

## APPENDIX C - Detailed Capital Cost Tables

Revision Date: March 6, 2009  
 Latest Revision by: M Maynard  
 File: 20062935.04.E.06.00

**CAPITAL REGIONAL DISTRICT  
 CORE AREA WASTEWATER MANAGEMENT STRATEGY  
 PROGRAM DEVELOPMENT PHASE**

**SUMMARY OF TOTAL ESTIMATED COSTS**

| <b>Options</b>  | <b>Descriptions</b>        | <b>Total Estimated Costs<br/>Million Dollars</b> |
|-----------------|----------------------------|--|
| <b>OPTION 1</b> |                            |  |
|                 | <b>Capital Costs</b>       |  |
|                 | Stage 1                    | \$1,039  |
|                 | Stage 2                    | \$64   |
|                 | <b>Total Capital Costs</b> | <b>\$1,103</b>                                   |
|                 | <b>Life Cycle Costs</b>    | <b>\$1,174</b>                                   |
| <b>OPTION 2</b> |                            |  |
|                 | <b>Capital Costs</b>       |  |
|                 | Stage 1                    | \$1,444  |
|                 | Stage 2                    | \$84   |
|                 | Stage 3                    | \$16   |
|                 | <b>Total Capital Costs</b> | <b>\$1,543</b>                                   |
|                 | <b>Life Cycle Costs</b>    | <b>\$1,538</b>                                   |
| <b>OPTION 3</b> |                            |  |
|                 | <b>Capital Costs</b>       |  |
|                 | Stage 1                    | \$1,771  |
|                 | Stage 2                    | \$66   |
|                 | Stage 3                    | \$15   |
|                 | <b>Total Capital Costs</b> | <b>\$1,852</b>                                   |
|                 | <b>Life Cycle Costs</b>    | <b>\$1,666</b>                                   |

Notes

1. Life cycle costs are based on a 4% real discount rate
2. Costs are in 2008 dollars

Revision Date: March 6, 2009  
 Latest Revision by: M Maynard  
 File: 20062935.04.E.06.00

**CAPITAL REGIONAL DISTRICT  
 CORE AREA WASTEWATER MANAGEMENT STRATEGY  
 PROGRAM DEVELOPMENT PHASE**

**OPTION 1**

**SUMMARY - ESTIMATED CAPITAL COSTS**

**ESTIMATED CAPITAL COSTS**

| Item   | Saanich East<br>WWTF | Clover Point Wet-<br>Weather TF | South Colwood<br>WWTF | Macaulay<br>Point/McLoughlin<br>Point WWTF | Hartland<br>Biosolids Drying<br>Facility | Wastewater<br>Conveyance<br>Modifications | Total          |
|--|----------------------|---------------------------------|-----------------------|--|--|---|----------------|
|  | \$Million            | \$Million                       | \$Million             | \$Million                                  | \$Million                                | \$Million                                 | \$Million      |
| <b>PLANT - LIQUID STREAM</b>                   |                      |                                 |                       |  |  |   |                |
| Stage 1  | \$118                | \$141                           | \$88                  | \$314                                      |  |   | \$662          |
| Stage 2  | \$10                 |                                 | \$47                  | \$6  |  |   | \$64           |
| <b>PLANT - SOLID STREAM</b>                    |                      |                                 |                       |  |  |   |                |
| Stage 1  |                      |                                 | \$48                  | \$90                                       |  |   | \$139          |
| <b>PLANT RELATED CONVEYANCE</b>                |                      |                                 |                       |  |  |   |                |
| Stage 1  |                      | \$19                            |                       | \$20                                       |  |   | \$39           |
| <b>OUTFALLS</b>                                |                      |                                 |                       |  |  |   |                |
| Stage 1  | \$14                 | \$6                             | \$12                  | \$18                                       |  |   | \$50           |
| <b>HEAT RECOVERY SYSTEM/PIPING</b>             |                      |                                 |                       |  |  |   |                |
| Stage 1  | \$1.1                |                                 | \$1.6                 | \$5  |  |   | \$8            |
| <b>LAND PURCHASE</b>                           |                      |                                 |                       |  |  |   |                |
|  | \$7                  | \$5                             | \$2.0                 | \$7  |  |   | \$20           |
| <b>WASTEWATER CONVEYANCE<br/>MODIFICATIONS</b> |                      |                                 |                       |  |  |   |                |
| Stage 1  |                      |                                 |                       |  |  | \$68                                      | \$68           |
| <b>HARTLAND BIOSOLIDS DRYING<br/>FACILITY</b>  |                      |                                 |                       |  |  |   |                |
| Stage 1  |                      |                                 |                       |  | \$53                                     |   | \$53           |
| <b>TOTAL ESTIMATED CAPITAL COSTS</b>           | <b>\$150</b>         | <b>\$171</b>                    | <b>\$199</b>          | <b>\$462</b>                               | <b>\$53</b>                              | <b>\$68</b>                               | <b>\$1,103</b> |

\$1,103

check

Note  
 1. Costs are in 2008 dollars and include indirect costs

Revision Date: March 6, 2009  
 Latest Revision by: M Maynard  
 File: 20062935.04.E.06.00

**CAPITAL REGIONAL DISTRICT  
 CORE AREA WASTEWATER MANAGEMENT STRATEGY  
 PROGRAM DEVELOPMENT PHASE**

**OPTION 1**

**ESTIMATED CAPITAL COSTS**

| Item                                   | Percentage | Saanich East WWTF                  |                      |                                   | Clover Point Wet-Weather TF        |                      |                                       | South Colwood WWTF                 |                                    |                      |                                   | Macaulay Point/McLoughlin Point WWTF |                                    |                                    |                      | Wastewater Conveyance Modifications | Hartland Biosolids Drying Facility | Check               |                                   |  |
|--|------------|------------------------------------|----------------------|-----------------------------------|------------------------------------|----------------------|---------------------------------------|------------------------------------|------------------------------------|----------------------|-----------------------------------|--------------------------------------|------------------------------------|------------------------------------|----------------------|-------------------------------------|------------------------------------|---------------------|-----------------------------------|--|
|  |            | Plant - Liquid Stream<br>\$Million | Outfall<br>\$Million | Heat Recovery System<br>\$Million | Plant - Liquid Stream<br>\$Million | Outfall<br>\$Million | Plant Related Conveyance<br>\$Million | Plant - Liquid Stream<br>\$Million | Plant - Solids Stream<br>\$Million | Outfall<br>\$Million | Heat Recovery System<br>\$Million | Influent sewer<br>\$Million          | Plant - Liquid Stream<br>\$Million | Plant - Solids Stream<br>\$Million | Outfall<br>\$Million |                                     |                                    |                     | Heat Recovery System<br>\$Million | \$Million  |
| <b>Direct Costs</b>                    |            |                                    |                      |                                   |                                    |                      |                                       |                                    |                                    |                      |                                   |                                      |                                    |                                    |                      |                                     |                                    |                     |                                   |  |
| <b>Base Construction Cost Estimate</b> |            |                                    |                      |                                   |                                    |                      |                                       |                                    |                                    |                      |                                   |                                      |                                    |                                    |                      |                                     |                                    |                     |                                   |  |
| Influent sewer                         |            |                                    |                      |                                   |                                    |                      |                                       |                                    |                                    |                      |                                   | \$12,565,000                         |                                    |                                    |                      |                                     |                                    |                     | \$12,565,000                      |  |
| Plant - Liquid Stream                  |            | \$82,500,000                       |                      |                                   | \$90,680,000                       |                      |                                       | \$86,700,000                       |                                    |                      |                                   |                                      | \$205,700,000                      |                                    |                      |                                     |                                    |                     | \$465,580,000                     |  |
| Plant - Solids Stream                  |            |                                    |                      |                                   |                                    |                      |                                       | \$30,937,000                       |                                    |                      |                                   |                                      |                                    | \$57,882,000                       |                      |                                     |                                    | \$34,128,000        | \$122,947,000                     |  |
| Plant Related Conveyance               |            |                                    |                      |                                   |                                    | \$12,202,000         |                                       |                                    |                                    |                      |                                   |                                      |                                    |                                    |                      |                                     |                                    |                     | \$12,202,000                      |  |
| Outfall                                |            |                                    | \$8,654,000          |                                   | \$3,809,000                        |                      |                                       | \$7,909,000                        |                                    |                      |                                   |                                      |                                    | \$11,856,000                       |                      |                                     |                                    |                     | \$32,228,000                      |  |
| Heat Recovery System/Piping            |            |                                    |                      | \$701,000                         |                                    |                      |                                       |                                    |                                    |                      | \$1,051,000                       |                                      |                                    |                                    |                      |                                     |                                    |                     | \$5,009,000                       |  |
| Other                                  |            |                                    |                      |                                   |                                    |                      |                                       |                                    |                                    |                      |                                   |                                      |                                    |                                    |                      |                                     |                                    |                     | \$43,499,000                      |  |
| Subtotal                               |            | \$82,500,000                       | \$8,654,000          | \$701,000                         | \$90,680,000                       | \$3,809,000          | \$12,202,000                          | \$86,700,000                       | \$30,937,000                       | \$7,909,000          | \$1,051,000                       | \$12,565,000                         | \$205,700,000                      | \$57,882,000                       | \$11,856,000         | \$3,257,000                         |                                    | \$43,499,000        | \$694,030,000                     |  |
| Design Contingency                     | 10.0       | \$8,250,000                        | \$865,400            | \$70,100                          | \$9,068,000                        | \$380,900            | \$1,220,200                           | \$8,670,000                        | \$3,093,700                        | \$790,900            | \$105,100                         | \$1,256,500                          | \$20,570,000                       | \$5,788,200                        | \$1,185,600          | \$325,700                           |                                    | \$4,349,900         | \$69,403,000                      |  |
| Construction Contingency               | 15.0       | \$12,375,000                       | \$1,298,100          | \$105,150                         | \$13,602,000                       | \$571,350            | \$1,830,300                           | \$13,005,000                       | \$4,640,550                        | \$1,186,350          | \$157,650                         | \$1,884,750                          | \$30,855,000                       | \$8,682,300                        | \$1,778,400          | \$488,550                           |                                    | \$6,524,850         | \$104,104,500                     |  |
| Subtotal                               |            | \$103,125,000                      | \$10,817,500         | \$876,250                         | \$113,350,000                      | \$4,761,250          | \$15,252,500                          | \$108,375,000                      | \$38,671,250                       | \$9,886,250          | \$1,313,750                       | \$15,706,250                         | \$257,125,000                      | \$72,352,500                       | \$14,820,000         | \$4,071,250                         |                                    | \$54,373,750        | \$867,537,500                     |  |
| <b>Indirect Costs</b>                  |            |                                    |                      |                                   |                                    |                      |                                       |                                    |                                    |                      |                                   |                                      |                                    |                                    |                      |                                     |                                    |                     |                                   |  |
| Engineering                            | 15.0       | \$15,468,750                       | \$1,622,625          | \$131,438                         | \$17,002,500                       | \$714,188            | \$2,287,875                           | \$16,256,250                       | \$5,800,688                        | \$1,482,938          | \$197,063                         | \$2,355,938                          | \$38,568,750                       | \$10,852,875                       | \$2,223,000          | \$610,688                           |                                    | \$8,156,063         | \$130,130,625                     |  |
| Administration                         | 3.0        | \$3,093,750                        | \$324,525            | \$26,288                          | \$3,400,500                        | \$142,838            | \$457,575                             | \$3,251,250                        | \$1,160,138                        | \$296,588            | \$39,413                          | \$471,188                            | \$7,713,750                        | \$2,170,575                        | \$444,600            | \$122,138                           |                                    | \$1,631,213         | \$26,026,125                      |  |
| Miscellaneous                          | 2.0        | \$2,062,500                        | \$216,350            | \$17,525                          | \$2,267,000                        | \$95,225             | \$305,050                             | \$2,167,500                        | \$773,425                          | \$197,725            | \$26,275                          | \$314,125                            | \$5,142,500                        | \$1,447,050                        | \$296,400            | \$81,425                            |                                    | \$1,087,475         | \$17,350,750                      |  |
| Subtotal                               |            | \$123,750,000                      | \$12,981,000         | \$1,051,500                       | \$136,020,000                      | \$5,713,500          | \$18,303,000                          | \$130,050,000                      | \$46,405,500                       | \$11,863,500         | \$1,576,500                       | \$18,847,500                         | \$308,550,000                      | \$86,823,000                       | \$17,784,000         | \$4,885,500                         |                                    | \$65,248,500        | \$1,041,045,000                   |  |
| GST                                    | 0.0        | \$0                                | \$0                  | \$0                               | \$0                                | \$0                  | \$0                                   | \$0                                | \$0                                | \$0                  | \$0                               | \$0                                  | \$0                                | \$0                                | \$0                  | \$0                                 |                                    | \$0                 | \$0                               |  |
| Interim Financing                      | 4.0        | \$4,950,000                        | \$519,240            | \$42,060                          | \$5,440,800                        | \$228,540            | \$732,120                             | \$5,202,000                        | \$1,856,220                        | \$474,540            | \$63,060                          | \$753,900                            | \$12,342,000                       | \$3,472,920                        | \$711,360            | \$195,420                           |                                    | \$2,609,940         | \$41,641,800                      |  |
| Inflation to Mid-Point of Construction | 0.0        | \$0                                | \$0                  | \$0                               | \$0                                | \$0                  | \$0                                   | \$0                                | \$0                                | \$0                  | \$0                               | \$0                                  | \$0                                | \$0                                | \$0                  | \$0                                 |                                    | \$0                 | \$0                               |  |
| Land Purchase                          |            | \$6,512,000                        |                      |                                   | \$4,500,000                        |                      |                                       | \$1,989,000                        |                                    |                      |                                   |                                      | \$7,350,000                        |                                    |                      |                                     |                                    |                     | \$20,351,000                      |  |
| <b>TOTAL CAPITAL COST</b>              |            | <b>\$128,700,000</b>               | <b>\$13,500,240</b>  | <b>\$1,093,560</b>                | <b>\$141,460,800</b>               | <b>\$5,942,040</b>   | <b>\$19,035,120</b>                   | <b>\$135,252,000</b>               | <b>\$48,261,720</b>                | <b>\$12,338,040</b>  | <b>\$1,639,560</b>                | <b>\$19,601,400</b>                  | <b>\$320,892,000</b>               | <b>\$90,295,920</b>                | <b>\$18,495,360</b>  | <b>\$5,080,920</b>                  |                                    | <b>\$67,858,440</b> | <b>\$53,239,680</b>               | <b>\$1,103,037,800</b><br><i>includes land costs</i> |
| <b>STAGED CAPITAL COST</b>             |            |                                    |                      |                                   |                                    |                      |                                       |                                    |                                    |                      |                                   |                                      |                                    |                                    |                      |                                     |                                    |                     |                                   |  |
| Stage                                  | Year       |                                    |                      |                                   |                                    |                      |                                       |                                    |                                    |                      |                                   |                                      |                                    |                                    |                      |                                     |                                    |                     |                                   |  |
| 1                                      |            | \$118,404,000                      | \$13,500,240         | \$1,093,560                       | \$141,460,800                      | \$5,942,040          | \$19,035,120                          | \$87,913,800                       | \$48,261,720                       | \$12,338,040         | \$1,639,560                       | \$19,601,400                         | \$314,474,160                      | \$90,295,920                       | \$18,495,360         | \$5,080,920                         |                                    | \$67,858,440        | \$53,239,680                      | \$1,038,985,760                                      |
| 2                                      |            | \$10,296,000                       |                      |                                   |                                    |                      |                                       | \$47,338,200.00                    |                                    |                      |                                   |                                      | \$6,417,840                        |                                    |                      |                                     |                                    |                     |                                   | \$64,052,040   |
|  |            |                                    |                      |                                   |                                    |                      |                                       |                                    |                                    |                      |                                   |                                      |                                    |                                    |                      |                                     |                                    |                     |                                   | \$1,103,037,800                                      |

**Notes**

1 Costs are in 2008 dollars.

Revision Date: March 6, 2009  
 Latest Revision by: M Maynard  
 File: 20062935.04.E.06.00

**CAPITAL REGIONAL DISTRICT  
 CORE AREA WASTEWATER MANAGEMENT STRATEGY  
 PROGRAM DEVELOPMENT PHASE**

**OPTION 2**

**SUMMARY - ESTIMATED CAPITAL COSTS**

**ESTIMATED CAPITAL COSTS**

| Item                                       | Saanich East WWTF | Clover Point Wet-Weather TF | Ogden Point WWTF | South Colwood WWTF | Juan de Fuca WWTP | Macaulay Point/McLoughlin Point WWTF | Hartland Biosolids Drying Facility | Wastewater Conveyance Modifications | Total          |
|--|-------------------|-----------------------------|------------------|--------------------|-------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------|
|  | \$Million         | \$Million                   | \$Million        | \$Million          | \$Million         | \$Million                            | \$Million                          | \$Million                           | \$Million      |
| <b>PLANT - LIQUID STREAM</b>               |                   |                             |                  |                    |                   |                                      |                                    |                                     |                |
| Stage 1                                    | \$118             | \$141                       | \$398            | \$45               | \$153             | \$180                                |                                    |                                     | \$1,036        |
| Stage 2                                    | \$10              |                             |                  | \$22               | \$51              |                                      |                                    |                                     | \$84           |
| Stage 3                                    |                   |                             |                  | \$16               |                   |                                      |                                    |                                     | \$16           |
| <b>PLANT - SOLID STREAM</b>                |                   |                             |                  |                    |                   |                                      |                                    |                                     |                |
| Stage 1                                    |                   |                             |                  |                    |                   | \$120                                |                                    |                                     | \$120          |
| <b>PLANT RELATED CONVEYANCE</b>            |                   |                             |                  |                    |                   |                                      |                                    |                                     |                |
| Stage 1                                    |                   | \$13                        | \$1.3            |                    |                   | \$20                                 |                                    |                                     | \$34           |
| <b>WET WEATHER TREATMENT STREAM</b>        |                   |                             |                  |                    |                   | \$24                                 |                                    |                                     | \$24           |
| Stage 1                                    |                   |                             |                  |                    |                   |                                      |                                    |                                     |                |
| <b>OUTFALLS</b>                            |                   |                             |                  |                    |                   |                                      |                                    |                                     |                |
| Stage 1                                    | \$14              | \$6                         | \$6              | \$7                | \$6               | \$15                                 |                                    |                                     | \$54           |
| <b>HEAT RECOVERY SYSTEM/PIPING</b>         |                   |                             |                  |                    |                   |                                      |                                    |                                     |                |
| Stage 1                                    | \$1.1             |                             | \$1.6            | \$0.8              | \$1.9             | \$3                                  |                                    |                                     | \$8            |
| <b>LAND PURCHASE</b>                       | \$7               | \$5                         | \$3              | \$2.0              | \$4               | \$7                                  |                                    |                                     | \$27           |
| <b>WASTEWATER CONVEYANCE MODIFICATIONS</b> |                   |                             |                  |                    |                   |                                      |                                    |                                     |                |
| Stage 1                                    |                   |                             |                  |                    |                   |                                      |                                    | \$87                                | \$87           |
| <b>HARTLAND BIOSOLIDS DRYING FACILITY</b>  |                   |                             |                  |                    |                   |                                      |                                    |                                     |                |
| Stage 1                                    |                   |                             |                  |                    |                   |                                      | \$53                               |                                     | \$53           |
| <b>TOTAL ESTIMATED CAPITAL COSTS</b>       | <b>\$150</b>      | <b>\$165</b>                | <b>\$410</b>     | <b>\$93</b>        | <b>\$216</b>      | <b>\$370</b>                         | <b>\$53</b>                        | <b>\$87</b>                         | <b>\$1,543</b> |
|  |                   |                             |                  |                    |                   |                                      |                                    |                                     | \$1,543        |

check

Note  
 1. Costs are in 2008 dollars and include indirect costs

CAPITAL REGIONAL DISTRICT  
CORE AREA WASTEWATER MANAGEMENT STRATEGY  
PROGRAM DEVELOPMENT PHASE

OPTION 2

ESTIMATED CAPITAL COSTS

| Item                                   | Percentage | Saanich East WWTF     |                     |                      | Clover Point Wet-Weather TF |                    |                          | Ogden Point WWTF      |                    |                          |                      | South Colwood WWTF    |                    |                      | Juan de Fuca WWTP     |                    |                      | Macaulay Point/McLoughlin Point WWTF |                       |                       |                     |                     |                      |   | Check (million dollars) |  |                        |     |
|--|------------|-----------------------|---------------------|----------------------|-----------------------------|--------------------|--------------------------|-----------------------|--------------------|--------------------------|----------------------|-----------------------|--------------------|----------------------|-----------------------|--------------------|----------------------|--------------------------------------|-----------------------|-----------------------|---------------------|---------------------|----------------------|---|-------------------------|--|------------------------|-----|
|  |            | Plant - Liquid Stream | Outfall             | Heat Recovery System | Plant - Liquid Stream       | Outfall            | Plant Related Conveyance | Plant - Liquid Stream | Outfall            | Plant Related Conveyance | Heat Recovery System | Plant - Liquid Stream | Outfall            | Heat Recovery System | Plant - Liquid Stream | Outfall            | Heat Recovery System | Influent sewer                       | Plant - Liquid Stream | Plant - Solids Stream | Wet Weather Stream  | Outfall             | Heat Recovery System | Wastewater Conveyance Modifications (million dollars) |                         | Hartland Biosolids Drying Facility (million dollars) |                        |     |
| <b>Direct Costs</b>                    |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     |                      |   |                         |  |                        |     |
| <b>Base Construction Cost Estimate</b> |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     |                      |   |                         |  |                        |     |
| Influent sewer                         |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      | \$12,565,000                         |                       |                       |                     |                     |                      |   | \$12,565,000            |  |                        |     |
| Plant - Liquid Stream                  |            | \$82,500,000          |                     |                      | \$90,680,000                |                    |                          | \$255,100,000         |                    |                          | \$53,200,000         |                       |                    | \$130,800,000        |                       |                    |                      | \$115,500,000                        |                       |                       |                     |                     |                      |   | \$727,780,000           |  |                        |     |
| Plant - Solids Stream                  |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      | \$77,229,000          |                       |                     |                     |                      |   | \$34,128,000            |  |                        |     |
| Plant - Wet Weather Stream             |            |                       |                     |                      |                             |                    | \$8,133,000              |                       |                    | \$820,000                |                      |                       |                    |                      |                       |                    |                      |                                      | \$15,600,000          |                       |                     |                     |                      |   | \$15,600,000            |  |                        |     |
| Plant Related Conveyance               |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     |                      |   | \$8,953,000             |  |                        |     |
| Outfall                                |            |                       | \$8,654,000         |                      |                             | \$3,809,000        |                          |                       | \$4,018,000        | \$820,000                |                      |                       | \$4,394,000        |                      |                       | \$4,082,000        |                      |                                      |                       |                       |                     | \$9,880,000         |                      |   | \$34,837,000            |  |                        |     |
| Heat Recovery System/Piping            |            |                       |                     | \$701,000            |                             |                    |                          |                       |                    | \$1,051,000              |                      |                       | \$526,000          |                      |                       | \$1,226,000        |                      |                                      |                       |                       |                     | \$1,809,000         |                      |   | \$5,559,000             |  |                        |     |
| Other                                  |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     | \$55,599,000         |   |                         | \$55,599,000   |                        |     |
| Subtotal                               |            | \$82,500,000          | \$8,654,000         | \$701,000            | \$90,680,000                | \$3,809,000        | \$8,133,000              | \$255,100,000         | \$4,018,000        | \$820,000                | \$1,051,000          | \$53,200,000          | \$4,394,000        | \$526,000            | \$130,800,000         | \$4,082,000        | \$1,226,000          | \$12,565,000                         | \$115,500,000         | \$77,229,000          | \$15,600,000        | \$9,880,000         | \$1,809,000          | \$55,599,000  | \$34,128,000            | \$55,599,000   | \$972,004,000          |     |
| Design Contingency                     | 10.0       | \$8,250,000           | \$865,400           | \$70,100             | \$9,068,000                 | \$380,900          | \$813,300                | \$25,510,000          | \$401,800          | \$82,000                 | \$105,100            | \$5,320,000           | \$439,400          | \$52,600             | \$13,080,000          | \$408,200          | \$122,600            | \$1,256,500                          | \$11,550,000          | \$7,722,900           | \$1,560,000         | \$988,000           | \$180,900            | \$5,559,900   | \$3,412,800             | \$5,559,900  | \$97,200,400           |     |
| Construction Contingency               | 15.0       | \$12,375,000          | \$1,298,100         | \$105,150            | \$13,602,000                | \$571,350          | \$1,219,950              | \$38,285,000          | \$602,700          | \$123,000                | \$157,650            | \$7,980,000           | \$659,100          | \$78,900             | \$19,620,000          | \$612,300          | \$183,900            | \$1,884,750                          | \$17,325,000          | \$11,584,350          | \$2,340,000         | \$1,482,000         | \$271,350            | \$8,339,850   | \$5,119,200             | \$8,339,850  | \$145,800,600          |     |
| Subtotal                               |            | \$103,125,000         | \$10,817,500        | \$876,250            | \$113,350,000               | \$4,761,250        | \$10,166,250             | \$318,875,000         | \$5,022,500        | \$1,025,000              | \$1,313,750          | \$66,500,000          | \$5,492,500        | \$657,500            | \$163,500,000         | \$5,102,500        | \$1,532,500          | \$15,706,250                         | \$144,375,000         | \$96,536,250          | \$19,500,000        | \$12,350,000        | \$2,261,250          | \$69,498,750  | \$42,660,000            | \$69,498,750   | \$1,215,005,000        |     |
| <b>Indirect Costs</b>                  |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     |                      |   |                         |  |                        |     |
| Engineering                            | 15.0       | \$15,468,750          | \$1,622,625         | \$131,438            | \$17,002,500                | \$714,188          | \$1,524,938              | \$47,831,250          | \$753,375          | \$153,750                | \$197,063            | \$9,975,000           | \$823,875          | \$98,625             | \$24,525,000          | \$765,375          | \$229,875            | \$2,355,938                          | \$21,656,250          | \$14,480,438          | \$2,925,000         | \$1,852,500         | \$339,188            | \$10,424,813  | \$6,399,000             | \$10,424,813   | \$182,250,750          |     |
| Administration                         | 3.0        | \$3,093,750           | \$324,525           | \$26,288             | \$3,400,500                 | \$142,838          | \$304,988                | \$9,566,250           | \$150,675          | \$30,750                 | \$39,413             | \$1,995,000           | \$164,775          | \$19,725             | \$4,905,000           | \$153,075          | \$45,975             | \$471,188                            | \$4,331,250           | \$2,896,088           | \$585,000           | \$370,500           | \$67,838             | \$2,084,963   | \$1,279,800             | \$2,084,963  | \$36,450,150           |     |
| Miscellaneous                          | 2.0        | \$2,062,500           | \$216,350           | \$17,525             | \$2,267,000                 | \$95,225           | \$203,325                | \$6,377,500           | \$100,450          | \$20,500                 | \$26,275             | \$1,330,000           | \$109,850          | \$13,150             | \$3,270,000           | \$102,050          | \$30,650             | \$314,125                            | \$2,887,500           | \$1,930,725           | \$390,000           | \$247,000           | \$45,225             | \$1,389,975   | \$853,200               | \$1,389,975  | \$24,300,100           |     |
| Subtotal                               |            | \$123,750,000         | \$12,981,000        | \$1,051,500          | \$136,020,000               | \$5,713,500        | \$12,199,500             | \$382,650,000         | \$6,027,000        | \$1,230,000              | \$1,576,500          | \$79,800,000          | \$6,591,000        | \$789,000            | \$196,200,000         | \$6,123,000        | \$1,839,000          | \$18,847,500                         | \$173,250,000         | \$115,843,500         | \$23,400,000        | \$14,820,000        | \$2,713,500          | \$83,398,500  | \$51,192,000            | \$83,398,500   | \$1,458,006,000        |     |
| GST                                    | 0.0        | \$0                   | \$0                 | \$0                  | \$0                         | \$0                | \$0                      | \$0                   | \$0                | \$0                      | \$0                  | \$0                   | \$0                | \$0                  | \$0                   | \$0                | \$0                  | \$0                                  | \$0                   | \$0                   | \$0                 | \$0                 | \$0                  | \$0   | \$0                     | \$0  | \$0                    | \$0 |
| Interim Financing                      | 4.0        | \$4,950,000           | \$519,240           | \$42,060             | \$5,440,800                 | \$228,540          | \$487,980                | \$15,306,000          | \$241,080          | \$49,200                 | \$63,060             | \$3,192,000           | \$263,640          | \$31,560             | \$7,848,000           | \$244,920          | \$73,560             | \$753,900                            | \$6,930,000           | \$4,633,740           | \$936,000           | \$592,800           | \$108,540            | \$3,335,940   | \$2,047,680             | \$3,335,940  | \$58,320,240           |     |
| Inflation to Mid-Point of Construction | 0.0        | \$0                   | \$0                 | \$0                  | \$0                         | \$0                | \$0                      | \$0                   | \$0                | \$0                      | \$0                  | \$0                   | \$0                | \$0                  | \$0                   | \$0                | \$0                  | \$0                                  | \$0                   | \$0                   | \$0                 | \$0                 | \$0                  | \$0   | \$0                     | \$0  | \$0                    | \$0 |
| Land Purchase                          |            | \$6,512,000           |                     |                      | \$4,500,000                 |                    |                          | \$3,150,000           |                    |                          |                      | \$1,989,000           |                    |                      | \$3,672,000           |                    |                      | \$7,350,000                          |                       |                       |                     |                     |                      |   |                         |  | \$27,173,000           |     |
| <b>TOTAL CAPITAL COST</b>              |            | <b>\$128,700,000</b>  | <b>\$13,500,240</b> | <b>\$1,093,560</b>   | <b>\$141,460,800</b>        | <b>\$5,942,040</b> | <b>\$12,687,480</b>      | <b>\$397,956,000</b>  | <b>\$6,268,080</b> | <b>\$1,279,200</b>       | <b>\$1,639,560</b>   | <b>\$82,992,000</b>   | <b>\$6,854,640</b> | <b>\$820,560</b>     | <b>\$204,048,000</b>  | <b>\$6,367,920</b> | <b>\$1,912,560</b>   | <b>\$19,601,400</b>                  | <b>\$180,180,000</b>  | <b>\$120,477,240</b>  | <b>\$24,336,000</b> | <b>\$15,412,800</b> | <b>\$2,822,040</b>   | <b>\$86,734,440</b>                                   | <b>\$53,239,680</b>     | <b>\$1,543,499,240</b>                               | <b>\$1,543,499,240</b> |     |
|  |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     |                      |   |                         |  |                        |     |
| <b>STAGED CAPITAL COST</b>             |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     |                      |   |                         |  |                        |     |
| Stage                                  | Year       |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      |                       |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     |                      |   |                         |  |                        |     |
| 1                                      |            | \$118,404,000         | \$13,500,240        | \$1,093,560          | \$141,460,800               | \$5,942,040        | \$12,687,480             | \$397,956,000         | \$6,268,080        | \$1,279,200              | \$1,639,560          | \$44,815,680          | \$6,854,640        | \$820,560            | \$153,036,000         | \$6,367,920        | \$1,912,560          | \$19,601,400                         | \$180,180,000         | \$120,477,240         | \$24,336,000        | \$15,412,800        | \$2,822,040          | \$86,734,440  | \$53,239,680            | \$1,444,014,920                                      | \$83,715,840           |     |
| 2                                      |            | \$10,296,000          |                     |                      |                             |                    |                          |                       |                    |                          |                      | \$22,407,840          |                    |                      | \$51,012,000          |                    |                      |                                      |                       |                       |                     |                     |                      |   |                         |  | \$15,768,480           |     |
| 3                                      |            |                       |                     |                      |                             |                    |                          |                       |                    |                          |                      | \$15,768,480          |                    |                      |                       |                    |                      |                                      |                       |                       |                     |                     |                      |   |                         |  | \$1,543,499,240        |     |

**Notes**  
1 Costs are in 2008 dollars.  
3. Includes Wet Weather TF

Revision Date: March 6, 2009  
 Latest Revision by: M Maynard  
 File: 20062935.04.E.06.00

**CAPITAL REGIONAL DISTRICT  
 CORE AREA WASTEWATER MANAGEMENT STRATEGY  
 PROGRAM DEVELOPMENT PHASE**

**OPTION 3**

**SUMMARY - ESTIMATED CAPITAL COSTS**

**ESTIMATED CAPITAL COSTS**

| Item                                       | Saanich East WWTF | Windsor Park WWTF | Clover Point Wet-Weather TF | Ogden Point WWTF | South Colwood WWTF | Westhills WWTP | Florence Lake WWTF | Juan de Fuca WWTP | Lang Cove WWTP | Roderick WWTP | Macaulay Point/McLoughlin Point WWTF | Hartland Biosolids Drying Facility | Wastewater Conveyance Modifications | Royal Roads Organics Facility | Total          |
|--|-------------------|-------------------|-----------------------------|------------------|--------------------|----------------|--------------------|-------------------|----------------|---------------|--------------------------------------|------------------------------------|-------------------------------------|-------------------------------|----------------|
|  | \$Million         | \$Million         | \$Million                   | \$Million        | \$Million          | \$Million      | \$Million          | \$Million         | \$Million      | \$Million     | \$Million                            | \$Million                          | \$Million                           | \$Million                     | \$Million      |
| <b>PLANT - LIQUID STREAM</b>               |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
| Stage 1                                    | \$125             | \$139             | \$141                       | \$237            | \$41               | \$72           | \$36               | \$164             | \$57           | \$181         | \$104                                |                                    |                                     |                               | \$1,297        |
| Stage 2                                    |                   |                   |                             |                  | \$20               | \$4            | \$8                | \$18              | \$15           |               |                                      |                                    |                                     |                               | \$66           |
| Stage 3                                    |                   |                   |                             |                  | \$14               |                | \$0.9              |                   |                |               |                                      |                                    |                                     |                               | \$15           |
| <b>PLANT - SOLID STREAM</b>                |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
| Stage 1                                    |                   |                   |                             |                  |                    |                |                    |                   |                |               | \$90                                 |                                    | \$66                                |                               | \$156          |
| <b>PLANT RELATED CONVEYANCE</b>            |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
| Stage 1                                    |                   |                   | \$13                        | \$1.1            |                    |                |                    |                   |                |               | \$20                                 |                                    |                                     |                               | \$33           |
| <b>WET WEATHER TREATMENT STREAM</b>        |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
| Stage 1                                    |                   |                   |                             |                  |                    |                |                    |                   |                |               | \$24                                 |                                    |                                     |                               | \$24           |
| <b>OUTFALLS</b>                            |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
| Stage 1                                    | \$14              | \$7               | \$6                         | \$5              | \$7                | \$19           | \$19               | \$5               | \$3            | \$6           | \$15                                 |                                    |                                     |                               | \$107          |
| <b>HEAT RECOVERY SYSTEM/PIPING</b>         |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
| Stage 1                                    | \$1.1             | \$1.0             |                             | \$1.2            | \$0.8              | \$0.8          | \$0.5              | \$1.0             | \$0.8          | \$1.2         | \$2.0                                |                                    |                                     |                               | \$10           |
| <b>LAND PURCHASE</b>                       |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
|  | \$7               | \$5               | \$5                         | \$3              | \$2.0              |                | \$0.2              | \$4               | \$1.0          | \$0.7         | \$7                                  |                                    |                                     | \$0.5                         | \$35           |
| <b>WASTEWATER CONVEYANCE MODIFICATIONS</b> |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
| Stage 1                                    |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    | \$54                                |                               | \$54           |
| <b>HARTLAND BIOSOLIDS DRYING FACILITY</b>  |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      |                                    |                                     |                               |                |
| Stage 1                                    |                   |                   |                             |                  |                    |                |                    |                   |                |               |                                      | \$53                               |                                     |                               | \$53           |
| <b>TOTAL ESTIMATED CAPITAL COSTS</b>       | <b>\$146</b>      | <b>\$152</b>      | <b>\$165</b>                | <b>\$247</b>     | <b>\$85</b>        | <b>\$96</b>    | <b>\$65</b>        | <b>\$192</b>      | <b>\$78</b>    | <b>\$189</b>  | <b>\$263</b>                         | <b>\$53</b>                        | <b>\$54</b>                         | <b>\$67</b>                   | <b>\$1,852</b> |

Note  
 1. Costs are in 2008 dollars and include indirect costs

check

Revision Date: March 6, 2009  
 Latest Revision by: M Maynard  
 File: 20062935.04.E.06.00

**CAPITAL REGIONAL DISTRICT  
 CORE AREA WASTEWATER MANAGEMENT STRATEGY  
 PROGRAM DEVELOPMENT PHASE**

**OPTION 3**

**ESTIMATED CAPITAL COSTS**

| Item                                   | Percentage | Saanich East WWTF               |                     |                                | Windsor Park WWTF               |                    |                                | Clover Point Wet-Weather TF     |                    |                                    | Ogden Point WWTF                |                    |                                | South Colwood WWTF       |                                 |                    | Westhills WWTP <sup>4</sup>    |                                 |                     | Fl               |                                |
|--|------------|---------------------------------|---------------------|--------------------------------|---------------------------------|--------------------|--------------------------------|---------------------------------|--------------------|------------------------------------|---------------------------------|--------------------|--------------------------------|--------------------------|---------------------------------|--------------------|--------------------------------|---------------------------------|---------------------|------------------|--------------------------------|
|  |            | Plant - Liquid Stream \$Million | Outfall \$Million   | Heat Recovery System \$Million | Plant - Liquid Stream \$Million | Outfall \$Million  | Heat Recovery System \$Million | Plant - Liquid Stream \$Million | Outfall \$Million  | Plant Related Conveyance \$Million | Plant - Liquid Stream \$Million | Outfall \$Million  | Heat Recovery System \$Million | Plant Related Conveyance | Plant - Liquid Stream \$Million | Outfall \$Million  | Heat Recovery System \$Million | Plant - Liquid Stream \$Million | Outfall \$Million   |                  | Heat Recovery System \$Million |
| <b>Direct Costs</b>                    |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Base Construction Cost Estimate        |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Influent sewer                         |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Plant - Liquid Stream                  |            | \$80,100,000                    |                     |                                | \$88,900,000                    |                    |                                | \$90,680,000                    |                    |                                    | \$151,800,000                   |                    |                                | \$48,200,000             |                                 |                    | \$48,900,000                   |                                 |                     | \$28,800,000     |                                |
| Plant - Solids Stream                  |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Plant - Wet Weather Stream             |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Plant Related Conveyance               |            |                                 |                     |                                |                                 |                    |                                |                                 | \$8,133,000        |                                    |                                 |                    | \$729,000                      |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Outfall                                |            |                                 | \$8,654,000         |                                |                                 | \$4,764,000        |                                | \$3,809,000                     |                    |                                    |                                 | \$2,946,000        |                                |                          | \$4,394,000                     |                    | \$526,000                      |                                 | \$12,408,000        |                  | \$481,000                      |
| Heat Recovery System/Piping            |            |                                 |                     | \$701,000                      |                                 |                    | \$613,000                      |                                 |                    |                                    |                                 |                    | \$788,000                      |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Other                                  |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Subtotal                               |            | \$80,100,000                    | \$8,654,000         | \$701,000                      | \$88,900,000                    | \$4,764,000        | \$613,000                      | \$90,680,000                    | \$3,809,000        | \$8,133,000                        | \$151,800,000                   | \$2,946,000        | \$788,000                      | \$729,000                | \$48,200,000                    | \$4,394,000        | \$526,000                      | \$48,900,000                    | \$12,408,000        | \$481,000        | \$28,800,000                   |
| Design Contingency                     | 10.0       | \$8,010,000                     | \$865,400           | \$70,100                       | \$8,890,000                     | \$476,400          | \$61,300                       | \$9,068,000                     | \$380,900          | \$813,300                          | \$15,180,000                    | \$294,600          | \$78,800                       | \$72,900                 | \$4,820,000                     | \$439,400          | \$52,600                       | \$4,890,000                     | \$1,240,800         | \$48,100         | \$2,880,000                    |
| Construction Contingency               | 15.0       | \$12,015,000                    | \$1,298,100         | \$105,150                      | \$13,335,000                    | \$714,600          | \$91,950                       | \$13,602,000                    | \$571,350          | \$1,219,950                        | \$22,770,000                    | \$441,900          | \$118,200                      | \$109,350                | \$7,230,000                     | \$659,100          | \$78,900                       | \$7,335,000                     | \$1,861,200         | \$72,150         | \$4,320,000                    |
| Subtotal                               |            | \$100,125,000                   | \$10,817,500        | \$876,250                      | \$111,125,000                   | \$5,955,000        | \$766,250                      | \$113,350,000                   | \$4,761,250        | \$10,166,250                       | \$189,750,000                   | \$3,682,500        | \$985,000                      | \$911,250                | \$60,250,000                    | \$5,492,500        | \$657,500                      | \$61,125,000                    | \$15,510,000        | \$601,250        | \$36,000,000                   |
| <b>Indirect Costs</b>                  |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Engineering                            | 15.0       | \$15,018,750                    | \$1,622,625         | \$131,438                      | \$16,668,750                    | \$893,250          | \$114,938                      | \$17,002,500                    | \$714,188          | \$1,524,938                        | \$28,462,500                    | \$552,375          | \$147,750                      | \$136,688                | \$9,037,500                     | \$823,875          | \$98,625                       | \$9,168,750                     | \$2,326,500         | \$90,188         | \$5,400,000                    |
| Administration                         | 3.0        | \$3,003,750                     | \$324,525           | \$26,288                       | \$3,333,750                     | \$178,650          | \$22,988                       | \$3,400,500                     | \$142,838          | \$304,988                          | \$5,692,500                     | \$110,475          | \$29,550                       | \$27,338                 | \$1,807,500                     | \$164,775          | \$19,725                       | \$1,833,750                     | \$465,300           | \$18,038         | \$1,080,000                    |
| Miscellaneous                          | 2.0        | \$2,002,500                     | \$216,350           | \$17,525                       | \$2,222,500                     | \$119,100          | \$15,325                       | \$2,267,000                     | \$95,225           | \$203,325                          | \$3,795,000                     | \$73,650           | \$19,700                       | \$18,225                 | \$1,205,000                     | \$109,850          | \$13,150                       | \$1,222,500                     | \$310,200           | \$12,025         | \$720,000                      |
| Subtotal                               |            | \$120,150,000                   | \$12,981,000        | \$1,051,500                    | \$133,350,000                   | \$7,146,000        | \$919,500                      | \$136,020,000                   | \$5,713,500        | \$12,199,500                       | \$227,700,000                   | \$4,419,000        | \$1,182,000                    | \$1,093,500              | \$72,300,000                    | \$6,591,000        | \$789,000                      | \$73,350,000                    | \$18,612,000        | \$721,500        | \$43,200,000                   |
| GST                                    | 0.0        | \$0                             | \$0                 | \$0                            | \$0                             | \$0                | \$0                            | \$0                             | \$0                | \$0                                | \$0                             | \$0                | \$0                            | \$0                      | \$0                             | \$0                | \$0                            | \$0                             | \$0                 | \$0              | \$0                            |
| Interim Financing                      | 4.0        | \$4,806,000                     | \$519,240           | \$42,060                       | \$5,334,000                     | \$285,840          | \$36,780                       | \$5,440,800                     | \$228,540          | \$487,980                          | \$9,108,000                     | \$176,760          | \$47,280                       | \$43,740                 | \$2,892,000                     | \$263,640          | \$31,560                       | \$2,934,000                     | \$744,480           | \$28,860         | \$1,728,000                    |
| Inflation to Mid-Point of Construction | 0.0        | \$0                             | \$0                 | \$0                            | \$0                             | \$0                | \$0                            | \$0                             | \$0                | \$0                                | \$0                             | \$0                | \$0                            | \$0                      | \$0                             | \$0                | \$0                            | \$0                             | \$0                 | \$0              | \$0                            |
| Land Purchase                          |            | \$6,512,000                     |                     |                                | \$5,000,000                     |                    |                                | \$4,500,000                     |                    |                                    | \$3,150,000                     |                    |                                | \$1,989,000              |                                 |                    |                                |                                 |                     |                  | \$157,500                      |
| <b>TOTAL CAPITAL COST</b>              |            | <b>\$124,956,000</b>            | <b>\$13,500,240</b> | <b>\$1,093,560</b>             | <b>\$138,684,000</b>            | <b>\$7,431,840</b> | <b>\$956,280</b>               | <b>\$141,460,800</b>            | <b>\$5,942,040</b> | <b>\$12,687,480</b>                | <b>\$236,808,000</b>            | <b>\$4,595,760</b> | <b>\$1,229,280</b>             | <b>\$1,137,240</b>       | <b>\$75,192,000</b>             | <b>\$6,854,640</b> | <b>\$820,560</b>               | <b>\$76,284,000</b>             | <b>\$19,356,480</b> | <b>\$750,360</b> | <b>\$44,928,000</b>            |
| <b>STAGED CAPITAL COST</b>             |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| Stage                                  | Year       |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                |                          |                                 |                    |                                |                                 |                     |                  |                                |
| 1                                      |            | \$124,956,000                   | \$13,500,240        | \$1,093,560                    | \$138,684,000                   | \$7,431,840        | \$956,280                      | \$141,460,800                   | \$5,942,040        | \$12,687,480                       | \$236,808,000                   | \$4,595,760        | \$1,229,280                    | \$1,137,240              | \$40,603,680                    | \$6,854,640        | \$820,560                      | \$72,469,800                    | \$19,356,480        | \$750,360        | \$35,942,400                   |
| 2                                      |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                | \$20,301,840             |                                 |                    |                                | \$3,814,200                     |                     |                  | \$8,087,040                    |
| 3                                      |            |                                 |                     |                                |                                 |                    |                                |                                 |                    |                                    |                                 |                    |                                | \$14,286,480             |                                 |                    |                                |                                 |                     |                  | \$898,560                      |

- Notes**
- Costs are in 2008 dollars.
  - 
  - Includes Wet Weather TF
  - Outfall piping to Humpback Reservoir & Royal Bay split equally between Westhills & Florence Lake



| Oronoco Lake WWTF <sup>4</sup> |                                | Juan de Fuca WWTP               |                   |                                | Lang Cove WWTP                  |                   |                                | Roderick WWTP                   |                   |                                | Macaulay Point/McLoughlin Point WWTF <sup>3</sup> |                                 |                                 |                                      |                   |                                | Wastewater Conveyance Modifications | Hartland Biosolids Drying Facility | Royal Roads Organics Facility | Check (million dollars)  |
|--------------------------------|--------------------------------|---------------------------------|-------------------|--------------------------------|---------------------------------|-------------------|--------------------------------|---------------------------------|-------------------|--------------------------------|---|---------------------------------|---------------------------------|--------------------------------------|-------------------|--------------------------------|-------------------------------------|------------------------------------|-------------------------------|--|
| Outfall \$Million              | Heat Recovery System \$Million | Plant - Liquid Stream \$Million | Outfall \$Million | Heat Recovery System \$Million | Plant - Liquid Stream \$Million | Outfall \$Million | Heat Recovery System \$Million | Plant - Liquid Stream \$Million | Outfall \$Million | Heat Recovery System \$Million | Influent sewer \$Million                          | Plant - Liquid Stream \$Million | Plant - Solids Stream \$Million | Plant - Wet Weather Stream \$Million | Outfall \$Million | Heat Recovery System \$Million | \$Million                           | \$Million                          | \$Million                     |  |
|                                |                                | \$116,900,000                   |                   |                                | \$46,500,000                    |                   |                                | \$116,200,000                   |                   |                                | \$12,565,000                                      | \$66,500,000                    | \$57,841,000                    |                                      |                   |                                |                                     | \$34,128,000                       | \$42,418,000                  | \$12,565,000   |
| \$12,408,000                   | \$350,000                      |                                 | \$3,334,000       | \$613,000                      |                                 | \$2,124,000       | \$526,000                      |                                 | \$3,790,000       | \$788,000                      |   |                                 |                                 |                                      | \$9,880,000       | \$1,267,000                    |                                     |                                    |                               | \$883,480,000  |
| \$12,408,000                   | \$350,000                      | \$116,900,000                   | \$3,334,000       | \$613,000                      | \$46,500,000                    | \$2,124,000       | \$526,000                      | \$116,200,000                   | \$3,790,000       | \$788,000                      | \$12,565,000                                      | \$66,500,000                    | \$57,841,000                    | \$15,600,000                         | \$9,880,000       | \$1,267,000                    | \$34,921,000                        | \$34,128,000                       | \$42,418,000                  | \$134,387,000  |
| \$1,240,800                    | \$35,000                       | \$11,690,000                    | \$333,400         | \$61,300                       | \$4,650,000                     | \$212,400         | \$52,600                       | \$11,620,000                    | \$379,000         | \$78,800                       | \$1,256,500                                       | \$6,650,000                     | \$5,784,100                     | \$1,560,000                          | \$988,000         | \$126,700                      | \$3,492,100                         | \$3,412,800                        | \$4,241,800                   | \$15,600,000   |
| \$1,861,200                    | \$52,500                       | \$17,535,000                    | \$500,100         | \$91,950                       | \$6,975,000                     | \$318,600         | \$78,900                       | \$17,430,000                    | \$568,500         | \$118,200                      | \$1,884,750                                       | \$9,975,000                     | \$8,676,150                     | \$2,340,000                          | \$1,482,000       | \$190,050                      | \$5,238,150                         | \$5,119,200                        | \$6,362,700                   | \$8,862,000  |
| \$15,510,000                   | \$437,500                      | \$146,125,000                   | \$4,167,500       | \$766,250                      | \$58,125,000                    | \$2,655,000       | \$657,500                      | \$145,250,000                   | \$4,737,500       | \$985,000                      | \$15,706,250                                      | \$83,125,000                    | \$72,301,250                    | \$19,500,000                         | \$12,350,000      | \$1,583,750                    | \$43,651,250                        | \$42,660,000                       | \$53,022,500                  | \$68,511,000   |
| \$2,326,500                    | \$65,625                       | \$21,918,750                    | \$625,125         | \$114,938                      | \$8,718,750                     | \$398,250         | \$98,625                       | \$21,787,500                    | \$710,625         | \$147,750                      | \$2,355,938                                       | \$12,469,750                    | \$10,845,188                    | \$2,925,000                          | \$1,852,500       | \$237,563                      | \$6,547,688                         | \$6,399,000                        | \$7,953,375                   | \$6,653,000  |
| \$465,300                      | \$13,125                       | \$4,383,750                     | \$125,025         | \$22,988                       | \$1,743,750                     | \$79,650          | \$19,725                       | \$4,357,500                     | \$142,125         | \$29,550                       | \$471,188   | \$2,493,750                     | \$2,169,038                     | \$585,000                            | \$370,500         | \$47,513                       | \$1,309,538                         | \$1,279,800                        | \$1,590,675                   | \$34,921,000   |
| \$310,200                      | \$8,750                        | \$2,922,500                     | \$83,350          | \$15,325                       | \$1,162,500                     | \$53,100          | \$13,150                       | \$2,905,000                     | \$94,750          | \$19,700                       | \$314,125   | \$1,662,500                     | \$1,446,025                     | \$390,000                            | \$247,000         | \$31,675                       | \$673,025                           | \$853,200                          | \$1,060,450                   | \$34,921,000   |
| \$18,612,000                   | \$525,000                      | \$175,350,000                   | \$5,001,000       | \$919,500                      | \$69,750,000                    | \$3,186,000       | \$789,000                      | \$174,300,000                   | \$5,685,000       | \$1,182,000                    | \$18,847,500                                      | \$99,750,000                    | \$86,761,500                    | \$23,400,000                         | \$14,820,000      | \$1,900,500                    | \$52,381,500                        | \$51,192,000                       | \$63,627,000                  | \$8,862,000  |
| \$0                            | \$0                            | \$0                             | \$0               | \$0                            | \$0                             | \$0               | \$0                            | \$0                             | \$0               | \$0                            | \$0   | \$0                             | \$0                             | \$0                                  | \$0               | \$0                            | \$0                                 | \$0                                | \$0                           | \$6,511,000  |
| \$744,480                      | \$21,000                       | \$7,014,000                     | \$200,040         | \$36,780                       | \$2,790,000                     | \$127,440         | \$31,560                       | \$6,972,000                     | \$227,400         | \$47,280                       | \$753,900   | \$3,990,000                     | \$3,470,460                     | \$936,000                            | \$592,800         | \$76,020                       | \$2,095,260                         | \$2,047,680                        | \$2,545,080                   | \$6,511,000  |
| \$0                            | \$0                            | \$0                             | \$0               | \$0                            | \$0                             | \$0               | \$0                            | \$0                             | \$0               | \$0                            | \$0   | \$0                             | \$0                             | \$0                                  | \$0               | \$0                            | \$0                                 | \$0                                | \$0                           | \$6,511,000  |
|                                |                                | \$3,672,000                     |                   |                                | \$1,000,000                     |                   |                                | \$700,000                       |                   |                                | \$7,350,000                                       |                                 |                                 |                                      |                   |                                |                                     |                                    | \$472,500                     | \$34,503,000   |
| \$19,356,480                   | \$546,000                      | \$182,364,000                   | \$5,201,040       | \$956,280                      | \$72,540,000                    | \$3,313,440       | \$820,560                      | \$181,272,000                   | \$5,912,400       | \$1,229,280                    | \$19,601,400                                      | \$103,740,000                   | \$90,231,960                    | \$24,336,000                         | \$15,412,800      | \$1,976,520                    | \$54,476,760                        | \$53,239,680                       | \$66,172,080                  | \$1,851,870,240<br><i>includes land costs</i>                      |
| \$19,356,480                   | \$546,000                      | \$164,127,600<br>\$18,236,400   | \$5,201,040       | \$956,280                      | \$57,306,600<br>\$15,233,400    | \$3,313,440       | \$820,560                      | \$181,272,000                   | \$5,912,400       | \$1,229,280                    | \$19,601,400                                      | \$103,740,000                   | \$90,231,960                    | \$24,336,000                         | \$15,412,800      | \$1,976,520                    | \$54,476,760                        | \$53,239,680                       | \$66,172,080                  | \$1,771,012,320<br>\$65,672,880<br>\$15,185,040<br>\$1,851,870,240 |