade

Phase: Design

Programmed Amount: \$165,000

Core Business: Heating & Cooling

Category: Heating & Cooling

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective:

Description and Scope:

Scope of work shall include the design, delivery, field installation and commissioning of all hardware, software, documentation and training for the new secured integrated SCADA system.

Enhancement will ensure that SAWS conforms to stringent state and federal regulatory requirements that affect our system operations and infrastructure security. Improved security, monitoring and control strategies will convert to meet those regulations. Software, communications, and hardware must be upgraded to help meet the challenges of providing high quality services and sustainable infrastructure security threats.

Remarks:

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Unsustainable Equipment

Failure Impact:

Customer Disatisfaction

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

5

Likelihood of Occurrence

2

Risk Mitigation

2

Risk Exposure

20

V. FUNDING INFORMATION

LandYear:

0
\$0

DesignYear:

2011
\$150,000

Construction Year

2013
\$1,500,000

Amounts shown are estimated costs without SAWS overhead.



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Heating and Cooling System Infrastructure 2011

Phase: Construction

Programmed Amount: \$110,000

Core Business: Heating & Cooling

Category: Heating & Cooling

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Heating & Cooling Infrastructure Repair and Rehabilitation

Description and Scope:

Annual requirement for emergency repair and/or replacement of Heating & Cooling related capital assets; including distribution mains and chilled water and steam equipment and facilities. Projects vary in size and location. Unspecified scope.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Equipment Failure

Failure Impact:

Service Interruption

Failure Root Cause:

Failed System Component

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2010

\$100,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Wastewater Collection Growth



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: C-3 SA Airport: McCullough and Wetmore to Basse

Phase: Design

Programmed Amount: \$1,271,054

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District:
 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Central Sewershed

Description and Scope:

The "C_3_SA Airport _ McCollough and Wetmore to Basse" project consists of approximately 36,300 linear feet of 12-inch, 15-inch, 18-inch, 21-inch, 24-inch, 27-inch, 30-inch, 36-inch, 42-inch, and 54-inch wastewater mains.

Remarks:

This project includes project C-09 (Wolfe Rd) & C-07B (north of Olmos Creek) from the previous Master Planning Study which runs along Wolfe Rd from Plymouth Ave to US Hwy 281.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

2011
\$250,000

DesignYear:

2011
\$1,169,000

Construction Year

2013
\$9,190,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: C-5: Culebra and Castroville to Laredo

Phase: Design

Programmed Amount: \$905,721

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Central Sewershed

Description and Scope:

The "C_5_Culebra and Castroville to Laredo" project consists of approximately 26,000 linear feet of 12-inch, 15-inch, 21-inch, 24-inch, 27-inch, 30-inch, 33-inch, and 36-inch wastewater mains. The project will construct 21-inch and 36-inch gravity mains in the Central Basin along South Laredo Street between South San Jacinto Street and South Trinity Street. The project also includes 3 additional 24-inch barrels at the existing siphon south of the intersection of Calaveras and Potosi Street, a 36-inch gravity main parallel to Potosi Street and Nueva Leon Street, a 33-inch gravity main north of Guadalupe Street turns northwest at El Paso Street, and three 21-inch mains parallel the existing 18-inch and 20-inch mains south of the intersection of Southwest 19th Street and Saunders.

Remarks:

(formerly C-23 along 27th St. from Arbor Place to W. Poplar St.)

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|-------------------------------|---|
| Failure Mode: Inadequate Capacity | Failure Impact: SSO | Failure Root Cause: Age/Deterioration |
|---|-------------------------------|---|

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------------|---------------------------------------|------------------------------|------------------------------|
| Impact Severity 10 | Likelihood of Occurrence 10 | Risk Mitigation 10 | Risk Exposure 1000 |
|------------------------------|---------------------------------------|------------------------------|------------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. | 2011 | 2013 |
| \$250,000 | \$833,000 | \$5,830,000 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: E-4 Bulverde: Evans to Redland

Phase: Design

Programmed Amount: \$680,650

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Eastern Sewershed

Description and Scope:

The "E_4_Bulverde_Evans to Redland" project consists of approximately 18,000 linear feet of 15-inch, 18-inch, 21-inch, and 24-inch wastewater mains. The project will construct a 24-inch gravity main along Bulverde Road between Redland Road and Loop 1604 in the Eastern Basin. The 24-inch gravity main continues north parallel to Bulverde Road and becomes a 21-inch and 18-inch. The 18-inch main ends at Roseheart. The project also includes a 24-inch, 18-inch, and 15-inch gravity main parallel to Bulverde Road south of East Evans Road.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|-------------------------------|---|
| Failure Mode: Inadequate Capacity | Failure Impact: SSO | Failure Root Cause: Age/Deterioration |
|---|-------------------------------|---|

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------------|---------------------------------------|------------------------------|------------------------------|
| Impact Severity 10 | Likelihood of Occurrence 10 | Risk Mitigation 10 | Risk Exposure 1000 |
|------------------------------|---------------------------------------|------------------------------|------------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. | 2011 | 2013 |
| \$250,000 | \$626,000 | \$3,760,000 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: FW-27 Medio Creek: Hwy 90 to Medio WRC

Phase: Construction

Programmed Amount: \$1,087,300

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Far West Sewershed.

Description and Scope:

This project will construct approximately 2,300 linear feet of 36-inch sewer main and approximately 1,700 linear feet of 21-inch sewer main. This project will extend from Highway 90 and Hunt Lane to Medio Creek WRC and will serve development in the Far West Sewershed.

(Formerly known as Far West Sewer Relief Main FW-01)

Remarks:

This project is Impact fee eligible. This Project will be receiving flows from the Far West Inter Basin Transfer System. The increased flows from the Far West Inter Basin Transfer System will cause overflows in the existing undersized sewer main if this Project to increase capacity is not completed.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|-------------------------------|--|
| Failure Mode: Inadequate Facilities | Failure Impact: SSO | Failure Root Cause: Undersized Lines |
|---|-------------------------------|--|

IV. RISK ASSESSMENT RATING

| | | | |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|
| Impact Severity 9 | Likelihood of Occurrence 8 | Risk Mitigation 8 | Risk Exposure 576 |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. 0 | 2009 | 2011 |
| \$0 | \$100,000 | \$1,000,000 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Install sewer main from LS 224 to MRSO

Phase: Design

Programmed Amount: \$47,841

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure for lift station eliminations

Description and Scope:

This Project will construct approximately 7,664 linear feet of 8-inch gravity sewer main from LS#224 (Love's Country) to Medina Sewer Outfall. The lift station must be eliminated and the line put into service to capitalize this project.

Remarks:

This project will reduce operating and maintenance costs for the three lift stations.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Unsustainable Equipment | Failure Impact: Increased Maintenance | Failure Root Cause: Age/Deterioration |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|
| Impact Severity 6 | Likelihood of Occurrence 5 | Risk Mitigation 7 | Risk Exposure 210 |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. 0 | 2011 | 2013 |
| \$0 | \$44,000 | \$440,000 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Medina River Sewer Outfall Segment 2

Phase: Construction

Programmed Amount: \$15,210,265

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District:
 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the South and Lower Far West

Description and Scope:

This Project will construct approximately 26 miles of sewer outfall main ranging in size from 24-inch to 96-inch diameter. This project will extend from Dos Rios WRC along Medina River to a point south of Highway 90 and west of Loop 1604 on the west side of Bexar County. The 2011 funding is for Segments 2 and 3. The economic impact of this project can be measured in making possible the future elimination of numerous lift stations in the Far West and South sewersheds, eliminating the need for future expansions to Leon Creek and Medio Creek WRCs, and preventing proliferation of package treatment plants in the South sewershed. The remaining segments are planned for construction in 2012.

Remarks:

Construction schedule:
 2010 - Segments 1 and 6
 2011 - Segments 2 and 3
 2012 - Segments 4 and 5

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|--|--|
| Failure Mode: Inadequate Capacity | Failure Impact: Line Surcharge | Failure Root Cause: Undersized Lines |
|---|--|--|

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------------|---------------------------------------|------------------------------|------------------------------|
| Impact Severity 10 | Likelihood of Occurrence 10 | Risk Mitigation 10 | Risk Exposure 1000 |
|------------------------------|---------------------------------------|------------------------------|------------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. | 2009 | 2011 |
| \$10,000,000 | \$0 | \$13,989,023 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Medina River Sewer Outfall Segment 3

Phase: Construction

Programmed Amount: \$18,986,981

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District:
 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the South and Lower Far West

Description and Scope:

This Project will construct approximately 26 miles of sewer outfall main ranging in size from 24-inch to 96-inch diameter. This project will extend from Dos Rios WRC along Medina River to a point south of Highway 90 and west of Loop 1604 on the west side of Bexar County. The 2011 funding is for Segments 2 and 3. The economic impact of this project can be measured in making possible the future elimination of numerous lift stations in the Far West and South sewersheds, eliminating the need for future expansions to Leon Creek and Medio Creek WRCs, and preventing proliferation of package treatment plants in the South sewershed. The remaining segments are planned for construction in 2012.

Remarks:

Construction schedule:
 2010 - Segments 1 and 6
 2011 - Segments 2 and 3
 2012 - Segments 4 and 5

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|--|--|
| Failure Mode: Inadequate Capacity | Failure Impact: Line Surcharge | Failure Root Cause: Undersized Lines |
|---|--|--|

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------------|---------------------------------------|------------------------------|------------------------------|
| Impact Severity 10 | Likelihood of Occurrence 10 | Risk Mitigation 10 | Risk Exposure 1000 |
|------------------------------|---------------------------------------|------------------------------|------------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. | 2009 | 2011 |
| \$10,000,000 | \$0 | \$17,462,504 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Sewer Main Oversizing 2011

Phase: Construction

Programmed Amount: \$326,190

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Oversize sewage collection system for future growth.

Description and Scope:

Pay for SAWS proportionate share of the cost of mains which are necessary to serve anticipated growth but are larger than the size main required by a developer customer or single customer. This annual requirement provides funds to oversize various sewer main installations throughout the service area. Unspecified scope.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

Line Surcharge

Failure Root Cause:

Undersized Lines

IV. RISK ASSESSMENT RATING

Impact Severity

5

Likelihood of Occurrence

8

Risk Mitigation

10

Risk Exposure

400

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$300,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Verano Sewer Mains and Lift Stations

Phase: Construction

Programmed Amount: \$1,260,979

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Sewer service for Verano and Texas A&M-San Antonio

Description and Scope:

Wastewater service, including sewer mains and liftstations, to the 2,523.47-acre tract that will be developed for residential, commercial and the future Texas A&M – San Antonio campus use.

Remarks:

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Corporate Mandate

Failure Impact:

Customer Disatisfaction

Failure Root Cause:

Corporate Mandate

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

0
\$0

DesignYear:

0
\$0

Construction Year

2011
\$1,159,734



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: W-1 Leon Creek: Hwy 151 to Hwy 90

Phase: Design

Programmed Amount: \$1,211,252

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Western Sewershed

Description and Scope:

This project will construct approximately 21,000 linear feet of 60-inch gravity main in the Western Sewershed along Leon Creek between State Highway 151 and Highway 90.

Remarks:

(formerly W-01A & W-01B Western Relief Project)

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

0
\$0

DesignYear:

2011
\$1,114,000

Construction Year

2013
\$11,140,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: W-2 Huebner Creek: Eckhert to Shadow Mist

Phase: Design

Programmed Amount: \$357,722

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District:
 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Western Sewershed

Description and Scope:

The "W_2_Huebner Creek_Eckhert to Bandera" project consists of approximately 21,000 linear feet of 10-inch, 18-inch, 24-inch, and 27-inch wastewater mains. This project will construct 24-inch and 18-inch gravity main in the West Basin along Huebner Creek crossing Bandera Road west of Seneca Drive. The project also includes a 27-inch gravity main parallel to Poss Road from Bandera Road to north of Apple Green Drive and a short section of 10-inch gravity main south of Eckhert Road and east of Huebner.

Remarks:

(formerly W-06)

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

SSO

Failure Root Cause:

Undersized Equipment

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

4

Risk Mitigation

6

Risk Exposure

216

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

0
\$0

DesignYear:

2011
\$329,000

Construction Year

2013
\$3,290,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: W-31 IH-10: Boerne Stage to Old Fredericksburg

Phase: Acquisition

Programmed Amount: \$761,110

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District:
 1 **2** **3** **4** **5** **6** **7** **8** **9** **10**

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Western Sewershed

Description and Scope:

The “W_31_IH-10_Boerne Stage to Old Fredericksburg” project consists of a total of approximately 27,000 linear feet of 12-inch, 15-inch, 18-inch, 21-inch, 27-inch, and 30-inch wastewater mains. Inflow and Infiltration contributes to the need to complete this project. The Project will include the elimination of LS 169 (Falcon Center) & LS 232 (Woodland Hills).

Remarks:

formerly known as the Western Extension_B Project

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

SSO

Failure Root Cause:

Undersized Equipment

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

9

Risk Exposure

900

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

2011
\$700,000

DesignYear:

2009
\$1,900,000

Construction Year

2013
\$7,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: W-6 Leon Creek: Hwy 90 to New Laredo Hwy

Phase: Acquisition

Programmed Amount: \$3,805,550

Core Business: Wastewater

Category: Collection Growth

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Western Sewershed

Description and Scope:

The "W_6_Hwy 90 to New Laredo Hwy" project consists of approximately 31,000 linear feet of 8-inch, 10-inch, 15-inch, 48-inch, 54-inch, and 60-inch wastewater mains. The project will construct a 66-inch, 54-inch, and 48-inch gravity mains along Leon Creek between New Laredo Highway and Highway 90. This project also includes a 15-inch, 10-inch, and 8-inch main west of Leon Creek along Hall Street.

(formerly Western Relief Main, Hwy 90 to Loop 410 Lower to Upper Segments)

Remarks:

Construction in 3 phases 2012-2014

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

Line Surcharge

Failure Root Cause:

Undersized Lines

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

2011
\$3,500,000

DesignYear:

2010
\$2,000,000

Construction Year

2012
\$28,260,495



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Wastewater Collection R&R



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: C-33 Broadway Corridor

Phase: Construction

Programmed Amount: \$8,698,400

Core Business: Wastewater

Category: Collection R&R

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construct sewer infrastructure to support growth in the Central Sewershed

Description and Scope:

The "C_33_Broadway Corridor_Carnahan to Mulberry" project consists of approximately 7,200 linear feet of 12-inch, 36-inch, 42-inch, 54-inch, and 60-inch wastewater mains. The project will construct a 60-inch, 54-inch, 42-inch, and 36-inch gravity main in the Central Basin along Avenue B from East Mulberry Avenue to north of Tuleta and a 12-inch gravity main along Broadway between East Mulberry Avenue and Pershing Avenue.

Remarks:

formerly C-3 (C-2 to C-6)

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

0
\$0

DesignYear:

2009
\$1,200,000

Construction Year

2011
\$8,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Lift Stations Rehabilitation - Phase 2

Phase: Construction

Programmed Amount: \$7,067,450

Core Business: Wastewater

Category: Collection R&R

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Collection infrastructure.

Description and Scope:

Rehabilitate approximately 40 sewer lift stations to assure full compliance with Texas Commission on Environmental Quality (TCEQ) regulatory requirements, as well as other applicable local, state and federal codes. Project includes a Radio Path Survey for future use, incorporating the lift stations into the SAWS Supervisory, Control and Data Acquisition (SCADA) network. Project will be based on the recommendations from the associated lift station assessment study.

Remarks:

Construction in two phases over 2010-11 at a total cost of \$14 million.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Unsustainable Equipment

Failure Impact:

Environmental Impact

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

6

Risk Mitigation

9

Risk Exposure

486

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

2009
\$1,500,000

Construction Year

2011
\$6,500,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: San Antonio River Outfall Pipeline Rehabilitation

Phase: Design

Programmed Amount: \$1,087,300

Core Business: Wastewater

Category: Collection R&R

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate or Replace the San Antonio River Outfall (SARO) Pipeline

Description and Scope:

This project will assess, and either rehabilitate or replace the 48-inch diameter SARO pipeline starting at Henderson Court and ending approximately 5.7 miles downstream at the 90-inch outfall at the decommissioned Salado Creek WRC headworks.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

LandYear:

0
\$0

DesignYear:

2011
\$1,000,000

Construction Year

2012
\$10,000,000

Amounts shown are estimated costs without SAWS overhead.



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Sanitary Sewer Overflow Rehabilitation

Phase: Construction

Programmed Amount: \$8,698,400

Core Business: Wastewater

Category: Collection R&R

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate Pipelines that are experiencing Sanitary Sewer Overflows (SSO)

Description and Scope:

This project will assess and rehabilitate sanitary sewer pipelines that experience SSOs throughout the service area, and rehabilitate the pipelines using the appropriate method. This is a multiyear project.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

LandYear:

0
\$0

DesignYear:

0
\$0

Construction Year

2011
\$8,000,000

Amounts shown are estimated costs without SAWS overhead.



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Wastewater Corporate WW



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Data Warehouse

Phase: Acquisition

Programmed Amount: \$271,825

Core Business: Wastewater

Category: Corporate WW

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Provide an enterprise data management framework

Description and Scope:

This project will provide an enterprise data management framework and related first set of reports to integrate data from disparate sources to support timely data access, offering more accurate reporting that results in a decision support system for operational and strategic decision making.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Corporate Mandate

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

Corporate Mandate

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

2011
\$250,000

DesignYear:

0
\$0

Construction Year

0
\$0



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Enterprise Resource Software System (ERSS) - Wastewater Share

Phase: Acquisition **Programmed Amount:** \$1,087,300

Core Business: Wastewater **Category:** Corporate WW

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Improve operational efficiency.

Description and Scope:

This project implements an Enterprise Resource Software System (ERSS) that includes the following modules: Customer Service, Financial, Human Resources, Work Order, and permitting at the SAWS Headquarters. This work is required because the current legacy systems are not integrated and do not provide the functionality needed to run the business efficiently and effectively. The costs include software, hardware, professional services, capitalized payroll for in-house staff, and capitalized facility expenses.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Corporate Mandate | Failure Impact: Failure of Corporate Initiative | Failure Root Cause: Corporate Mandate |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------------|---------------------------------------|------------------------------|------------------------------|
| Impact Severity 10 | Likelihood of Occurrence 10 | Risk Mitigation 10 | Risk Exposure 1000 |
|------------------------------|---------------------------------------|------------------------------|------------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. 2011 \$1,000,000 | | |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Lawson Strategic Sourcing, Contracting, and Landmark Implementation

Phase: Acquisition **Programmed Amount:** \$380,555

Core Business: Wastewater **Category:** Corporate WW

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Continue to leverage Lawson platform

Description and Scope:

This platform is required for the Strategic Sourcing and Contracting applications and will eventually house all of Lawson's core applications.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Corporate Mandate | Failure Impact: Failure of Corporate Initiative | Failure Root Cause: Corporate Mandate |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------------|---------------------------------------|------------------------------|------------------------------|
| Impact Severity 10 | Likelihood of Occurrence 10 | Risk Mitigation 10 | Risk Exposure 1000 |
|------------------------------|---------------------------------------|------------------------------|------------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. 350000 \$0 | 0 \$0 | 0 \$0 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Security Master Plan & Access Control

Phase: Construction

Programmed Amount: \$1,141,665

Core Business: Wastewater

Category: Corporate WW

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Install new security system.

Description and Scope:

The current access control system is outdated and overtaxed. This project is to upgrade/install a new security access control system at various SAWS locations. The project includes costs for facilities construction and the purchase, installation, and integration of new system components.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Corporate Mandate

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

Obsolescence

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

LandYear:

0
\$0

DesignYear:

0
\$0

Construction Year

2011
\$1,050,000

Amounts shown are estimated costs without SAWS overhead.



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Service Center Facility Plan Project (Wastewater Share)

Phase: Design

Programmed Amount: \$815,475

Core Business: Wastewater

Category: Corporate WW

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: To develop a Service Center Master Plan through 2021

Description and Scope:

The purpose of this project is to program, design, locate, and construct new Service Centers, Satellite Centers and make any required adjustments to the existing properties as a result of relocated staff.

SAWS currently has increased risk by having fleet and production on same site at NWSC. SAWS current Service Center locations prevent D&C from response in less than 30 minutes, the time it takes for EARZ to become contaminated. Realignment would address eliminate both of these risks.

Remarks:

Based on previous Operations Research assessment, this project will improve D&C response time at all facilities and allow for a master planned realignment that increases efficiencies in production, RPC and customer service.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

HAZMAT Spill

Failure Impact:

Environmental Impact

Failure Root Cause:

Corporate Mandate

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

8

Risk Mitigation

9

Risk Exposure

648

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

2011
\$750,000

Construction Year

2012
\$6,750,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Wastewater Governmental Sewer



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Governmental Sewer Adjustments

Phase: Construction

Programmed Amount: \$5,219,040

Core Business: Wastewater

Category: Governmental Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Realign Collection lines due to conflicts with other agencies work.

Description and Scope:

Governmental Program Adjustments consists of projects implemented in conjunction with other government entities, when they implement maintenance or capital improvement projects. Through this program, SAWS participates in the relocation and replacement of sewer facilities, when appropriate or required. Unspecified scope.

Remarks:

This is an annually recurring project.

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Excessive Downtime

Failure Root Cause:

Conflict with City or State

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

9

Risk Mitigation

10

Risk Exposure

810

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2011

\$4,800,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Governmental Sewer Installations

Phase: Construction

Programmed Amount: \$1,087,300

Core Business: Wastewater

Category: Governmental Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase system capacity for future growth.

Description and Scope:

Governmental Program Installations is used to install new mains in conjunction and coordination with Master Plan projects. Unspecified scope.

Remarks:

This is an annually recurring project.

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Service Interruption

Failure Root Cause:

Conflict with City or State

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

9

Risk Mitigation

8

Risk Exposure

648

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2011

\$1,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Governmental Sewer Replacements

Phase: Construction

Programmed Amount: \$9,785,700

Core Business: Wastewater

Category: Governmental Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Replace Collection lines due to condition by joint bidding with other agencies wo

Description and Scope:

Governmental Program Replacements consists of projects implemented in conjunction with other government entities, when they implement maintenance and/or capital improvement projects. Through this program, SAWS participates in the relocation and replacement of sewer facilities, when appropriate or required. Unspecified scope.

Remarks:

This is an annually recurring project.

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Excessive Downtime

Failure Root Cause:

Conflict with City or State

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

8

Risk Mitigation

10

Risk Exposure

720

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2011

\$9,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Wastewater

Main Replacement - Sewer



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Annual Survey Sewer 2011

Phase: Design

Programmed Amount: \$108,730

Core Business: Wastewater

Category: Main Replacement - Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Collection infrastructure.

Description and Scope:

This project is to support in-house design of collection and distribution project development and implementation for projects throughout the system. Contract requirements include topographic data as necessary, plat & field notes and other ancillary items to complete the work.

Remarks:

This is an annually recurring project.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|-----------------------|-------------------------|----------------------------|
| Failure Mode: | Failure Impact: | Failure Root Cause: |
| Inadequate Facilities | Customer Disatisfaction | Other/Deterioration |

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------|---------------------------------|------------------------|----------------------|
| Impact Severity | Likelihood of Occurrence | Risk Mitigation | Risk Exposure |
| 9 | 9 | 9 | 729 |

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. | 2011 \$100,000 | |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: CIPP Contract 2011

Phase: Construction

Programmed Amount: \$4,349,200

Core Business: Wastewater

Category: Main Replacement - Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Collection infrastructure.

Description and Scope:

Rehabilitate several thousand linear feet of various diameter sewer mains systemwide. Provides a mechanism to rehabilitate deteriorated small and large diameter sewer mains that cannot be repaired using conventional open cut methods. The new mains range between 8-inch to 54-inch of Cured-in-place Thermosetting Resin pipe and discharge to existing system.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Line Failure

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$4,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Eastern Wastewater Sewer Siphon 6 Rehab and Replacement

Phase: Construction

Programmed Amount: \$2,174,600

Core Business: Wastewater

Category: Main Replacement - Sewer

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Rehab and replace aging collection system.

Description and Scope:

The project will replace one of the older siphon lines going under Salado Creek.

Remarks:

This project will be designed using an unspecified contract.

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

8

Risk Mitigation

10

Risk Exposure

800

V. FUNDING INFORMATION

LandYear:

0
\$0

DesignYear:

2010
\$0

Construction Year

2011
\$2,000,000

Amounts shown are estimated costs without SAWS overhead.



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Main Replacements - Sewer - SAWS Crews

Phase: Construction

Programmed Amount: \$1,087,300

Core Business: Wastewater

Category: Main Replacement - Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Collection infrastructure.

Description and Scope:

Capital Improvements Program (CIP) funds transferred to Distribution and Collection Operations for the replacement of failing sewer mains, emergencies or otherwise, in various parts of the city. The work is performed by in-house construction crews. Unspecified scope.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|----------------------|------------------------|----------------------------|
| Failure Mode: | Failure Impact: | Failure Root Cause: |
| Repeated Line Breaks | SSO | Age/Deterioration |

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------|---------------------------------|------------------------|----------------------|
| Impact Severity | Likelihood of Occurrence | Risk Mitigation | Risk Exposure |
| 5 | 9 | 5 | 225 |

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| | | 2011 |
| Amounts shown are estimated costs without SAWS overhead. | | \$1,000,000 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Open-Cut Pipe Replacement Contract Sewer 2011

Phase: Construction

Programmed Amount: \$2,174,600

Core Business: Wastewater

Category: Main Replacement - Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Replace aging / failing collection system infrastructure

Description and Scope:

Replace several thousand linear feet of various diameter sewer mains system-wide. Provides a mechanism to replace deteriorated small and medium diameter sewer mains quickly by conventional open-cut methods when rehabilitation by pipe-bursting or CIPP is not feasible. The replacement mains will range in size from 8-inches to 33-inches in diameter and will be sufficiently engineered to convey anticipated wastewater flows and maintain system integrity.

Remarks:

Projects will be tasked by work orders under this contract.

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

10

Risk Mitigation

8

Risk Exposure

720

V. FUNDING INFORMATION

LandYear:

0
\$0

DesignYear:

0
\$0

Construction Year

2011
\$2,000,000

Amounts shown are estimated costs without SAWS overhead.



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Pipe Bursting Contract 2011

Phase: Construction

Programmed Amount: \$8,698,400

Core Business: Wastewater

Category: Main Replacement - Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Collection infrastructure.

Description and Scope:

Rehabilitate several thousand linear feet of various diameter sewer mains systemwide. Provides a mechanism to rehabilitate deteriorated small and large diameter sewer mains that cannot be repaired using conventional open cut methods.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

10

Risk Mitigation

8

Risk Exposure

720

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$8,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Sewer Laterals 2011

Phase: Construction

Programmed Amount: \$1,087,300

Core Business: Wastewater

Category: Main Replacement - Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Collection infrastructure.

Description and Scope:

In-house program for replacment of failing sewer laterals, to eliminate/reduce inflow and infiltration (I&I). Project improves the operational efficiency and reduces the potential and risk of surcharges in the collection system. Work is performed by Distribution and Collection Operations construction crews. Unspecified scope.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

SSO

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

8

Likelihood of Occurrence

8

Risk Mitigation

10

Risk Exposure

640

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2011

\$1,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Unspecified Services Engineering Contract Sewer

Phase: Design

Programmed Amount: \$2,174,600

Core Business: Wastewater

Category: Main Replacement - Sewer

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Collection infrastructure.

Description and Scope:

This annual fund will fund design services to repair/replace sewer mains that have experienced cave-ins and overflows. These projects vary in size and location and may require the solicitation of contractor construction services on a rushed or non-advanced urgent basis. These projects will be constructed on an emergency basis to correct unsanitary and potentially hazardous conditions that pose a threat to public health and safety.

Remarks:

This is an annually recurring project.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Inadequate Facilities | Failure Impact: Customer Disatisfaction | Failure Root Cause: Other/Deterioration |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|
| Impact Severity 9 | Likelihood of Occurrence 9 | Risk Mitigation 9 | Risk Exposure 729 |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|

V. FUNDING INFORMATION

| | | |
|--|---|--------------------------|
| LandYear: Amounts shown are estimated costs without SAWS overhead. | DesignYear: 2011 \$2,000,000 | Construction Year |
|--|---|--------------------------|



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Wastewater Treatment Growth



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Dos Rios WRC Re-rating Phase I - Headworks Improvements and System Enhancements

Phase: Construction

Programmed Amount: \$16,309,500

Core Business: Wastewater

Category: Treatment Growth

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Expand and improve preliminary treatment facilities at the Dos Rios WRC.

Description and Scope:

Presently the WRC plant has a rated capacity of 125 MGD. In 2005 the WRC evaluated the Dos Rios for treatment capability and for hydraulic capacity. It was determined the plant's capacity could be increased by 50%. The improvements to the plant can be done in phases. The first phase will not only provide capacity for growth, but will also correct the weakest link in the treatment process which is the preliminary treatment (the headworks area) part of the plant. The project will add new Influent Pipe/Meters and additional new step screens; replace the aerated grit units with vortex grit units; and retrofit the pre-aeration chambers to accommodate the new vortex grit units.

Remarks:

Construction scheduled for 2011.

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

SSO

Failure Root Cause:

Undersized Equipment

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

9

Risk Mitigation

10

Risk Exposure

810

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

0
\$0

DesignYear:

2008
\$1,200,000

Construction Year

2011
\$15,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Wastewater Treatment R&R



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Dos Rios Electrical Master Plan

Phase: Design

Programmed Amount: \$217,460

Core Business: Wastewater

Category: Treatment R&R

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Develop plan to upgrade electrical equipment at Dos Rios

Description and Scope:

The Dos Rios Electrical System Assessment and Energy Audit will lay the groundwork for electrical improvements to be included in the future phases of the Dos Rios Re-rating. Primary objectives include developing reliable high-energy systems and reducing overall energy demand and costs. The Electrical System Assessment will include a complete electrical systems review, including incoming gear, substations, transformers, motor control centers, and switchgear, along with a Load Flow Study, Short-Circuit Study, Protective Device Coordination Study, and Arc Flash Study. The Energy Audit will focus on energy-reduction and will cover all of the plant processes, especially aeration and pumping processes which are the highest energy-consumers in the plant.

Remarks:

In 2009, the Dos Rios Digester Mixing and System Enhancements project was in danger of being postponed due to major issues with the solids handling system electrical gear that might have cost \$8,000,000 to address in 2010 had the electrical engineer not been forced to go back to the drawing board and reassess their approach to find a way to phase the needed improvements. Since Dos Rios is now over twenty (20) years old, it is expected that these issues will come up again and again since NEC requirements have changed and loads have been added to our power feed equipment without reassessing capacity and condition.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Unsustainable Equipment | Failure Impact: Increased Maintenance | Failure Root Cause: Age/Deterioration |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|
| Impact Severity 8 | Likelihood of Occurrence 8 | Risk Mitigation 8 | Risk Exposure 512 |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. 0 | 2011 | |
| \$0 | \$200,000 | |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Dos Rios WRC Digester Mixing and System Enhancements - Phase 2

Phase: Design

Programmed Amount: \$1,022,062

Core Business: Wastewater

Category: Treatment R&R

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing treatment infrastructure and increase digestion capacity

Description and Scope:

The design will address improvements to four existing digesters at the digester complex including the repair of dome roof seams, foof liner, dome hatches/man-ways, dome pressure/vacuum relief assemblies and three-way valves. The existing digester mixing system will be replaced. Enhancements of up to four existing digester gas meters will be made if necessary. The digester pumping and heat exchanger system will rehabilitated or replaced.

Remarks:

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Unsustainable Equipment | Failure Impact: Increased Maintenance | Failure Root Cause: Age/Deterioration |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|
| Impact Severity 9 | Likelihood of Occurrence 8 | Risk Mitigation 9 | Risk Exposure 648 |
|-----------------------------|--------------------------------------|-----------------------------|-----------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. | 2011 \$940,000 | 2012 \$9,400,000 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Water Delivery Corporate WD



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Access Control

Phase: Construction

Programmed Amount: \$1,214,010

Core Business: Water Delivery

Category: Corporate WD

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Install new security system.

Description and Scope:

The current access control system is outdated and overtaxed. This project is to upgrade/install a new security access control system at various SAWS locations. The project includes costs for facilities construction and the purchase, installation, and integration of new system components.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Corporate Mandate

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

Obsolescence

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

0
\$0

DesignYear:

0
\$0

Construction Year

2011
\$1,050,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Data Warehouse

Phase: Acquisition

Programmed Amount: \$289,050

Core Business: Water Delivery

Category: Corporate WD

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Provide an enterprise data management framework

Description and Scope:

This project will provide an enterprise data management framework and related first set of reports to integrate data from disparate sources to support timely data access, offering more accurate reporting that results in a decision support system for operational and strategic decision making.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Corporate Mandate

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

Corporate Mandate

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

2011
\$250,000

DesignYear:

0
\$0

Construction Year

0
\$0



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Enterprise Resource Software System (ERSS) - Water Share

Phase: Acquisition **Programmed Amount:** \$1,156,200

Core Business: Water Delivery **Category:** Corporate WD

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Improve operational efficiency.

Description and Scope:

This project implements an Enterprise Resource Software System (ERSS) that includes the following modules: Customer Service, Financial, Human Resources, Work Order, and permitting at the SAWS Headquarters. This work is required because the current legacy systems are not integrated and do not provide the functionality needed to run the business efficiently and effectively. The costs include software, hardware, professional services, capitalized payroll for in-house staff, and capitalized facility expenses.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Corporate Mandate | Failure Impact: Failure of Corporate Initiative | Failure Root Cause: Corporate Mandate |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------------|---------------------------------------|------------------------------|------------------------------|
| Impact Severity 10 | Likelihood of Occurrence 10 | Risk Mitigation 10 | Risk Exposure 1000 |
|------------------------------|---------------------------------------|------------------------------|------------------------------|

V. FUNDING INFORMATION **LandYear:** **DesignYear:** **Construction Year**

Amounts shown are estimated costs without SAWS overhead. 2011
\$1,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Lawson Strategic Sourcing, Contracting, and Landmark Implementation

Phase: Acquisition **Programmed Amount:** \$404,670

Core Business: Water Delivery **Category:** Corporate WD

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Continue to leverage Lawson platform

Description and Scope:

This platform is required for the Strategic Sourcing and Contracting applications and will eventually house all of Lawson's core applications.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Corporate Mandate | Failure Impact: Failure of Corporate Initiative | Failure Root Cause: Corporate Mandate |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|------------------------------|---------------------------------------|------------------------------|------------------------------|
| Impact Severity 10 | Likelihood of Occurrence 10 | Risk Mitigation 10 | Risk Exposure 1000 |
|------------------------------|---------------------------------------|------------------------------|------------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. 350000 \$0 | 0 \$0 | 0 \$0 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Service Center Facility Plan Project (Water Share)

Phase: Design

Programmed Amount: \$867,150

Core Business: Water Delivery

Category: Corporate WD

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: To develop a Service Center Master Plan through 2021

Description and Scope:

The purpose of this project is to program, design, locate, and construct new Service Centers, Satellite Centers and make any required adjustments to the existing properties as a result of relocated staff.

SAWS currently has increased risk by having fleet and production on same site at NWSC. SAWS current Service Center locations prevent D&C from response in less than 30 minutes, the time it takes for EARZ to become contaminated. Realignment would address eliminate both of these risks.

Remarks:

Based on previous Operations Research assessment, this project will improve D&C response time at all facilities and allow for a master planned realignment that increases efficiencies in production, RPC and customer service.

Risk Assessment:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

HAZMAT Spill

Failure Impact:

Environmental Impact

Failure Root Cause:

Corporate Mandate

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

8

Risk Mitigation

9

Risk Exposure

648

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

2011
\$750,000

Construction Year

2012
\$6,750,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Water Delivery Distribution Growth



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Brightwood Main 8-inch Water Line

Phase: Construction

Programmed Amount: \$578,100

Core Business: Water Delivery

Category: Distribution Growth

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Install new water line

Description and Scope:

Alamo Heights serves some SAWS customers, but will stop service in the near future when AH moves some of their water lines from the alley. Project includes the relocation of water main and relaying of approximately 30 services from alley between Claywood within Alamo Heights city limits and Brightwood within COSA city limits.

Remarks:

The water and sewer mains in the alley between Claywood and Brightwood do not meet TCEQ separation requirements.

Currently the City of Alamo Heights provides water and sewer service, and associated billing, to approximately 30 homes within SAWS service area.

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Customer Disatisfaction

Failure Root Cause:

Other/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

9

Risk Mitigation

9

Risk Exposure

729

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$500,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Micron 48-inch Water Main Extension to Anderson Tank (7-1)

Phase: Construction

Programmed Amount: \$3,121,740

Core Business: Water Delivery

Category: Distribution Growth

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Improve operational efficiency.

Description and Scope:

Project installs 2,000 LF of 48" water main, underneath 1604, East-to-West, to tie SAWS water from Anderson Pump Station to SAWS water from Micron Pump Station. Required by Master Plan. In-house design.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

Low Flow/Pressure

Failure Root Cause:

Undersized Lines

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

6

Risk Mitigation

9

Risk Exposure

486

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

2010
\$120,000

Construction Year

2011
\$2,700,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Water Main Oversizing 2011

Phase: Construction

Programmed Amount: \$2,312,400

Core Business: Water Delivery

Category: Distribution Growth

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Oversize water distribution system for future growth.

Description and Scope:

Pay for SAWS proportionate share of the cost of mains which are necessary to serve anticipated growth but are larger than the size main required by a developer customer or single customer. This annual requirement provides funds to oversize various water main installations throughout the service area. Unspecified scope.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

Low Flow/Pressure

Failure Root Cause:

Undersized Lines

IV. RISK ASSESSMENT RATING

Impact Severity

5

Likelihood of Occurrence

8

Risk Mitigation

10

Risk Exposure

400

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$2,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Water Delivery Governmental Water



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Governmental Water Adjustments

Phase: Construction

Programmed Amount: \$7,052,820

Core Business: Water Delivery

Category: Governmental Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Realign water lines due to conflicts with other agencies work.

Description and Scope:

Governmental Program Adjustments consists of projects implemented in conjunction with other government entities, when they implement maintenance and/or capital improvement projects. Through this program, SAWS participates in the relocation and replacement of water facilities, when appropriate or required. Unspecified scope.

Remarks:

This is an annually recurring project.

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Excessive Downtime

Failure Root Cause:

Conflict with City or State

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

9

Risk Mitigation

10

Risk Exposure

810

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2011

\$6,100,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Governmental Water Installations

Phase: Construction

Programmed Amount: \$809,340

Core Business: Water Delivery

Category: Governmental Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase system capacity for future growth.

Description and Scope:

Governmental Program Installations is used to install new mains in conjunction and coordination with Master Plan projects. Unspecified scope.

Remarks:

This is an annually recurring project.

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Service Interruption

Failure Root Cause:

Conflict with City or State

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

9

Risk Mitigation

8

Risk Exposure

648

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$700,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Governmental Water Replacements

Phase: Construction

Programmed Amount: \$10,637,040

Core Business: Water Delivery

Category: Governmental Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Replace aging/failing Distribution infrastructure.

Description and Scope:

Governmental Program Replacements consists of projects implemented in conjunction with other government entities, when they implement maintenance and/or capital improvement projects. Through this program, SAWS participates in the relocation and replacement of water facilities, when appropriate or required. Unspecified scope.

Remarks:

This is an annually recurring project.

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Service Interruption

Failure Root Cause:

Conflict with City or State

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

8

Risk Mitigation

10

Risk Exposure

720

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2011

\$9,200,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Water Delivery Main Replacement - Water



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Annual Survey Water 2011

Phase: Design

Programmed Amount: \$115,620

Core Business: Water Delivery

Category: Main Replacement - Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Distribution infrastructure.

Description and Scope:

This project supports in-house design of collection and distribution project development and implementation for projects throughout the system. Contract requirements include topographic data as necessary, plat & field notes and other ancillary items to complete the work.

Remarks:

This is an annually recurring project.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Customer Disatisfaction

Failure Root Cause:

Other/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

9

Risk Mitigation

9

Risk Exposure

729

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$100,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Main Replacements - Water - SAWS Crews

Phase: Construction

Programmed Amount: \$1,156,200

Core Business: Water Delivery

Category: Main Replacement - Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Distribution infrastructure.

Description and Scope:

CIP funds transferred to Distribution and Collection Operations for the replacement of failing water mains, emergencies or otherwise, in various parts of the city. The work is performed by in-house construction crews. Unspecified scope.

Remarks:

This is an annually recurring project.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Repeated Line Breaks

Failure Impact:

Increased Maintenance

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

5

Likelihood of Occurrence

5

Risk Mitigation

5

Risk Exposure

125

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$1,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Meter Replacements

Phase: Construction

Programmed Amount: \$1,271,820

Core Business: Water Delivery

Category: Main Replacement - Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Replace aging water meters

Description and Scope:

Replace aging water meters in a defined geographical area, reducing the amount of unaccounted for water.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Corporate Mandate

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

Corporate Mandate

IV. RISK ASSESSMENT RATING

Impact Severity

10

Likelihood of Occurrence

10

Risk Mitigation

10

Risk Exposure

1000

V. FUNDING INFORMATION

LandYear:

0
\$0

DesignYear:

0
\$0

Construction Year

2011
\$1,100,000

Amounts shown are estimated costs without SAWS overhead.



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Open Cut Water Contract

Phase: Construction

Programmed Amount: \$1,156,200

Core Business: Water Delivery

Category: Main Replacement - Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Replace several thousand feet of various diameter water mains system wide.

Description and Scope:

Replace several thousand feet of various diameter water mains system wide.

Remarks:

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Line Collapse

Failure Impact:

Low Flow/Pressure

Failure Root Cause:

Age/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

8

Risk Mitigation

10

Risk Exposure

720

V. FUNDING INFORMATION

LandYear:

0
\$0

DesignYear:

0
\$0

Construction Year

2011
\$1,000,000

Amounts shown are estimated costs without SAWS overhead.



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Unspecified Services Engineering Contract Water

Phase: Design

Programmed Amount: \$462,480

Core Business: Water Delivery

Category: Main Replacement - Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Rehabilitate aging/failing Distribution infrastructure.

Description and Scope:

This annual fund will fund design services to repair/replace water mains that have experienced a high rate of main failure. These projects vary in size and location, and may require the solicitation of contractor construction services on a rushed or non-advanced urgent basis. Projects will replace sub-standard or deteriorated water mains requiring immediate replacements.

Remarks:

This is an annually recurring project.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Service Interruption

Failure Impact:

Customer Disatisfaction

Failure Root Cause:

Other/Deterioration

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

9

Risk Mitigation

9

Risk Exposure

729

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

2011

Construction Year

\$400,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Valves, Services and Meters

Phase: Construction

Programmed Amount: \$3,468,600

Core Business: Water Delivery

Category: Main Replacement - Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Replace obsolete or unsustainable Distribution systems or equipment.

Description and Scope:

Provides for the installation or replacement of unserviceable valves, services, meters, fire hydrants, and other water system appurtenances. Work is performed by in-house Distribution and Collection Operations crews, as requirements arise. Unspecified scope.

Remarks:

This is an annually recurring project.

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Unsustainable Equipment

Failure Impact:

Service Interruption

Failure Root Cause:

Critical Equipment Failure

IV. RISK ASSESSMENT RATING

Impact Severity

8

Likelihood of Occurrence

9

Risk Mitigation

8

Risk Exposure

576

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2011

\$3,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Water Delivery Production Growth



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Anderson Pump Station Improvements

Phase: Construction

Programmed Amount: \$10,926,090

Core Business: Water Delivery

Category: Production Growth

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Increase system capacity for future growth.

Description and Scope:

Master Plan project. Provides for replacing all six existing 10 million-gallon-per-day (MGD) high service pumps (HSP) rated at 105 feet of head with four new 15 MGD and two new 10 MGD pumps rated at 150 feet of head, raising the total and firm capacities of the station to 70 and 55 MGD respectively. Also installs new 7.5 MG GST. Include the chlorine system and switch gear.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Capacity

Failure Impact:

Low Flow/Pressure

Failure Root Cause:

Undersized Equipment

IV. RISK ASSESSMENT RATING

Impact Severity

9

Likelihood of Occurrence

8

Risk Mitigation

10

Risk Exposure

720

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

2007
\$588,240

Construction Year

2011
\$9,450,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Water Delivery Production R&R



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Judson Tank Replacement Project

Phase: Design

Programmed Amount: \$289,050

Core Business: Water Delivery

Category: Production R&R

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Demolish old tank and construct new tank close to Marbach PS

Description and Scope:

Project consists of the demolition of the existing 250,000 gallon elevated storage tank located on Stahl Road and the construction of a new 1.0 MG elevated storage tank.

Remarks:

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Storage

Failure Impact:

Customer Disatisfaction

Failure Root Cause:

Undersized Equipment

IV. RISK ASSESSMENT RATING

Impact Severity

7

Likelihood of Occurrence

6

Risk Mitigation

6

Risk Exposure

252

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

2012

\$250,000

\$3,800,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Relocate Loma Linda Tank

Phase: Acquisition

Programmed Amount: \$231,240

Core Business: Water Delivery

Category: Production R&R

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Demolish old tank and construct new tank close to Marbach PS

Description and Scope:

Project consists of the demolition of the existing 1.5 MG Loma Linda EST located on Loma Linda Drive and the construction of a new 1.5 MG elevated storage tank located close to Marbach PS.

Remarks:

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Inadequate Storage

Failure Impact:

Customer Disatisfaction

Failure Root Cause:

Undersized Equipment

IV. RISK ASSESSMENT RATING

Impact Severity

7

Likelihood of Occurrence

6

Risk Mitigation

6

Risk Exposure

252

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

2011
\$200,000

DesignYear:

2012
\$300,000

Construction Year

2013
\$3,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Replace Tanks at Port SA Phase 1

Phase: Construction

Programmed Amount: \$1,271,820

Core Business: Water Delivery

Category: Production R&R

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Replace unsustainable equipment due to age and deterioration.

Description and Scope:

Construction of a 1.0 MG composite elevated storage tank that will replace Tinker and Jefferson Tanks and serve Port San Antonio and will be located in the general vicinity of Port San Antonio serving Pressure Zone 4A in southwest Bexar County.

May be delayed or eliminated based on new Master Plan.

Remarks:

Operating Impact:

III. FAILURE ANALYSIS

| | | |
|---|---|---|
| Failure Mode: Unsustainable Equipment | Failure Impact: Regulatory Non-compliance | Failure Root Cause: Age/Deterioration |
|---|---|---|

IV. RISK ASSESSMENT RATING

| | | | |
|-----------------------------|--------------------------------------|------------------------------|-----------------------------|
| Impact Severity 9 | Likelihood of Occurrence 9 | Risk Mitigation 10 | Risk Exposure 810 |
|-----------------------------|--------------------------------------|------------------------------|-----------------------------|

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. 0 | 2010 | 2011 |
| \$0 | \$100,000 | \$1,100,000 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Water Supply
Recycled Water



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Pinn Rd. Pump Station Upgrade

Phase: Construction

Programmed Amount: \$549,800

Core Business: Water Supply

Category: Recycled Water

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Increase recycled water pumping capacity.

Description and Scope:

Addition of pumps and appurtanences at the Pinn Rd. Recycled Water Pump Station. This project will provide for adequate supply as the customer base grows. Redundancy will be provided for the critical customers such as Microsoft, Toyota, etc.

Remarks:

Operating Impact: This project will reduce operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Failure Impact:

Failure Root Cause:

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

0
\$0

2009
\$75,000

2011
\$500,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Recycle Customer Lines

Phase: Construction

Programmed Amount: \$1,099,600

Core Business: Water Supply

Category: Recycled Water

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase use of Recycled Water

Description and Scope:

Economic incentives provided to encourage greater use of recycled water.

Remarks:

Operating Impact: This project will have no significant impact on operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2011

\$1,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

Water Supply Water Resources



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Desalination: Additional Pilot Testing

Phase: Construction

Programmed Amount: \$216,920

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Obtain TCEQ approval of three Reverse Osmosis Membranes prior to constructio

Description and Scope:

The Scope of Work shall include the design of the testing protocol, field testing of reverse osmosis membranes from two additional membrane manufactures and the development of a report to TCEQ.

The testing of the two additional membranes in combination with the previous pilot testing will create a more competitive environment for acquisition of membranes for the full scale plant. Pilot testing of membranes from each manufacture is required by TCEQ.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan.

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

0
\$0

DesignYear:

2011
\$200,000

Construction Year



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Desalination: Constructability Review

Phase: Design

Programmed Amount: \$542,300

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Obtain constructability review of the design work produced by the Program Man

Description and Scope:

The Scope of Work will include the review of designs for each component of the Brackish Groundwater Desalination Program. Review will be coordinated with each of the design engineers under the Brackish Groundwater Desalination Program Manager

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan.

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2011

\$500,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Desalination: Legal

Phase: Acquisition

Programmed Amount: \$488,070

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

Council District:
 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Increase available water supply.

Description and Scope:

The legal services required are associated with land purchase, easement acquisition, acquisition of groundwater rights, and development of an alternative procurement service contract for the desalination project.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan.

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

2011
\$450,000

DesignYear:

0
\$0

Construction Year



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Desalination: Production Well Design Services -- Package 1

Phase: Construction

Programmed Amount: \$11,930,600

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Construction of eight (8) production wells for the Brackish Groundwater Desalin

Description and Scope:

The Scope of Work shall include the drilling and construction of eight brackish groundwater desalination production wells associated with the Brackish Groundwater Desalination Project. In addition, construction of a portion of the well field access roads required for the project will be completed.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan.

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

| | | | |
|---|-----|--------------------|--------------|
| LandYear: | 0 | DesignYear: | 2010 |
| Construction Year | | | 2011 |
| Amounts shown are estimated costs without SAWS overhead. | \$0 | | \$11,000,000 |
| | | \$1,200,000 | \$11,000,000 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Integration: Land Acquisition

Phase: Acquisition

Programmed Amount: \$4,555,320

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase available water supply.

Description and Scope:

Acquisition of easements for pipeline Right-of-Way and permanent property purchases for facilities to integrate water treated at the ASR facility with the western portion of the SAWS service area.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in the 50-year water resource plan.

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Failure Impact:

Failure Root Cause:

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. | 2011 | 0 |
| | \$4,200,000 | \$0 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Regional Carrizo Phase IB Gonzales: PS at Buckhorn and Booster

Phase: Construction

Programmed Amount: \$10,846,000

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase Edwards Aquifer Supply.

Description and Scope:

Construction of a pump station at the Buckhorn Well Field in western Gonzales County and a booster pump station in eastern Wilson County.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2010

2011

\$400,000

\$10,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Regional Carrizo Program: Buckhorn - SSLGC WTP Pipeline

Phase: Construction

Programmed Amount: \$10,846,000

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Increase available water supply.

Description and Scope:

Design of a raw water transmission pipeline to transport water from SAWS' Buckhorn Pump Station to SSLGC's Water Treatment Plant in Guadalupe County for treatment.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2010

2011

\$1,500,000

\$10,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Regional Carrizo Program: Legal

Phase: Acquisition

Programmed Amount: \$92,191

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase available water supply.

Description and Scope:

The legal services required are associated with land purchase, easements acquisition, acquisition of groundwater rights and permits for the Regional Carrizo Project.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in the 50-year water resource plan.

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

Failure Impact:

Failure Root Cause:

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

| | | |
|--|--------------------|--------------------------|
| LandYear: | DesignYear: | Construction Year |
| Amounts shown are estimated costs without SAWS overhead. | 0 | 2011 |
| 2011 \$85,000 | \$0 | \$0 |



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Regional Carrizo: Buckhorn Well Field Collection System

Phase: Construction

Programmed Amount: \$15,629,086

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase non-Edwards Aquifer Supply.

Description and Scope:

Construction of water collection infrastructure to facilitate completion of program to withdraw Carrizo Aquifer water from Gonzales County.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2010

2011

\$490,000

\$14,410,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Regional Carrizo: Program Management

Phase: Construction

Programmed Amount: \$3,253,800

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase Available Water Supply

Description and Scope:

Program Services to assist SAWS in program-wide design and oversight associated with the overall Regional Carrizo Program.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan.

Operating Impact: This project will increase operating and maintenance costs.

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

0
\$0

0
\$0

2011
\$3,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Regional Carrizo: SSLGC - Naco Pipeline

Phase: Construction

Programmed Amount: \$19,956,640

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

| | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Council District: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

II. PROJECT JUSTIFICATION

Project Objective: Increase available water supply.

Description and Scope:

Design of a water transmission pipeline to transport water from SSLGC's Live Oak Tank to SAWS' Naco Pump Station for integration into the distribution system.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

Amounts shown are estimated costs without SAWS overhead.

LandYear:

DesignYear:

Construction Year

2010

2011

\$1,500,000

\$18,400,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Regional Carrizo: SSLGC/SAWS Booster PS

Phase: Construction

Programmed Amount: \$7,592,200

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Increase available water supply.

Description and Scope:

Design of a booster pump station and ground storage tank at SSLGC's Live Oak Tank in Schertz to help transport treated Carrizo Aquifer water to SAWS' distribution system.

Remarks:

Increase non-Edwards Aquifer supplies in accordance with goals outlined in 50-year water resource plan

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

None

Failure Impact:

Failure of Corporate Initiative

Failure Root Cause:

System Optimization

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

2010

2011

\$650,000

\$7,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Regional Carrizo: Electrical Requirements

Phase: Construction

Programmed Amount: \$2,169,200

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

Council District:

1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective: Increase available water supply.

Description and Scope:

Project will satisfy power requirements of new infrastructure in Gonzales, Comal, and Bexar Counties associated with the Regional Carrizo Program.

Remarks:

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Failure Impact:

Failure Root Cause:

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

0
\$0

0
\$0

2011
\$2,000,000



2011 CAPITAL IMPROVEMENTS PROGRAM Project Data Sheet

I. PROJECT DESCRIPTION

Project: Twin Oaks ASR SCADA Upgrade

Phase: Design

Programmed Amount: \$54,230

Core Business: Water Supply

Category: Water Resources

Execution Year: 2011

Council District: 1 2 3 4 5 6 7 8 9 10

II. PROJECT JUSTIFICATION

Project Objective:

Description and Scope:

Scope of work shall include the design, delivery, field installation and commissioning of all hardware, software, documentation and training for the new secured integrated SCADA system.

Enhancement will ensure that SAWS conforms to stringent state and federal regulatory requirements that affect our system operations and infrastructure security. Improved security, monitoring and control strategies will convert to meet those regulations. Software, communications, and hardware must be upgraded to help meet the challenges of providing high quality services and sustainable infrastructure security threats.

Remarks:

Operating Impact:

III. FAILURE ANALYSIS

Failure Mode:

Failure Impact:

Failure Root Cause:

IV. RISK ASSESSMENT RATING

Impact Severity

Likelihood of Occurrence

Risk Mitigation

Risk Exposure

V. FUNDING INFORMATION

LandYear:

DesignYear:

Construction Year

Amounts shown are estimated costs without SAWS overhead.

0
\$0

2011
\$50,000

2013
\$500,000