

**PEBBLE BEACH
COMMUNITY SERVICES DISTRICT**

**LONG-TERM
CAPITAL OUTLAY PROGRAM**

APRIL 2009



BUDGET REPORT

April 24, 2009

To: PBCSD Board of Directors

From: Christina Baca, PBCSD Assistant Engineer
Nancy Johnson, PBCSD Senior Accountant

Subject: **PBCSD 2009/10 Long-Term Capital Outlay Program**

RECOMMENDATION

It is recommended the Board of Directors approve the PBCSD 2009/10 Long-Term Capital Outlay Program.

SUMMARY OF ISSUES

The PBCSD 2009/10 Long-Term Capital Outlay Program (COP) has a 15-year total cost of **\$23,859,000**. The total cost includes allocations as follows:

2009/10 Long-Term Capital Outlay Program Summary

| | |
|--|---------------|
| Administration Department | \$ 1,854,000 |
| Fire Department | \$ 3,715,000 |
| Maintenance Department | \$ 15,108,000 |
| Carmel Area Wastewater District (CAWD) Treatment Plant | \$ 2,423,000 |
| Recycled Water Storage/Distribution System | \$ 759,000 |

PBCSD's financial responsibilities include the Administration, Fire, and Maintenance Departments; and PBCSD's share of the CAWD Treatment Plant. The total cost of PBCSD's financial responsibilities amount to \$23,100,000, which have an average annual cost, over the life of the COP, of \$1,540,000. The average annual cost for the Recycled Water Storage/Distribution System is \$51,000; however, these costs will be reimbursed to PBCSD by the Pebble Beach Company.

The PBCSD 2009/10 Long-Term COP has a one percent (1%) increase from the 2008/09 Long-Term COP total of \$23,727,000. A summary of the projected outlay changes are as follows:

- The Administration Department outlays decreased by \$51,000 due to increasing the useful life of various items.
- The Fire Department outlays increased by \$200,000 primarily due to decreasing the useful life of the Carmel Hill Station medic engine.
- The Maintenance Department outlays increased by \$1,778,000 due to changes in project scope for the pump station rebuild projects, and inflation costs. Previously, it was assumed that degraded parts would be replaced. PBCSD is now planning to convert five stations to submersible stations, which will require higher construction costs.
- PBCSD's share of CAWD Treatment Plant outlays increase by \$125,000 primarily due to inflation costs.
- Allocations for the Recycled Water Storage/Distribution System increased by \$80,000, also due to inflation costs.
- The capital outlay items for the Fire Protection Water System Improvements were completed and removed from this year's COP with the exception of the Spruance Water 600,000 gallon Storage Tank Project, which was included in the 2008/09 fiscal year budget.

BACKGROUND AND DISCUSSION

The Long-term Capital Outlay Program provides an estimate of PBCSD's capital outlay requirements for the next 15 years. Costs are based on current estimated prices and have not been escalated over the life of the plan. The capital items include both new and replacement capital facilities and equipment. The schedules of capital outlays and cost estimates have been prepared in consultation with the Fire Department Operations Battalion Chief, PBCSD Field Operations Supervisor, PBCSD Engineering Staff, CAWD Treatment Plant staff, PBCSD's consulting engineer and PBCSD managing staff. The COP contents are as follows:

PBCSD 2009/10 Long-Term Capital Outlay Program
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ASSUMPTIONS

The Maintenance Department requirements, described in Exhibit C, include an annual allocation of \$600,000 for sewer line replacement, which allows replacement of approximately one mile of main lines in the wastewater collection system each year.

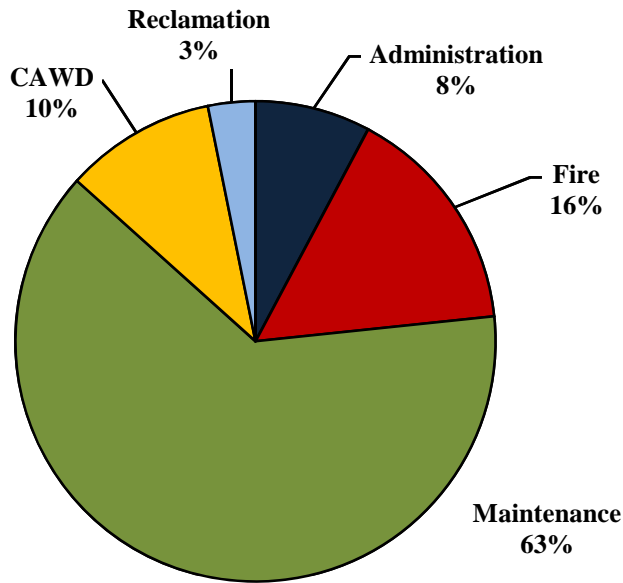
PBCSD's share of CAWD requirements, described in Exhibit D, is based on the current CAWD capital improvement plan through fiscal year 2013/14. The requirements beyond fiscal year 2013/14 are estimated to be \$180,000 annually and will be modified as CAWD revises its long-range capital requirement studies.

2009-10 PBCSD Long-term Capital Outlay Requirements

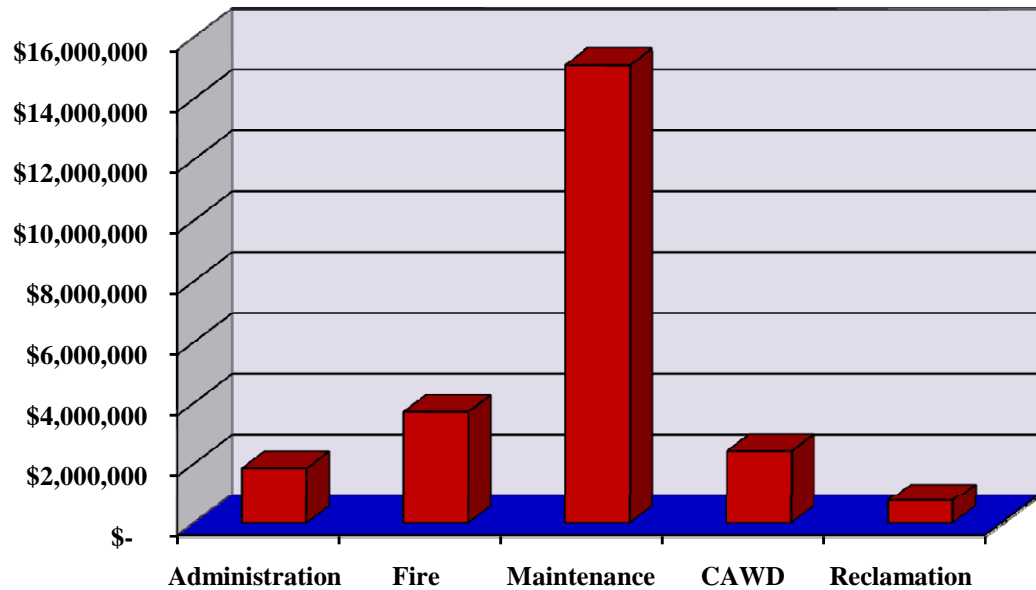
15-YEAR SUMMARY

| Department | 2008-09 Program Total | 2009-10 Program Total | Percent Change | 2009-10 Annual Cost |
|--------------------------|----------------------------------|----------------------------------|---------------------------|--------------------------------|
| Administration | \$ 1,905,000 | \$ 1,854,000 | -3% | \$ 124,000 |
| Fire | \$ 3,515,000 | \$ 3,715,000 | 6% | \$ 248,000 |
| Maintenance | \$ 13,330,000 | \$ 15,108,000 | 13% | \$ 1,007,000 |
| CAWD | <u>\$ 2,298,000</u> | <u>\$ 2,423,000</u> | 5% | <u>\$ 161,000</u> |
| Subtotal | \$ 21,048,000 | \$ 23,100,000 | 10% | \$ 1,540,000 |
| Reclamation | \$ 679,000 | \$ 759,000 | 12% | \$ 51,000 |
| **Fire Protection | \$ 2,000,000 | \$ - | -100% | \$ - |
| 15 YEAR TOTAL | \$ 23,727,000 | \$ 23,859,000 | 1% | \$ 1,591,000 |

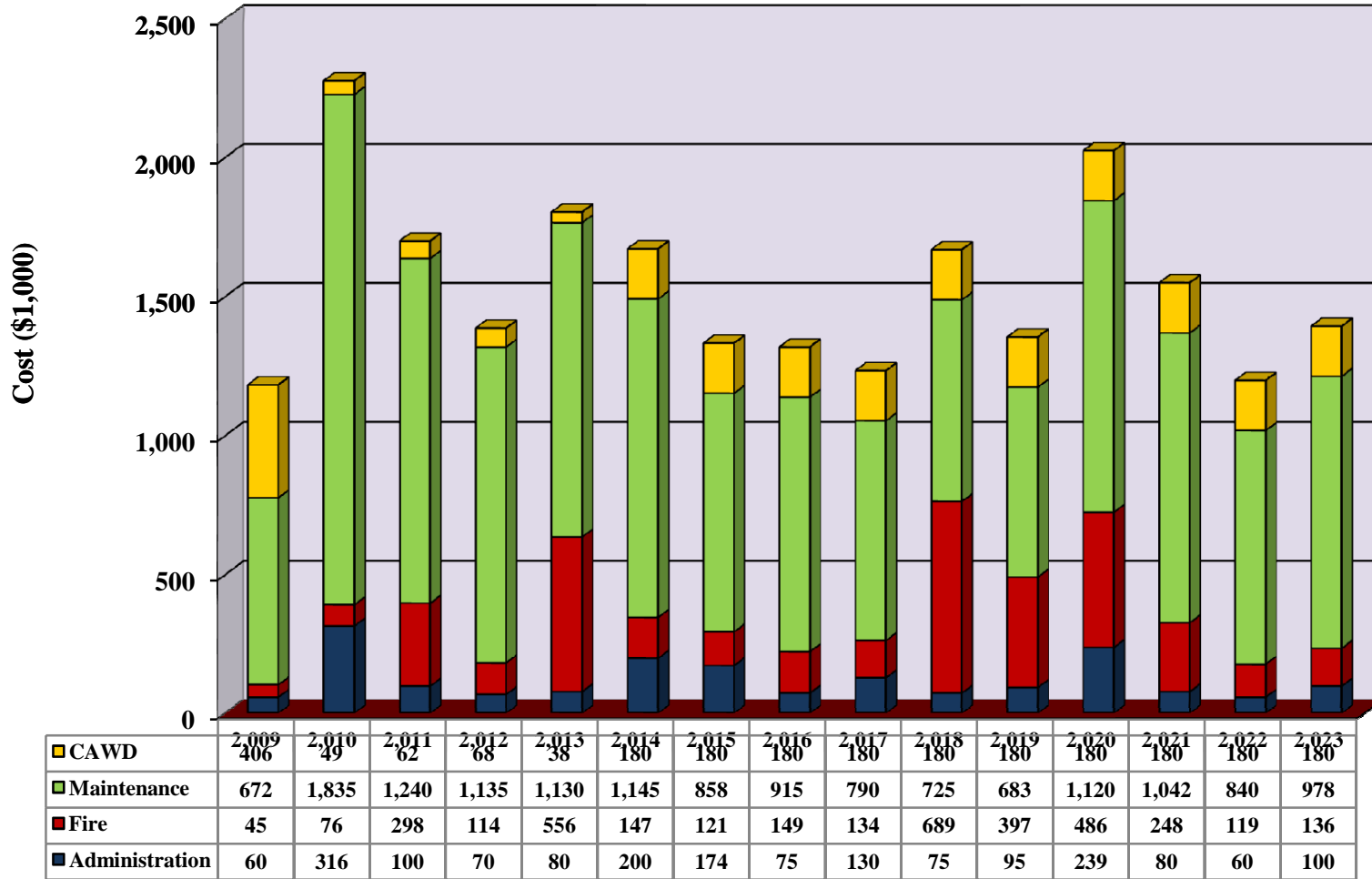
****Discretionary Fire Protection Water System Improvements Projects**



SUMMARY OF COSTS By DEPARTMENT



Annual Cost Allocation by Department



PBCSD

LONG-TERM CAPITAL OUTLAY PROGRAM

PROJECT IDENTIFICATION SYSTEM

AD - Administration Department

CD - Carmel Area Wastewater District

FD - Fire Department

MD - Maintenance Department

RW – Recycled Water Distribution System

| | | |
|-------------------|------------------------|--------------------------------|
| AD | 09 | A |
| Department | Budget Year | Project Designation |

SUMMARY OF ANNUAL CAPITAL REQUIREMENTS

2009-10 LONG-TERM CAPITAL OUTLAY PROGRAM

| Fiscal Year | Capital Item | Cost | Comment |
|--------------------|---------------------------|-------------|----------------|
| 2009/10 | Administration Department | \$60,000 | See Exhibit A |
| | Fire Department | \$45,000 | See Exhibit B |
| | Maintenance Department | \$672,000 | See Exhibit C |
| | CAWD | \$406,000 | See Exhibit D |
| | Reclamation Distribution | \$120,000 | See Exhibit E |
| | Subtotal | \$1,303,000 | |
| 2010/11 | Administration Department | \$316,000 | |
| | Fire Department | \$76,000 | |
| | Maintenance Department | \$1,835,000 | |
| | CAWD | \$49,000 | |
| | Reclamation Distribution | \$55,000 | |
| | Subtotal | \$2,331,000 | |
| 2011/12 | Administration Department | \$100,000 | |
| | Fire Department | \$298,000 | |
| | Maintenance Department | \$1,240,000 | |
| | CAWD | \$62,000 | |
| | Reclamation Distribution | \$0 | |
| | Subtotal | \$1,700,000 | |
| 2012/13 | Administration Department | \$70,000 | |
| | Fire Department | \$114,000 | |
| | Maintenance Department | \$1,135,000 | |
| | CAWD | \$68,000 | |
| | Reclamation Distribution | \$90,000 | |
| | Subtotal | \$1,477,000 | |
| 2013/14 | Administration Department | \$80,000 | |
| | Fire Department | \$556,000 | |
| | Maintenance Department | \$1,130,000 | |
| | CAWD | \$38,000 | |
| | Reclamation Distribution | \$12,000 | |
| | Subtotal | \$1,816,000 | |
| 2014/15 | Administration Department | \$200,000 | |
| | Fire Department | \$147,000 | |
| | Maintenance Department | \$1,145,000 | |
| | CAWD | \$180,000 | |
| | Reclamation Distribution | \$95,000 | |
| | Subtotal | \$1,767,000 | |
| 2015/16 | Administration Department | \$174,000 | |
| | Fire Department | \$121,000 | |
| | Maintenance Department | \$858,000 | |
| | CAWD | \$180,000 | |
| | Reclamation Distribution | \$65,000 | |
| | Subtotal | \$1,398,000 | |

2009-10 LONG-TERM CAPITAL OUTLAY PROGRAM

| Fiscal Year | Capital Item | Cost | Comment |
|------------------------|---------------------------|-------------|----------------|
| 2016/17 | Administration Department | \$75,000 | See Exhibit A |
| | Fire Department | \$149,000 | See Exhibit B |
| | Maintenance Department | \$915,000 | See Exhibit C |
| | CAWD | \$180,000 | See Exhibit D |
| | Reclamation Distribution | \$95,000 | See Exhibit E |
| | Subtotal | \$1,414,000 | |
| 2017/18 | Administration Department | \$130,000 | |
| | Fire Department | \$134,000 | |
| | Maintenance Department | \$790,000 | |
| | CAWD | \$180,000 | |
| | Reclamation Distribution | \$95,000 | |
| | Subtotal | \$1,329,000 | |
| 2018/19 | Administration Department | \$75,000 | |
| | Fire Department | \$689,000 | |
| | Maintenance Department | \$725,000 | |
| | CAWD | \$180,000 | |
| | Reclamation Distribution | \$0 | |
| | Subtotal | \$1,669,000 | |
| 2019/20 | Administration Department | \$95,000 | |
| | Fire Department | \$397,000 | |
| | Maintenance Department | \$683,000 | |
| | CAWD | \$180,000 | |
| | Reclamation Distribution | \$42,000 | |
| | Subtotal | \$1,397,000 | |
| 2020/21 | Administration Department | \$239,000 | See Exhibit A |
| | Fire Department | \$486,000 | See Exhibit B |
| | Maintenance Department | \$1,120,000 | See Exhibit C |
| | CAWD | \$180,000 | See Exhibit D |
| | Reclamation Distribution | \$0 | See Exhibit E |
| | Subtotal | \$2,025,000 | |
| 2021/22 | Administration Department | \$80,000 | |
| | Fire Department | \$248,000 | |
| | Maintenance Department | \$1,042,000 | |
| | CAWD | \$180,000 | |
| | Reclamation Distribution | \$0 | |
| | Subtotal | \$1,550,000 | |
| 2022/23 | Administration Department | \$60,000 | |
| | Fire Department | \$119,000 | |
| | Maintenance Department | \$840,000 | |
| | CAWD | \$180,000 | |
| | Reclamation Distribution | \$40,000 | |
| | Subtotal | \$1,239,000 | |

2009-10 LONG-TERM CAPITAL OUTLAY PROGRAM

| Fiscal Year | Capital Item | Cost | Comment |
|--------------------|----------------------------------|----------------------------|----------------------|
| 2023/24 | Administration Department | \$100,000 | See Exhibit A |
| | Fire Department | \$136,000 | See Exhibit B |
| | Maintenance Department | \$978,000 | See Exhibit C |
| | CAWD | \$180,000 | See Exhibit D |
| | Reclamation Distribution | \$50,000 | See Exhibit E |
| | | Subtotal | \$1,444,000 |
| | <u>15-Year Total</u> | <u>\$23,859,000</u> | |

SUMMARY

| | |
|----------------------------------|-----------------------------|
| Administration Department | \$ 1,854,000 |
| Fire Department | \$ 3,715,000 |
| Maintenance Department | \$ 15,108,000 |
| CAWD | \$ 2,423,000 |
| Reclamation Distribution | \$ 759,000 |
| <u>15-Year Total</u> | <u>\$ 23,859,000</u> |

EXHIBIT A

ADMINISTRATION DEPARTMENT

EXHIBIT A

**PBCSD Administration Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life |
|--------------------------------|---|-----------------|-------------------|--------------------|
| 2009/10 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Reverse 911 Server | \$10,000 | AD09B | 4 years |
| | Replace Network Equip (Routers / Switches) | \$10,000 | AD09C | 4 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| | Subtotal | \$60,000 | | |
| 2010/11 | Building Generator | \$50,000 | AD10A | 15 years |
| | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Paint Admin. Building Exterior | \$30,000 | AD10B | 7 years |
| | Traffic Monitoring Radar Units (4) | \$25,000 | AD10C | 5 years |
| | Replace Color Copier / Printer / Scanner | \$25,000 | AD10D | 5 years |
| | Replace Network Fileservers (2) | \$20,000 | AD10E | 4 years |
| | Boardroom Sound System/Microphones | \$20,000 | AD10F | 10 years |
| | Boardroom Presentation Console | \$20,000 | AD10G | 10 years |
| | Boardroom Furniture | \$20,000 | AD10H | 10 years |
| | Window Coverings | \$15,000 | AD10I | 10 years |
| | Training Room Multimedia Projector | \$15,000 | AD10J | 5 years |
| | Boardroom Multimedia Projector | \$15,000 | AD10K | 5 years |
| | Replace Network Plotter | \$8,000 | AD10L | 5 years |
| | File Storage Space Saver | \$7,000 | AD10M | 15 years |
| | Replace Front Office Network Color Printer | \$6,000 | AD10N | 5 years |
| Miscellaneous Equipment | \$5,000 | AD09D | Annual | |
| Subtotal | \$316,000 | | | |
| 2011/12 | Replace Workstation Computers (9) | \$40,000 | AD11A | 4 years |
| | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Boardroom Audience Chairs (40) | \$15,000 | AD11B | 10 years |
| | Replace Digital Scanner | \$5,000 | AD11C | 5 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| Subtotal | \$100,000 | | | |
| 2012/13 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Network Fileservers (3) | \$30,000 | AD12A | 4 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| Subtotal | \$70,000 | | | |
| 2013/14 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Carpeting | \$20,000 | AD13A | 10 years |
| | Replace Reverse 911 Server | \$10,000 | AD09B | 4 years |
| | Replace Network Equip (Routers / Switches) | \$10,000 | AD09C | 4 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| Subtotal | \$80,000 | | | |

EXHIBIT A

**PBCSD Administration Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life |
|--------------------|---|------------------|-------------------|--------------------|
| 2014/15 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Ergonomic Furniture - Back Offices (4) | \$35,000 | AD14A | 10 years |
| | Telephone System | \$30,000 | AD14B | 10 years |
| | Ergonomic Furniture - Front Office (4) | \$25,000 | AD14C | 10 years |
| | Replace Voicemail System | \$20,000 | AD14D | 10 years |
| | Training Room Furniture | \$15,000 | AD14E | 10 years |
| | Replace Network Fileservers (2) | \$20,000 | AD10E | 4 years |
| | Replace Network Copier/Printer & Scanner | \$15,000 | AD14F | 5 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| | Subtotal | \$200,000 | | |
| 2015/16 | Replace Workstation Computers (9) | \$40,000 | AD11A | 4 years |
| | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Traffic Monitoring Radar Units (4) | \$25,000 | AD10C | 5 years |
| | Replace Color Copier / Printer / Scanner | \$25,000 | AD10D | 5 years |
| | Training Room Multimedia Projector | \$15,000 | AD10J | 5 years |
| | Boardroom Multimedia Projector | \$15,000 | AD10K | 5 years |
| | Replace Network Plotter | \$8,000 | AD10L | 5 years |
| | Replace Front Office Network Color Printer | \$6,000 | AD10N | 5 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| | Subtotal | \$174,000 | | |
| 2016/17 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Network Fileservers (3) | \$30,000 | AD12A | 4 years |
| | Replace Digital Scanner | \$5,000 | AD11C | 5 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| | Subtotal | \$75,000 | | |
| 2017/18 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Paint Admin. Building Exterior | \$30,000 | AD10B | 7 years |
| | Radio Station Equipment (2) | \$30,000 | AD17A | 10 years |
| | Furnaces (4) | \$10,000 | AD17B | 10 years |
| | Replace Reverse 911 Server | \$10,000 | AD09B | 4 years |
| | Replace Network Equip (Routers / Switches) | \$10,000 | AD09C | 4 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| | Subtotal | \$130,000 | | |
| 2018/19 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Network Fileservers (2) | \$20,000 | AD10E | 4 years |
| | Replace Board Member Chairs (10) | \$15,000 | AD18A | 10 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| | Subtotal | \$75,000 | | |

EXHIBIT A

**PBCSD Administration Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life |
|--|---|--------------------|-------------------|--------------------|
| 2019/20 | Replace Workstation Computers (9) | \$40,000 | AD11A | 4 years |
| | GIS/Information System Development | \$35,000 | AD09A | Annual |
| | Replace Network Copier/Printer & Scanner | \$15,000 | AD14F | 5 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| | Subtotal | \$95,000 | | |
| 2020/21 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Network Fileservers (3) | \$30,000 | AD12A | 4 years |
| | Traffic Monitoring Radar Units (4) | \$25,000 | AD10C | 5 years |
| | Replace Color Copier / Printer / Scanner | \$25,000 | AD10D | 5 years |
| | Boardroom Sound System/Microphones | \$20,000 | AD10F | 10 years |
| | Boardroom Presentation Console | \$20,000 | AD10G | 10 years |
| | Boardroom Furniture | \$20,000 | AD10H | 10 years |
| | Window Coverings | \$15,000 | AD10I | 10 years |
| | Training Room Multimedia Projector | \$15,000 | AD10J | 5 years |
| | Boardroom Multimedia Projector | \$15,000 | AD10K | 5 years |
| | Replace Network Plotter | \$8,000 | AD10L | 5 years |
| | Replace Front Office Network Color Printer | \$6,000 | AD10N | 5 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| Subtotal | \$239,000 | | | |
| 2021/22 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Boardroom Audience Chairs (40) | \$15,000 | AD11B | 10 years |
| | Replace Reverse 911 Server | \$10,000 | AD09B | 4 years |
| | Replace Network Equip (Routers / Switches) | \$10,000 | AD09C | 4 years |
| | Replace Digital Scanner | \$5,000 | AD11C | 5 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| Subtotal | \$80,000 | | | |
| 2022/23 | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Network Fileservers (2) | \$20,000 | AD10E | 4 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| Subtotal | \$60,000 | | | |
| 2023/24 | Replace Workstation Computers (9) | \$40,000 | AD11A | 4 years |
| | GIS/Information Systems Development | \$35,000 | AD09A | Annual |
| | Replace Carpeting | \$20,000 | AD13A | 10 years |
| | Miscellaneous Equipment | \$5,000 | AD09D | Annual |
| Subtotal | \$100,000 | | | |
| ADMINISTRATION DEPARTMENT TOTAL | | \$1,854,000 | | |

PBCSD ADMINISTRATION DEPARTMENT
Capital Project Descriptions

- AD09A** **GIS / Information Systems Development**
The District GIS (Geographic Information Systems) and information systems will be improved and updated annually to include revisions to the District infrastructure including work completed in the annual capital improvement projects.
- AD09B** **Reverse 911 Server**
The network fileserver used for the Reverse 911 notification system is planned to be upgraded every four years.
- AD09C** **Network Equipment (Switches / Routers)**
Network Equipment for the local area computer network will be replaced every four years.
- AD09D** **Miscellaneous Equipment**
It is estimated, that each year miscellaneous capital expenditures including computer software and office equipment will be replaced or purchased based on evaluation of needs.
- AD10A** **Building Generator**
The 100 KW generator that provides emergency power to the entire administration building complex will be replaced. The generator is fueled by natural gas and includes a backup propane fuel system should the natural gas service be interrupted in an emergency. The expected useful life of this equipment is 15 years.
- AD10B** **Paint Administrative Building Exterior**
The exterior of the administration building and maintenance garage will be painted every seven years.
- AD10C** **Traffic Monitoring Radar Units (4)**
Four traffic monitoring radar units will be replaced every 5 years.
- AD10D** **Network Color Copier / Printer /Scanner (Primary)**
One of the two administration office computer network color combination copier/ printer and scanner will be replaced. The equipment has an estimated useful life of five years.
- AD10E** **Replace Network Fileservers (2)**
Two computer network fileservers (Info System /Dedicated Backup Servers) that serve the administration, fire and maintenance departments are planned to be upgraded every four years.
- AD10F** **Boardroom Sound System Microphones**
The sound system and microphones in the community boardroom will be replaced every ten years.
- AD10G** **Boardroom Presentation Console**
An equipment console including a computer with connection to the district computer network will be purchased for use in boardroom presentations every ten years.

PBCSD ADMINISTRATION DEPARTMENT
Capital Project Descriptions

- AD10H** **Boardroom Furniture**
The boardroom furniture will be replaced based on a ten year useful life.
- AD10I** **Window Coverings**
The window coverings in the administration offices will be replaced every ten years.
- AD10J** **Training Room Multi-media Projector & Screen**

Audiovisual equipment will be replaced in the training room will be replaced every five years.
- AD10K** **Boardroom Multi-media Projector & Screen**
The community room multimedia projector and screen will be replaced every five years.
- AD10L** **Network Computer Map Plotter**

The plotter used for preparation of map exhibits of GIS information will be replaced every 5 years.
- AD10M** **Replace File Storage Spacesaver**
The file storage space saver used for administration department records will be replaced every fifteen years.
- AD10N** **Replace Front Office Network Color Printer**
The Color Printer (located in the Front Office) used by the administration department will be replaced based on a five year useful life.
- AD11A** **Replace Network Workstation Computers (9)**

The nine administration computer workstations will be replaced based on a four year useful life.
- AD11B** **Replace Boardroom Audience Chairs (40)**
The audience chairs in the Boardroom will be replaced based on a ten year useful life.
- AD11C** **Digital Scanner**
The digital scanner used to transfer printed material to the computer network will be replaced every five years.
- AD12A** **Replace Network Fileservers (3)**

Three computer network fileservers (Image / File & Exchange Servers) that serve the administration, fire and maintenance departments are planned to be upgraded every four years.
- AD13A** **Replace Carpeting**
The carpeting in the administration offices will be replaced every ten years.

PBCSD ADMINISTRATION DEPARTMENT
Capital Project Descriptions

- AD14A** **Ergonomic Furniture - Back Offices (4)**
Ergonomically designed furniture workstations will be replaced in the four management offices based on a ten year useful life.
- AD14B** **Telephone System**
The administration building telephone system will be replaced every ten years.
- AD14C** **Ergonomic Furniture - Front Office (4 workstations)**
Ergonomically designed furniture workstations will be replaced for the administrative staff in the open office area based on a ten year useful life.
- AD14D** **Replace Voicemail System**
The telephone voicemail system will be upgraded every ten years.
- AD14E** **Training Room Furniture**

Furniture will be provided for the new training room with an expected useful life of ten years.
- AD14F** **Network Copier / Printer & Scanner (Backup)**
One of the two administration office computer network color combination copier / printer and scanner will be replaced. The equipment has an estimated useful life of five years.
- AD17A** **Radio Station Equipment**

The District AM radio station equipment located at Forest Lake and in the Maintenance building (backup unit) will be replaced. This equipment has an estimated useful life of ten years.
- AD17B** **Furnaces (4)**
The four furnaces (Front Office / Board Room / Training Rm /Back Offices & DMFF/DMFPO) that serve the administration offices will be replaced every ten years.
- AD18A** **Replace Board Member Chairs (10)**

The board member and staff chairs in the Boardroom will be replaced based on a ten year useful life.

EXHIBIT B

FIRE DEPARTMENT

EXHIBIT B

**PBCSD Fire Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life | Comments |
|--------------------|--------------------------------------|------------------|-------------------|--------------------|------------------------|
| 2009/10 | Replace Carpeting | \$20,000 | FD09A | 5 years | 37.5% PBCSD Share |
| | 4WD Command Vehicle 4601 | \$15,000 | FD09B | 7 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Subtotal | \$45,000 | | | |
| 2010/11 | Fire Prevention Vehicle 4626 | \$40,000 | FD10A | 7 years | |
| | Paint Building Exterior | \$20,000 | FD10B | 7 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | AED Defibrillators (2) | \$6,000 | FD10C | 5 years | |
| | Subtotal | \$76,000 | | | |
| 2011/12 | Wildland Fire Engine 6651 | \$150,000 | FD11A | 10 years | 37.5% PBCSD Share |
| | Engine SCBA Units (10) | \$40,000 | FD11B | 5 years | |
| | Station Workstation Computers (7) | \$25,000 | FD11C | 4 years | |
| | Command SCBA Units (5) | \$24,000 | FD11D | 5 years | |
| | Battalion Trg Officer Vehicle 4607 | \$15,000 | FD11E | 7 years | |
| | Physical Fitness Equipment | \$15,000 | FD11F | 5 years | |
| | Command Workstation Computers (4) | \$10,000 | FD11G | 4 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Training Thermal Imager Camera | \$6,000 | FD11H | 5 years | |
| | Radio Repeater Equipment | \$3,000 | FD11I | 10 years | |
| | Subtotal | \$298,000 | | | |
| 2012/13 | Paramedic EKG Monitors | \$47,000 | FD12A | 5 years | 50% PBCSD Share |
| | Fire Prevention Vehicle 4624 | \$40,000 | FD12B | 7 years | |
| | Network Printer / Copier | \$12,000 | FD12C | 5 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Carmel Hill Physical Fitness Equip | \$5,000 | FD12D | 5 years | |
| | Subtotal | \$114,000 | | | |
| 2013/14 | Replace Engine 6621 | \$450,000 | FD13A | 20 years | 37.5% PBCSD Share |
| | Thermal Imaging Cameras (2.5) | \$35,000 | FD13B | 5 years | |
| | 4WD Command Vehicle 4605 | \$20,000 | FD13C | 7 years | |
| | Central Heating Unit | \$15,000 | FD13D | 10 years | |
| | SCBA's for Rescue Operations (2.5) | \$11,000 | FD13E | 5 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Battalion Training Program Equipment | \$8,000 | FD13F | 5 years | |
| | Airbag Kit (1.5) | \$7,000 | FD13G | 5 years | |
| | Subtotal | \$556,000 | | | |
| 2014/15 | Mobile Data Computers | \$47,000 | FD14A | 5 years | Prev Chief (50% Share) |
| | Battalion WAN & FireHouse Software | \$45,000 | FD14B | 5 years | |
| | Fire Prevention Office Furniture | \$20,000 | FD14C | 10 years | |
| | Replace Carpeting | \$20,000 | FD09A | 5 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Replace Base Radio | \$5,000 | FD14D | 10 years | |
| | Subtotal | \$147,000 | | | |

EXHIBIT B

**PBCSD Fire Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life | Comments |
|--------------------------------|--------------------------------------|------------------|-------------------|--------------------|--|
| 2015/16 | 4WD Command Vehicles 4612 and 4618 | \$30,000 | FD15A | 7 years | Operations Chiefs (2) 37.5% 37.5% PBCSD Share |
| | Hydraulic Rescue Tools (2.5) | \$25,000 | FD15B | 10 years | |
| | Station Workstation Computers (7) | \$25,000 | FD11C | 4 years | |
| | Paramedic Vehicle 4652 | \$15,000 | FD15C | 7 years | |
| | Command Workstation Computers (4) | \$10,000 | FD11G | 4 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | AED Defibrillators (2) | \$6,000 | FD10C | 5 years | |
| | Subtotal | \$121,000 | | | |
| 2016/17 | Engine SCBA Units (10) | \$40,000 | FD11B | 5 years | 50% PBCSD Share 37.5% PBCSD Share 50% PBCSD Share 37.5% PBCSD Share |
| | Command SCBA Units (5) | \$24,000 | FD11D | 5 years | |
| | Carmel Hill Utility Truck 7292 | \$20,000 | FD16A | 10 years | |
| | 4WD Command Vehicle 4601 | \$15,000 | FD09B | 7 years | |
| | Physical Fitness Equipment | \$15,000 | FD11F | 5 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Window Coverings | \$10,000 | FD16B | 10 years | |
| | Carmel Hill Station Air Compressor | \$9,000 | FD16C | 10 years | |
| Training Thermal Imager Camera | \$6,000 | FD11H | 5 years | | |
| | Subtotal | \$149,000 | | | |
| 2017/18 | Paramedic EKG Monitors | \$47,000 | FD12A | 5 years | 50% PBCSD Share |
| | Fire Prevention Vehicle 4626 | \$40,000 | FD10A | 7 years | |
| | Paint Building Exterior | \$20,000 | FD10B | 7 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Network Printer / Copier | \$12,000 | FD12C | 5 years | |
| | Carmel Hill Physical Fitness Equip | \$5,000 | FD12D | 5 years | |
| | Subtotal | \$134,000 | | | |
| 2018/19 | Ladder Truck 6671 | \$600,000 | FD18A | 15 years | 37.5% PBCSD Share 37.5% PBCSD Share |
| | Thermal Imaging Cameras (2.5) | \$35,000 | FD13B | 5 years | |
| | Battalion Trg Officer Vehicle 4607 | \$15,000 | FD11E | 7 years | |
| | SCBA's for Rescue Operations (2.5) | \$11,000 | FD13E | 5 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Battalion Training Program Equipment | \$8,000 | FD13F | 5 years | |
| | Airbag Kit (1.5) | \$7,000 | FD13G | 5 years | |
| Rope Rescue Line Gun | \$3,000 | FD18B | 10 years | | |
| | Subtotal | \$689,000 | | | |
| 2019/20 | Carmel Hill Medic Engine 7212 | \$200,000 | FD19A | 15 years | 50% PBCSD Share |
| | Mobile Data Computers | \$47,000 | FD14A | 5 years | |
| | Battalion WAN & FireHouse Software | \$45,000 | FD14B | 5 years | |
| | Fire Prevention Vehicle 4624 | \$40,000 | FD12B | 7 years | |
| | Station Workstation Computers (7) | \$25,000 | FD11C | 4 years | |
| | Replace Carpeting | \$20,000 | FD09A | 5 years | |
| | Command Workstation Computers (4) | \$10,000 | FD11G | 4 years | |
| Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | | |
| | Subtotal | \$397,000 | | | |

EXHIBIT B

**PBCSD Fire Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life | Comments |
|------------------------------|--------------------------------------|---------------------------|-------------------|--------------------|--|
| 2020/21 | Replace Medic Engine 6611 | \$450,000 | FD20A | 20 years | Prev Chief (50% Share) |
| | 4WD Command Vehicle 4605 | \$20,000 | FD13C | 7 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | AED Defibrillators (2) | \$6,000 | FD10C | 5 years | |
| | Subtotal | \$486,000 | | | |
| 2021/22 | Wildland Fire Engine 6651 | \$150,000 | FD11A | 10 years | 37.5% PBCSD Share |
| | Engine SCBA Units (10) | \$40,000 | FD11B | 5 years | |
| | Command SCBA Units (5) | \$24,000 | FD11D | 5 years | |
| | Physical Fitness Equipment | \$15,000 | FD11F | 5 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Training Thermal Imager Camera | \$6,000 | FD11H | 5 years | |
| | Radio Repeater Equipment | \$3,000 | FD11I | 10 years | |
| | Subtotal | \$248,000 | | | |
| 2022/23 | Paramedic EKG Monitors | \$47,000 | FD12A | 5 years | Operations Chiefs (2) 37.5% 37.5% PBCSD Share |
| | 4WD Command Vehicles 4612 and 4618 | \$30,000 | FD15A | 7 years | |
| | Paramedic Vehicle 4652 | \$15,000 | FD15C | 7 years | |
| | Network Printer / Copier | \$12,000 | FD12C | 5 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | Carmel Hill Physical Fitness Equip | \$5,000 | FD12D | 5 years | |
| | Subtotal | \$119,000 | | | |
| 2023/24 | Thermal Imaging Cameras (2.5) | \$35,000 | FD13B | 5 years | 37.5% PBCSD Share |
| | Station Workstation Computers (7) | \$25,000 | FD11C | 4 years | |
| | 4WD Command Vehicle 4601 | \$15,000 | FD09B | 7 years | |
| | Central Heating Unit | \$15,000 | FD13D | 10 years | |
| | Command Workstation Computers (4) | \$10,000 | FD11G | 4 years | |
| | Carmel Hill Station Equipment | \$10,000 | FD09C | Annual | |
| | SCBA's for Rescue Operations (2.5) | \$11,000 | FD13E | 5 years | |
| | Battalion Training Program Equipment | \$8,000 | FD13F | 5 years | |
| | Airbag Kit (1.5) | \$7,000 | FD13G | 5 years | |
| | Subtotal | \$136,000 | | | |
| FIRE DEPARTMENT TOTAL | | <u>\$3,715,000</u> | | | |

PBCSD FIRE DEPARTMENT
Capital Project Descriptions

FD09A Replace Carpeting

Replace carpeting in fire station every five years.

FD09B 4WD Command Vehicle 4601

Replace four-wheel drive utility vehicle 4601 used by the fire division chief including lights, radio console and command box. This vehicle has an expected useful life of seven years. The cost reported for this vehicle represents PBCSD's 37.5% share.

FD09C Carmel Hill Station Equipment

The Carmel Hill Fire Station is operated jointly with Cal Fire and the Cypress Fire Protection District. An annual allocation of \$10,000 per year is included for the District's share of replacing capital equipment.

FD10A Fire Prevention Vehicle 4626

Replace utility pickup truck 4626 used by the fire prevention captain including lights, radio console and command box. This vehicle has an expected useful life of seven years.

FD10B Paint Building Exterior

Paint the exterior of the fire department building every seven years.

FD10C AED Defibrillators (2)

Replace two semi-automatic defibrillators used on first response emergency calls. The defibrillators have an expected useful life of five years.

FD11A Wildland Fire Engine 6651

Replace the Type IV wildland engine 6651. This vehicle is used for patrolling open space areas daily during peak fire conditions and for initial response to incidents in open spaces. It includes a 300-gallon water storage tank and 125 gpm pump. The estimated useful life of this vehicle is ten years.

FD11B Engine SCBA Units (10)

Replace ten self-contained breathing apparatuses (SCBA) carried on the engine and ladder truck, which have an expected useful life of five years. These units include an air bottle rated for 30 minutes of use, a full-face air mask and related valves and hoses.

FD11C Station Workstation Computers (7)

Replace the seven computer workstations used by the operations and prevention staff every four years. Each workstation will include a computer, monitor, keyboard and printer.

FD11D Command SCBA Units (5)

Replace the five self-contained breathing apparatuses (SCBA) used on command vehicles. These units include an air bottle rated for 30 minutes of use, a full-face air mask and related valves and hoses. SCBA units have an expected useful life of five years.

FD11E Battalion Trg Officer Vehicle 4607

Replace utility pickup truck used by training officer, which has an expected useful life of seven years. The cost reported for this vehicle represents PBCSD's 37.5% share.

PBCSD FIRE DEPARTMENT
Capital Project Descriptions

FD11F Physical Fitness Equipment

Replace treadmill, stationary bike and elliptical exercise machines in physical fitness training room. The equipment has an expected useful life of five years.

FD11G Command Workstation Computers (4)

Replace four computer workstations used by cost shared fire command positions every four years. Each workstation will include a computer, monitor, keyboard and printer.

FD11H Training Thermal Imager Camera

This equipment provides visibility through thick smoke and darkness. The camera can detect dangerous, unseen obstacles and assist in rescue operations. This equipment will be purchase for training use and has an expected useful life of five years. The District will be responsible for one-half of the equipment's operating cost.

FD11I Radio Repeater Equipment

Replace radio repeater equipment based on an expected useful life of 10 years.

FD12A Paramedic EKG Monitors

A 12 lead monitor is used by paramedics to monitor heart rhythms and has an expected useful life of 5 years. One will be carried on Medic Engine 6611, One monitor will be carried on Carmel Hill Medic Engine 7212 (50% Cost Share); One will be carried on EMS Capt Vehicle 4652 (37.5% share).

FD12B Fire Prevention Vehicle 4624

Replace utility pickup truck 4624 used by the fire prevention captain including lights, radio console and command box. This vehicle has an expected useful life of seven years.

FD12C Network Printer / Copier

Replace the fire department network printer, scanner and copier. It has an expected useful life of five years.

FD12D Carmel Hill Physical Fitness Equip

Replace physical fitness exercise equipment for the Carmel Hill fire station with an expected useful life of 5 years. This equipment is a 50% cost share with Cypress District.

FD13A Replace Engine 6621

A new commercial engine with a pumping capacity of 1500-gpm will be purchased and identified as Engine 6611. The existing 2000 E-One Engine will be reassigned as reserve Engine 6621 and the existing 1993 E-One reserve engine will become surplus equipment. The expected useful life of the new engine is 20 years including up to 15 years as a first line engine.

FD13B Thermal Imaging Cameras (2.5)

This equipment provides visibility in thick smoke and darkness. The camera can detect dangerous, unseen obstacles and assist in rescue operations. These cameras are carried on the PBCSD medic engine, PBCSD ladder truck and Carmel Hill Medic Engine (50% Cost Share). This equipment has an expected useful life of five years.

PBCSD FIRE DEPARTMENT
Capital Project Descriptions

FD13C 4WD Command Vehicle 4605

Replace four-wheel drive utility vehicle 4605 used by the fire prevention chief including lights, radio console and command box. This vehicle has an expected useful life of seven years. The cost reported represents PBCSD's 50% cost share.

FD13D Central Heating Unit

Replace the central heating unit serving the fire department space. This equipment has an expected useful life of ten years.

FD13E SCBA's for Rescue Operations (2.5)

The sling style high capacity Self Contained Breathing Apparatus (SCBA) are specifically designed for firefighter rescue operations. These will be carried on the PBCSD Medic Engine, PBCSD ladder truck and Carmel Hill Medic Engine (50% Cost Share).

FD13F Battalion Training Program Equipment

Replace the Capital Equipment (SCBA Fit tester / Forcible Entry Prop / Fire Extinguisher Simulator) used in the Battalion Training Program based on a five year useful life. Cost reported represents PBCSD's 37.5% share.

FD13G Airbag Kit (1.5)

An airbag kit contains items required to lift heavy objects during rescue operations and has an expected useful life of 5 years. One kit is a 50% cost share with Cypress District.

FD14A Mobile Data Computers

Laptop Computers will be purchased and installed in each PBCSD owned and cost shared apparatus and command vehicle. The estimated useful life is 5 years. The total scheduled replacement costs are based on the District's 100% ownership of 4 fire apparatus and 2 command vehicles, the District's 50% cost share of 2 fire apparatus and 1 command vehicle; and the 37.5% share of 5 command vehicles.

FD14B Battalion WAN & FireHouse Software

A Wide Area Network (WAN) is planned to be installed for the Battalion II Division (consisting of Pebble Beach Fire, Cypress Fire & Carmel Highlands Fire Protection Districts). The facilities will be connected via a series of T-1 data lines to a centralized server located offsite with emergency data back up and power supply. This shared network will serve as the backbone to integrate the fire report, inventories, certifications and data storage. With this WAN in place, CAL FIRE will be able to automatically transfer dispatch information to station printers.

FD14C Fire Prevention Office Furniture

Ergonomically designed furniture, workstations and equipment will be included for the fire prevention staff.

FD14D Replace Base Radio

Replace base radio station located at fire department operations offices.

PBCSD FIRE DEPARTMENT
Capital Project Descriptions

FD15A 4WD Command Vehicles 4612 and 4618

Replace four-wheel drive utility vehicles 4612 & 4618 used by the two battalion operations chiefs including lights, radio console and command box. These vehicles are cost shared with Cypress & Carmel Highlands Fire Protection Districts and have an expected useful life of seven years.

FD15B Hydraulic Rescue Tools (2.5)

Replace hydraulic rescue tool (“jaws of life”) used to provide access from damaged vehicles. Three will be purchased, and carried on PBCSD Medic Engine 6611 and T-6671 and Carmel Hill Medic Engine 7212 (50% Cost Share).

FD15C Paramedic Vehicle 4652

Replace pickup truck used by the EMS Captain including lights, radio console and command box. This vehicle is cost shared with Cypress & Carmel Highlands Fire Protection Districts and has an expected useful life of seven years.

FD16A Carmel Hill Utility Truck 7292

A utility pickup truck with ladder rack will be purchased for use at the Carmel Hill station. The District is responsible for one-half of the purchase cost.

FD16B Window Coverings

Replace the window coverings in the fire department, which have an expected useful life of ten years.

FD16C Carmel Hill Station Air Compressor

Replace the air compressor for the Carmel Hill Fire Station which allows air bottles to be filled at the station location. This unit has an expected useful life of ten years. The District is responsible for one half the cost.

FD18A Ladder Truck 6671

Replace the existing Quint engine 6671 which includes a 70-foot ladder and a 1500 gpm (gallons per minute) pump and serves the dual purpose of engine and ladder truck with a useful life of 15 years. Quint refers to the five components of the vehicle including pump, water tank, fire hose, aerial device and ground ladders.

FD18B Rope Rescue Line Gun

Replace the equipment used to shoot rope rescue line for use in coastal rescue operations.

FD19A Carmel Hill Medic Engine 7212

Replace the commercial engine with a pumping capacity of 1500 gpm used as a medic engine at the Carmel Hill Fire Station. Cost represents PBCSD's 50% cost share.

FD20A Replace Medic Engine 6611

A new commercial engine with a pumping capacity of 1500 gpm will be purchased and identified as Medic Engine 6611. The Engine purchased in 2013 will be reassigned as reserve Engine 6621 and the existing 2000 E-One reserve engine will become surplus equipment. The expected useful life of the new engine is 20 years including up to 15 years as a first line engine.

EXHIBIT C

MAINTENANCE DEPARTMENT

EXHIBIT C

**PBCSD Maintenance Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life |
|----------------------------------|---|---------------------|-------------------|--------------------|
| 2009/10 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Automatic Transfer Switch P1 / P3 & P6 | \$ 27,000 | MD09B | 15 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Safety - Confined Space Equipment | \$ 10,000 | MD09D | 3 years |
| | AutoCAD Software & License | \$ 10,000 | MD09E | One-time |
| | Subtotal | \$ 672,000 | | |
| 2010/11 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Rebuild Pump Station P-7 | \$ 500,000 | MD10A | 10 years |
| | P-7 Force Main | \$ 300,000 | MD10B | 30 years |
| | PB-2 Line Cleaning Truck | \$ 300,000 | MD10C | 10 years |
| | SCADA System Servers/Software (3) | \$ 40,000 | MD10D | 4 years |
| | Rebuild P-3 Solids Grinders (2) | \$ 25,000 | MD10E | 3 years |
| | P-7 Flow Meter | \$ 25,000 | MD10F | 10 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| CCTV Camera / Transporter | \$ 20,000 | MD10G | 10 years | |
| | Subtotal | \$ 1,835,000 | | |
| 2011/12 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Rebuild Pump Station P-6 | \$ 250,000 | MD11A | 10 years |
| | Rebuild Pump Station P-1 | \$ 250,000 | MD11B | 10 years |
| | Replace P-3 150 HP Pumps (2) | \$ 107,000 | MD11C | 10 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Work Station Computers (2) | \$ 8,000 | MD11D | 4 years |
| | Subtotal | \$ 1,240,000 | | |
| 2012/13 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Rebuild Pump Station P-4 | \$ 250,000 | MD12A | 10 years |
| | Rebuild Pump Station P-2 | \$ 250,000 | MD12B | 10 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Safety - Confined Space Equipment | \$ 10,000 | MD09D | 3 years |
| | Subtotal | \$ 1,135,000 | | |
| 2013/14 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Pump Station P3 Rehabilitation | \$ 225,000 | MD13A | 10 years |
| | 60 KW Quiet Portable Generators (2) | \$ 120,000 | MD13B | 10 years |
| | P-3 Diesel Tank System | \$ 75,000 | MD13C | 15 years |
| | P-5 Diesel Tank System | \$ 50,000 | MD13D | 15 years |
| | Rebuild P-3 Solids Grinders (2) | \$ 25,000 | MD10E | 3 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Portable Lighting Tower | \$ 10,000 | MD13E | 15 years |
| | Subtotal | \$ 1,130,000 | | |

EXHIBIT C

**PBCSD Maintenance Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life |
|--------------------|--|---------------------|-------------------|--------------------|
| 2014/15 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Rehabilitate P-5 Generator | \$ 130,000 | MD14A | 20 years |
| | 60 KW Quiet Portable Generators (2) | \$ 120,000 | MD13B | 10 years |
| | Portable Sewage Pump (3000gpm) | \$ 100,000 | MD14B | 15 years |
| | Expand P-5 Wet Well | \$ 60,000 | MD14C | 20 years |
| | PB-5 Utility Truck | \$ 45,000 | MD14D | 10 years |
| | SCADA System Servers/Software (3) | \$ 40,000 | MD10D | 4 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Trench Shoring | \$ 10,000 | MD14E | 15 years |
| | Cable Rodder | \$ 5,000 | MD14F | 15 years |
| | Concrete Mixer | \$ 4,000 | MD14G | 15 years |
| | Pipe Threading Machine | \$ 3,000 | MD14H | 15 years |
| | Bearing Press | \$ 3,000 | MD14I | 15 years |
| | Subtotal | \$ 1,145,000 | | |
| 2015/16 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Replace P-5 Pumps (4) 25 HP | \$ 120,000 | MD15A | 10 years |
| | PB-6 Dump Truck | \$ 50,000 | MD15B | 15 years |
| | PB-4 Utility Truck | \$ 45,000 | MD15C | 10 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Safety - Confined Space Equipment | \$ 10,000 | MD09D | 3 years |
| | Work Station Computers (2) | \$ 8,000 | MD11D | 4 years |
| | Subtotal | \$ 858,000 | | |
| 2016/17 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | PB-7 Crane/Flatbed Truck | \$ 100,000 | MD16A | 20 years |
| | Backhoe Loader | \$ 80,000 | MD16B | 15 years |
| | P-3 Rehabilitate Generator | \$ 60,000 | MD16C | 15 years |
| | Easement Line Cleaning Machine | \$ 25,000 | MD16D | 20 years |
| | Rebuild P-3 Solids Grinders (2) | \$ 25,000 | MD10E | 3 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Subtotal | \$ 915,000 | | |
| 2017/18 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Pump Station P-8 Rehabilitation | \$ 100,000 | MD17A | 10 years |
| | PB-1 Utility Truck | \$ 45,000 | MD17B | 10 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Overhead Door Electric Motors (10) | \$ 20,000 | MD17C | 10 years |
| | Subtotal | \$ 790,000 | | |
| 2018/19 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | P-3 Flow Meter | \$ 50,000 | MD18A | 10 years |
| | SCADA System Servers/Software (3) | \$ 40,000 | MD10D | 4 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Safety - Confined Space Equipment | \$ 10,000 | MD09D | 3 years |
| | Subtotal | \$ 725,000 | | |

EXHIBIT C

**PBCSD Maintenance Department
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life |
|-------------------------------------|-------------------------------------|----------------------|-------------------|--------------------|
| 2019/20 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Fueling Station Rehabilitation | \$ 25,000 | MD19A | 10 years |
| | Rebuild P-3 Solids Grinders (2) | \$ 25,000 | MD10E | 3 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Work Station Computers (2) | \$ 8,000 | MD11D | 4 years |
| | Subtotal | | \$ 683,000 | |
| 2020/21 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | PB-2 Line Cleaning Truck | \$ 300,000 | MD10C | 10 years |
| | Pump Station P-7 Rehabilitation | \$ 150,000 | MD10A | 10 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | P-7 Flow Meter | \$ 25,000 | MD10F | 10 years |
| | CCTV Camera / Transporter | \$ 20,000 | MD10G | 10 years |
| Subtotal | | \$ 1,120,000 | | |
| 2021/22 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | PB-3 Televising Vehicle | \$ 135,000 | MD21A | 15 years |
| | P-3 150 HP Pumps (2) | \$ 107,000 | MD11C | 10 years |
| | Pump Station P-6 Rehabilitation | \$ 75,000 | MD11A | 10 years |
| | Pump Station P-1 Rehabilitation | \$ 75,000 | MD11B | 10 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Fire Alarm System Replacement | \$ 15,000 | MD21B | 20 years |
| | Safety - Confined Space Equipment | \$ 10,000 | MD09D | 3 years |
| Subtotal | | \$ 1,042,000 | | |
| 2022/23 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Pump Station P-4 Rehabilitation | \$ 75,000 | MD12A | 10 years |
| | Pump Station P-2 Rehabilitation | \$ 75,000 | MD12B | 10 years |
| | SCADA System Servers/Software (3) | \$ 40,000 | MD10D | 4 years |
| | Rebuild P-3 Solids Grinders (2) | \$ 25,000 | MD10E | 3 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| Subtotal | | \$ 840,000 | | |
| 2023/24 | Sewer & Manhole Replacement | \$ 600,000 | MD09A | Annual |
| | Pump Station P3 Rehabilitation | \$ 225,000 | MD13A | 10 years |
| | 60 KW Quiet Portable Generators (2) | \$ 120,000 | MD13B | 10 years |
| | Maintenance Equipment | \$ 25,000 | MD09C | Annual |
| | Work Station Computers (2) | \$ 8,000 | MD11D | 4 years |
| Subtotal | | \$ 978,000 | | |
| MAINTENANCE DEPARTMENT TOTAL | | \$ 15,108,000 | | |

PBCSD MAINTENANCE DEPARTMENT
Capital Project Descriptions

MD09A Sewer & Manhole Replacement

The maintenance department inspects manholes and televises wastewater lines to identify problem areas. Each year the wastewater lines and manholes that require replacement or rehabilitation are identified and prioritized by condition. The annual sewer replacement project is designed to address the highest priority areas until the annual budget limit is reached. The allocation for 2009/2010 and each year thereafter is \$600,000, which would allow the replacement of approximately one mile of sewer main lines in the wastewater collection system.

MD09B Replace Automatic Transfer Switches (ATS) at Pump Stations P1, P3 & P6

Replace corroded Automatic Transfer Switches in the electrical vault, which transfers the power supply for the pump station from the electrical utility to the emergency diesel generator during electrical outages.

MD09C Miscellaneous Maintenance Equipment

Each year the maintenance crew supervisor identifies capital equipment (items greater than \$2,000) needs for the maintenance department. A budget amount of \$25,000 has been included for each year.

MD09D Replace Safety - Confined Space Equipment

This equipment includes tripod, winch, rescue lines, portable ventilation units and rescue baskets used for permit required confined space entry and rescue operations. This item is budgeted every three years.

MD09E New AutoCAD Software / License

AutoCAD Software will give staff in-house design and mapping capabilities and will enable the engineering staff to create drawings for District sewer projects. This is a one-time cost to purchase the software and user license. Annual upgrades and maintenance subscription costs are expected to be about \$1,500 per year.

MD10A Rebuild P-7 Pump Station

This project will convert the existing station to a submersible pump station, and increase pumping and storage capacity. Construction will include replacing existing dry and wet wells with a single wet well and valve vault; two submersible pumps; guide rail assembly; piping and valves; mixer; bypass pumping piping assembly; and associated electrical and instrumentation. This project will also include replacing the 550 gallon underground diesel fuel tank. The one-time cost associated with this rebuild is estimated to be \$350,000. Periodic station rehabilitation will include replacement of or upgrades to the fixed equipment and internal system components. The estimated cost of this rehabilitation is estimated to be \$150,000 and will be scheduled every ten years.

MD10B New P-7 Force Main

The existing 8-inch force main pipeline from pump station P-7 extends 2,000 feet up to 17-Mile Drive and Palmero Way. This project will install a new parallel force main which will provide redundancy.

MD10C Replace PB-2 Line Cleaning Truck

This truck is used to clean wastewater lines and remove debris from the collection system using a water jetting system. It contains a water storage tank, a water pump, vacuum fan, debris storage tank and 800 feet of hose. It has an expected useful life of ten years.

PBCSD MAINTENANCE DEPARTMENT
Capital Project Descriptions

MD10D Replace SCADA System Servers/Software (3)

This project would replace three servers for the Supervisory Control and Data Acquisition (SCADA) system that allows the wastewater pump stations to be continuously monitored and controlled remotely at the District office.

MD10E Rebuild P-3 Solids Grinders (2)

The teeth of the solids grinders at pump station P-3 degrade over time and reduce the efficiency of the units. There are four solids grinder units at P-3 and two are scheduled for rebuilding every three years.

MD10F Replace P-7 Flow Meter

Replace the magnetic flow meter at pump station P-7.

MD10G New CCTV Camera / Transporter

Purchase a new shorter, remote controlled, track CCTV Camera for televising sewer lines. The shorter length allows for more maneuverability through bends and curves in the sewer line.

MD11A Rebuild P-6 Pump Station

This project will convert the existing station to a submersible pump station. Construction will include replacing existing dry and wet wells with a single wet well and valve vault; two submersible pumps; guide rail assembly; piping and valves; mixer; bypass pumping piping assembly; and associated electrical and instrumentation. The one-time cost associated with this rebuild is estimated to be \$175,000. Periodic station rehabilitation will include replacement of or upgrades to the fixed equipment and internal system components. The estimated cost of this rehabilitation is estimated to be \$75,000 and will be scheduled every ten years.

MD11B Rebuild P-1 Pump Station

This project will convert the existing station to a submersible pump station. Construction will include replacing existing dry and wet wells with a single wet well and valve vault; two submersible pumps; guide rail assembly; piping and valves; mixer; bypass pumping piping assembly; and associated electrical and instrumentation. The one-time cost associated with this rebuild is estimated to be \$175,000. Periodic station rehabilitation will include replacement of or upgrades to the fixed equipment and internal system components. The estimated cost of this rehabilitation is estimated to be \$75,000 and will be scheduled every ten years.

MD11C Replace P-3 150 HP Pumps (2)

Two 150 horsepower pumps and motors at pump station P-3 will be replaced every ten years.

MD11D Replace Computer Workstations (2)

Two maintenance computer workstations and two black and white laser printers will be replaced based on a four year useful life.

MD12A Rebuild P-4 Pump Station

This project will convert the existing station to a submersible pump station. Construction will include replacing existing dry and wet wells with a single wet well and valve vault; two submersible pumps; guide rail assembly; piping and valves; mixer; bypass pumping piping assembly; and associated electrical and instrumentation. The one-time cost associated with this rebuild is estimated to be \$175,000. Periodic station rehabilitation will include replacement of or upgrades to the fixed equipment and internal system components. The estimated cost of this rehabilitation is estimated to be \$75,000 and will be scheduled every ten years.

PBCSD MAINTENANCE DEPARTMENT
Capital Project Descriptions

MD12B Rebuild P-2 Pump Station

This project will convert the existing station to a submersible pump station. Construction will include replacing existing dry and wet wells with a single wet well and valve vault; two submersible pumps; guide rail assembly; piping and valves; mixer; bypass pumping piping assembly; and associated electrical and instrumentation. The one-time cost associated with this rebuild is estimated to be \$175,000. Periodic station rehabilitation will include replacement of or upgrades to the fixed equipment and internal system components. The estimated cost of this rehabilitation is estimated to be \$75,000 and will be scheduled every ten years.

MD13A Pump Station P3 Rehabilitation

Periodic station rehabilitation of fixed equipment and internal system components within Pump Station P3 will be scheduled every 10 years and include: 1) Replacement of the four 75-horsepower pumps and motors (Estimated cost \$80,000). 2) Replacement of the motor starters for the six pump motors (Estimated cost \$60,000). 3) Replacement of the surge tank system (Estimated cost \$30,000). 4) Replacement of the six sump pumps (Estimated cost \$30,000). 5) Replacement of the ventilation fans (Estimated cost \$25,000).

MD13B Replace 60 KW Quiet Portable Generators (2)

Two of the District's four 60KW generators mounted on trailers with noise reduction enclosures will be replaced in 2013 and two will be replaced in 2014. These portable generators serve pump stations P-1,2,4 and 6 during power outages.

MD13C Replace P-3 Diesel Tank System

A new 2000-gallon underground fuel storage tank will replace the existing 1,000-gallon tank to provide additional diesel storage capacity and allow a longer emergency run time for the 400 KW stand-alone power generator at pump station P-3 (17-Mile Drive and Spyglass Hill Road).

MD13D Replace P-5 Diesel Tank System

The diesel underground fuel tank for the stand-alone generator at pump station P-5 will be replaced.

MD13E Replace Portable Lighting Tower

The portable lighting tower used for emergency night time repairs will be replaced.

MD14A Replace P-5 Generator

The stand-alone 60KW generator at pump station P-5 (Easement below Sunset Lane) will be replaced.

MD14B Replace Portable Sewage Pump (3000gpm)

This 3000-gpm sewage pump mounted on a portable trailer allows the maintenance crew to bypass problem areas that require repair. The 12-inch diameter pump is sized to handle the expected wet weather flow for the 27-inch diameter interceptor line and to bypass pump station P3. It has an expected useful life of fifteen years.

MD14C Expand P-5 Wet Well

The pump station P-5 wet well will be expanded to increase the wastewater storage capacity and allow the pumps to operate for a longer periods and reduce the amount of pump cycling.

**PBCSD MAINTENANCE DEPARTMENT
Capital Project Descriptions**

MD14D Replace PB-5 Utility Truck

The heavy duty PB-5 utility truck will be replaced. This is the one ton four wheel drive pickup truck used primarily by the field operations manager.

MD14E Replace Trench Shoring

This portable shoring equipment allows the maintenance crew to perform trenching work in poor soil conditions.

MD14F Replace Cable Rodder

The cable rodder with spare drum and cable will be used for cutting roots in smaller wastewater lines that cannot be reached with larger equipment.

MD14G Replace Concrete Mixer

This equipment allows the maintenance crew to mix concrete for use to repair manholes and other small repair projects requiring concrete.

MD14H Replace Pipe Threading Machine

The pipe-threading machine with stand and cutters is used for threading pipe required in pump station applications.

MD14I Replace Bearing Press

The bearing press is used for motor and pump bearing replacement. This equipment allows the maintenance crew to perform more repairs in-house.

MD15A Pump Station P-5 Rehabilitation

Periodic station rehabilitation of fixed equipment and internal system components within Pump Station P5 will be scheduled every 10 years and include: 1) Replacement of the four 25-horsepower pumps and motors (Estimated cost \$50,000). 2) Replacement of the motor starters for the four pump motors (Estimated cost \$50,000). 3) Replacement of the surge tank system (Estimated cost \$10,000). 4) Replacement of the flow meter (Estimated cost \$10,000).

MD15B Replace PB-6 Dump Truck

This vehicle transports bulk material and allows the crew to perform more field construction work.

MD15C Replace PB-4 Utility Truck

This is a one-ton utility truck used primarily for pump station maintenance. The truck has an expected useful life of ten years.

MD16A Replace PB-7 Crane/Flatbed Truck

Replace flatbed truck and crane with a lifting capacity of 10,000 lbs.

MD16B Replace Backhoe Loader

This piece of equipment allows the maintenance crew to perform more field construction work and can be modified to act as a forklift.

MD16C Replace P-3 Generator

The stand-alone 400KW generator at pump station P-3 (Seal Rock) will be replaced.

PBCSD MAINTENANCE DEPARTMENT
Capital Project Descriptions

MD16D Replace Easement Line Cleaning Machine

This equipment extends the range of the line cleaning truck so that sewer lines located in areas with no vehicle accessibility can be reached without manually pulling hose.

MD17A Pump Station P8 Rehabilitation

Pump station P-8 is located adjacent to the Inn at Spanish Bay (2700 17-Mile Drive). The pump impellers will be replaced, the pump motors will be rebuilt, the sump pump will be replaced and the ventilation fans will be replaced.

MD17B Replace PB-1 Utility Truck

The PB-1 utility truck will be replaced. This vehicle is a half-ton four-wheel drive pickup truck with an estimated useful life of ten years.

MD17C Replace Overhead Door Electric Motors (10)

Electric motors will be installed on ten metal overhead doors on various garage and storage bays within the District facilities.

MD18A Replace P-3 Flow Meter

The magnetic flow meter and related piping at pump station P-3 will be replaced.

MD19A Fueling Station Rehabilitation

The fuel pump and monitoring and security system for the diesel and gasoline fueling station will be rehabilitated.

MD21A Replace PB-3 Televising Vehicle

The televising truck will be replaced including a self-propelled camera and computer equipment that will allow televised data to be stored in District fileserver.

MD21B Fire Alarm System Replacement

The fire alarm system for the District Offices will be replaced.

EXHIBIT D

DISTRICT SHARE OF

CAWD TREATMENT PLANT

EXHIBIT D

**PBCSD Share of Carmel Area Wastewater District
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Comments |
|---|--|---------------------------|-------------------|-----------------|
| 2009/10 | Digester No. 1 Mixing System | \$333,000 | CD09A | |
| | Belt Press Filtrate Piping | \$17,000 | CD09B | |
| | Sodium Bisulfite Storage Tank | \$14,000 | CD09C | |
| | Secondary Clarifier Magnetic Flow Meter | \$15,000 | CD09D | |
| | WAS Meter/Valve Replacement | \$12,000 | CD09E | |
| | Miscellaneous Capital Items | \$10,000 | CD09F | |
| | Digester #4 Fabric Cover | \$2,500 | CD09G | |
| | Handrail Replacement | \$2,500 | CD09H | |
| | Subtotal | \$406,000 | | |
| 2010/11 | Influent Pump VFD (3) | \$16,000 | CD10A | |
| | Miscellaneous Capital Items | \$10,000 | CD09F | |
| | PLC-2 (Aeration) | \$6,000 | CD10B | |
| | MLSS Sluice Gates | \$6,000 | CD10C | |
| | Primary Sludge Flow Meters | \$5,000 | CD10D | |
| | Belt Press Feed Flow Meter | \$3,000 | CD10E | |
| | RAS Control Valves | \$3,000 | CD10F | |
| | Subtotal | \$49,000 | | |
| 2011/12 | Microturbine #2 Engine | \$18,000 | CD11A | |
| | Chlorine Analyzers (Chlor/Dechlor) | \$16,000 | CD11B | |
| | Scada Workstation | \$11,000 | CD11C | |
| | Miscellaneous Capital Items | \$10,000 | CD09F | |
| | PLC-0 (Dewatering) | \$7,000 | CD11D | |
| | Subtotal | \$62,000 | | |
| 2012/13 | Blacksmith Shop | \$23,000 | CD12A | |
| | Microturbine #1 Engine | \$19,000 | CD12B | |
| | Primary Clarifier Turnstile Rebuild | \$16,000 | CD12C | |
| | Miscellaneous Capital Items | \$10,000 | CD09F | |
| | Subtotal | \$68,000 | | |
| 2013/14 | Muffin Monster Rebuild | \$12,000 | CD13A | |
| | Miscellaneous Capital Items | \$10,000 | CD09F | |
| | SBS Injection Pumps | \$7,000 | CD13B | |
| | Chlorine Analyzers (Effluent Pump Station) | \$5,000 | CD13C | |
| | PLC-22 Blower Building | \$4,000 | CD13D | |
| | Subtotal | \$38,000 | | |
| 2014/15 to 2023/24 | Annual Allocation | \$1,800,000 | See Note 2 | |
| 15-YEAR TOTAL OF PBCSD SHARE OF CAWD ITEMS | | <u>\$2,423,000</u> | | |

Note 1: The costs shown above represent the one third PBCSD share of the total CAWD cost.

Note 2: The PBCSD share of the CAWD capital improvement program at the treatment plant is assumed to be \$180,000 per year for fiscal year 2014/15 and thereafter.

**PBCSD SHARE OF CARMEL AREA WASTEWATER DISTRICT - TREATMENT PLANT
Capital Project Descriptions**

CD09A Digester No. 1 Mixing System

Replace the primary digester (Digester #1 - 660,000 gallons) mixers with a more energy efficient system. Estimated cost is \$1,000,000 (\$750,000 in 2009-10 and \$250,000 in 2010-11) with PBCSD's one-third share totaling approximately \$333,000.

CD09B Belt Press Filtrate Piping

Replace the belt filter press filtrate collection and transportation piping system (ductile iron installed in 1984) which has rusted and deteriorated to the extent that it represents a "falling object" hazard. PBCSD's one third share is estimated to be \$17,000.

CD09C Sodium Bisulfite Storage Tank

Replace the significantly corroded Sodium Bisulfite (SBS) storage tank including fixed external tank fittings, external tank shell (which has had several external leaks), and the tank heating system. After a 15% allocation of costs to Reclamation, PBCSD's one third share is estimated to be \$14,000.

CD09D Secondary Clarifier Magnetic Flow Meter

Replace the Secondary Clarifier Magnetic Flow Meter which were damaged during the floods of 1995 and 1998. Both the #1 and #2 clarifier transmitter and the mag flow tube will be replaced. The new mag tubes will be submergence proof and the new transmitters will be relocated to an above flood plan elevation. PBCSD's estimated one third share is \$15,000.

CD09E WAS Meter/Valve Replacement

Replace the Waste Activated Sludge (WAS) meter and valves to provide for proper "microbial" system health, and ensure that the correct amount of activated sludge is "wasted" each day. PBCSD's estimated one third share is \$12,000.

CD09F Miscellaneous Capital Items

Each year CAWD staff identifies capital expenditure items required for the treatment plant. A budget of \$10,000 is assumed for fiscal years 2009/10 through 2012/13.

CD09G Digester #4 Fabric Cover

Installed in 2003 to mitigate partially undigested sludge odor problems, the vinyl fabric cover on Digester #4 has reached the end of it's projected 5 year life. PBCSD's one third share is estimated to be \$2,500.

CD09H Handrail Replacement

Handrails on both primary / secondary clarifiers and both aeration basin #3 & #4 have deteriorated to the extent that replacement is necessary. Affected portions of the carbon steel handrail will be replaced with stainless steel in a three-year schedule. Approximately 100 feet will be replaced on each of the two primary clarifiers. Approximately 50 feet will be replaced on secondary clarifier #2. Approximately 200 feet will be replaced on aeration basins #3 & #4. PBCSD's one third share is estimated to be \$2,500.

**PBCSD SHARE OF CARMEL AREA WASTEWATER DISTRICT - TREATMENT PLANT
Capital Project Descriptions**

CD10A Influent Pump VFD (3)

Installed in 1991, the three influent pump VFD (Variable Frequency Drive) units have reached the end of their projected life cycle of 15 years. PBCSD's one third is estimated to be \$16,000.

CD10B PLC-2 (Aeration)

Replace the aeration station's PLC (programmable Logic Controller), which has exceeded it's ten year projected life cycle, with a Tesco installed/configured "VersaViews Upgrade" identical to those installed at PLC-3 (tertiary), PLC-5 (MFIRO), & PLC-6 (effluent) during the recent MFIRO project. PBCSD's one third share is estimated to be \$6,000.

CD10C MLSS Sluice Gates

Replace the two twenty inch sluice gates located at the western most portion of the aeration structure which directly flow from the #3 and #4 aeration basins to the mixed liquor distribution structure and one twenty inch sluice gate which prevents flow from the #3 and #4 aeration basin from entering the primary equalization basins. PBCSD's one third share is estimated to be \$6,000.

CD10D Primary Sludge Flow Meters

Install two flow meters in the #1 & #2 primary sludge discharge pipelines to provide for digester and primary clarifier optimization. PBCSD's one third share to install these meters is approximately \$5,000.

CD10E Belt Press Feed Flow Meter

Replace the Belt Press Feed Flow Meter which has reached the end of its useful life. PBCSD's one-third share to replace the meter is \$3,000.

CD10F RAS Control Valves

Replace the RAS control valves which will be 15 years old by the 2010/11 budget cycle. PBCSD's one third share is approximately \$3,000.

CD11A Microturbine #2 Engine

Replace the Microturbine #2 engine which will have amassed the 40,000 hours of run time that the manufacturer uses as a trigger for engine replacement by the 2011/2012 budget cycle. PBCSD's one third share is approximately \$18,000.

CD11B Chlorine Analyzers (Chlor/Dechlor)

Replace the one DEOX 2000 (negative chlorine residual) analyzer as well as the two Micro 2000 (positive chlorine residual) analyzers which control disinfection and dechlorination, which by 2011/2012 will have reached the end of their ten year life cycles. PBCSD's one-third share is approximately \$16,000.

CD11C Scada Workstation

Replace both Scada Workstations (including operating system and human/machine interface software) which by the 2011/2012 budget cycle will have reached the end of their respective projected life cycles. PBCSD's one-third share is approximately \$11,000.

**PBCSD SHARE OF CARMEL AREA WASTEWATER DISTRICT - TREATMENT PLANT
Capital Project Descriptions**

CD11D PLC-0 (Dewatering)

Replace the dewatering station's PLC (programmable Logic Controller) which will reach the end of its ten year projected life cycle with a Tesco installed/configured VersaViews Upgrade identical to those installed at PLC-3 (tertiary), PLC-5 (MF/RO), & PLC-6 (effluent) during the MF/RO project and most recently, PLC-2 (aeration station). PBCSD's one third share is approximately \$7,000.

CD12A Blacksmith Shop

Replace the 25' x 55' Blacksmith Shop structure (originally erected during the 1956 expansion project) which is showing signs of distress, structural rust, loss of exterior panel integrity with a new pre-fabricated metal building. PBCSD's one third share is estimated to be \$23,000.

CD12B Microturbine #1 Engine

Replace the Microturbine #1 engine which by 2012/2013 is expected to have amassed the 40,000 hours of run time that the manufacturer uses as a trigger for engine replacement. PBCSD's one third share is estimated to be \$19,000.

CD12C Primary Clarifier Turnstile Rebuild

Replace both primary clarifiers (installed in 1972) which by 2012/2013 will have logged 40 years of near continuous operation and will be in need of a total rebuild. PBCSD's one third share is estimated to be \$16,000.

CD13A Muffin Monster Rebuild

Manufacturers recommendations include a total "grinder gear stack" overhaul every five years for the screenings grinder installed at the headworks in 2003. PBCSD's one third share is estimated to be \$12,000.

CD13B SBS Injection Pumps

Replace the SBS Injection Pumps which due to its corrosive nature yields a ten-year life expectancy. By 2013/2014, both pumps will have reached the end of their life cycle. PBCSD's one third share is estimated to be \$7,000.

CD13C Chlorine Analyzers (Effluent Pump Station)

Replace the effluent pump station DEOX 2000 chlorine analyzer (negative chlorine residual) which by 2013/2014, will have reached the end of its ten year life cycle. PBCSD's one third share is estimated to be \$5,000.

CD13D PLC-22 Blower Building

Replace the blower building's PLC (programmable Logic Controller) which will have reached the end of its ten year projected life cycle, with a Tesco installed/configured "VersaViews Upgrade" identical to those installed at PLC-3 (tertiary), PLC-5 (MF/RO), & PLC-6 (effluent) during the MF/RO project, PLC-2 (aeration station) and most recently, PLC-O (dewatering). After allocating 50% of the total project cost to Reclamation, PBCSD's one third share is estimated to be \$4,000.

EXHIBIT E

RECYCLED WATER

DISTRIBUTION SYSTEM

EXHIBIT E

**PBCSD Recycled Water Distribution System
Capital Outlay Plan**

| Fiscal Year | Capital Item | Cost | Project ID | Useful Life |
|--------------------|---|------------------|-------------------|--------------------|
| 2009/10 | Pipeline Cathodic Protection Phase II & III | \$50,000 | RW09A | 20 years |
| | South Embankment Piezometers (3) | \$40,000 | RW09B | One-Time |
| | Forest Lake Spare Feed Pump | \$30,000 | RW09C | 10 years |
| | Subtotal | \$120,000 | | |
| 2010/11 | Storage Tank Exterior Painting | \$30,000 | RW10A | 7 years |
| | Storage Tank Cathodic Protection System Rehab | \$25,000 | RW10B | 15 years |
| | Subtotal | \$55,000 | | |
| 2011/12 | | | | |
| | Subtotal | \$0 | | |
| 2012/13 | Pipeline Cathodic Protection Phase II & III | \$50,000 | RW09A | 20 years |
| | Replace Forest Lake Instrumentation | \$25,000 | RW12A | 5 years |
| | Replace Forest Lake Chemical Feed System Equip | \$15,000 | RW12B | 5 years |
| | Subtotal | \$90,000 | | |
| 2013/14 | Replace Flow Meter Remote Measuring Devices | \$12,000 | RW13A | 6 years |
| | Subtotal | \$12,000 | | |
| 2014/15 | Replace Viscaino Generator | \$50,000 | RW14A | 15 years |
| | Replace Viscaino Pumps (2) & Motor Starters (2) | \$45,000 | RW14B | 15 years |
| | Subtotal | \$95,000 | | |
| 2015/16 | Replace Poppy Hills Pumps (2) & Motor Starters (2) | \$65,000 | RW15A | 10 years |
| | Subtotal | \$65,000 | | |
| 2016/17 | Replace Forest Lake Feed Pumps (2) | \$75,000 | RW16A | 10 years |
| | Replace Forest Lake Strainer Screens (3) | \$20,000 | RW16B | 10 years |
| | Subtotal | \$95,000 | | |
| 2017/18 | Storage Tank Exterior Painting | \$30,000 | RW10A | 7 years |
| | Replace Forest Lake Instrumentation | \$25,000 | RW12A | 5 years |
| | Replace Forest Lake Boat | \$25,000 | RW17A | 10 years |
| | Replace Forest Lake Chemical Feed System Equip | \$15,000 | RW12B | 5 years |
| | Subtotal | \$95,000 | | |
| 2018/19 | | | | |
| | Subtotal | \$0 | | |
| 2019/20 | Replace Flow Meter Remote Measuring Devices | \$12,000 | RW13A | 6 years |
| | Forest Lake Spare Feed Pump | \$30,000 | RW09C | 10 years |

EXHIBIT E

**PBCSD Recycled Water Distribution System
Capital Outlay Plan**

| Fiscal Year | Capital Item | Subtotal | Cost | Project ID | Useful Life |
|------------------------|---|-----------------|-------------------------|-----------------------|------------------------|
| | | | \$42,000 | | |
| 2020/21 | | | | | |
| | | Subtotal | \$0 | | |
| 2021/22 | | | | | |
| | | Subtotal | \$0 | | |
| 2022/23 | Replace Forest Lake Instrumentation | | \$25,000 | RW12A | 5 years |
| | Replace Forest Lake Chemical Feed System Equip | | \$15,000 | RW12B | 5 years |
| | | Subtotal | \$40,000 | | |
| 2023/24 | Storage Tank Interior Coating | | \$50,000 | RW23A | 15 years |
| | | Subtotal | \$50,000 | | |
| | RECYLED WATER DISTRIBUTION SYSTEM TOTAL | | <u>\$759,000</u> | | |

PBCSD RECYCLED WATER DISTRIBUTION SYSTEM
Capital Project Descriptions

RW09A Pipeline Cathodic Protection Phase II & III

Field-testing of the recycled water distribution steel pipeline, which has a total length of 40,000 feet, has indicated the potential for corrosion. This project includes the design and construction of a cathodic protection system for the recycled water pipeline to reduce the potential for corrosion and extend the useful life of the pipeline. Phase II will include planning and design of the system and installation for approximately 5,000 feet of the recycled water line with the highest potential for corrosion in 2009/10 and Phase III will include 5,000 feet in 2012/13.

RW09B South Embankment Piezometers (3)

Install three piezometers to monitor water levels in the south embankment of Forest Lake.

RW09C Forest Lake Spare Feed Pump

A third redundant feed pump will be installed for transporting recycled water to the distribution system.

RW10A Storage Tank Exterior Painting

Install new protective layer of paint on the exterior of the 2.5 million-gallon recycled water storage tank.

RW10B Storage Tank Cathodic Protection System Rehab

Rehabilitate the cathodic protection system at the recycled water storage tank that reduces the potential for corrosion on the interior surface of the tank below water level.

RW12A Replace Forest Lake Instrumentation

The chlorine analyzer and pH meter for the Forest Lake facilities will be replaced.

RW12B Replace Forest Lake Chemical Feed System Equip

Miscellaneous pumps and measuring equipment for the chlorine and pH adjustment chemical feed systems will be replaced.

RW13A Replace Flow Meter Remote Measuring Devices

Replace remote sensors on the meter vault lids to allow recycled water meter readings to be electronically recorded without lifting the meter vault doors each day.

RW14A Replace Viscaino Generator

Replace 250KW electrical power generator at the Viscaino potable water pump station.

RW14B Replace Viscaino Pumps (2) & Motor Starters (2)

Replace the two potable water pumps and motor starters at the Viscaino pump station that supplies potable water to the 2.5 million-gallon storage tank.

PBCSD RECYCLED WATER DISTRIBUTION SYSTEM
Capital Project Descriptions

- RW15A** **Replace Poppy Hills Pumps (2) & Motor Starters (2)**
Replace two pumps and motor starters at the booster pump station that provides water from the recycled water storage tank to the Poppy Hills golf course storage pond.
- RW16A** **Replace Forest Lake Feed Pumps (2)**
Two feed pumps that transport recycled water to the distribution system will be replaced.
- RW16B** **Replace Forest Lake Strainer Screens (3)**
Three strainer screens that remove algae material prior to distribution will be replaced.
- RW17A** **Replace Forest Lake Boat**
Replace the existing 25-foot pontoon boat with small lifting crane that provides more stability for maintenance activities on Forest Lake reservoir.
- RW23A** **Storage Tank Interior Coating**
Install new protective layer of paint on the interior of the 2.5 million-gallon recycled water storage tank.