

Stormwater System

Page	Project	Project Name	2015	2016	2017	2018	2019	5-Year Total
77	94001	Storm Drainage Major Maintenance Program	50,000	50,000	50,000	50,000	50,000	250,000
78	94013	Community Tree Planting Program	35,000	0	0	0	0	35,000
79	94016	Derry Dell Bank Stabilization <i>(118th Court)</i>	0	642,000	0	0	0	642,000
80	94022	Copper Creek Bank Stabilization <i>(Durham Road and Copper Creek Drive)</i>	174,000	0	0	0	0	174,000
81	94025	Storm Facility Reconstruction <i>(Greenfield Drive near Pine View)</i>	0	358,000	0	0	0	358,000
82	94028	Main Street Storm Rehabilitation <i>(Fanno Creek)</i>	0	0	600,000	125,000	0	725,000
83	94031	Pacific Highway Median WQF Project	67,850	0	0	0	0	67,850
84	94032	Burlcrest Drive Stormwater Improvements <i>(Summer Crest Drive to 121st Avenue)</i>	0	0	180,000	545,000	0	725,000
85	94033	Canterbury Lane Storm Sewer Upgrade <i>(106th Avenue to Pacific Highway)</i>	0	110,000	335,000	0	0	445,000
86	94034	Ridgefield Lane Water Quality Facility Repair/Stabilization	0	85,000	280,000	0	0	365,000
Total Funded			326,850	1,245,000	1,445,000	720,000	50,000	3,786,850

Storm Drainage Major Maintenance Program

LOCATION	Citywide
PROJECT MANAGER	Greg Berry, <i>Public Works</i>
FUNDING STATUS	Fully Funded
PROJECT RESULTS	Repairs made prior to or just after failure reducing the possibilities of service interruptions.



PROJECT NEED

Provide major maintenance of the storm drainage system.

PROJECT DESCRIPTION

This program is used for urgent projects to renew, repair or replace sections of the storm system that have failed or are near failure. Normal operations and maintenance includes work on the system to keep it functioning but does not result in renewing or replacing the pipe or other appurtenances. Projects included in the Storm Drainage Major Maintenance Program exceed normal maintenance and operations as they typically replace facilities and add a renewed service life.

PROJECT FUNDING

Actual Through 2013 is not calculated on Programs.

Storm Drainage Major Maintenance

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	5,000	5,000	5,000	5,000	5,000	5,000	5,000	30,000
Construction Management	0	5,000	5,000	5,000	5,000	5,000	5,000	5,000	30,000
Total Internal Expenses	0	10,000	10,000	10,000	10,000	10,000	10,000	10,000	60,000
EXTERNAL EXPENSES									
Construction	0	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000
Total External Expenses	0	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000
Total Tigard Project Expense	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000
Total Tigard Project Revenues	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000



Community Tree Planting Program

LOCATION Various

PROJECT MANAGER Carla Staedter, *Public Works*

FUNDING STATUS Fully Funded

PROJECT RESULTS Compliance with Healthy Streams Plan standards.



PROJECT NEED

Meet the community tree planting goals in the Healthy Streams Plan.

PROJECT DESCRIPTION

The project will plant native trees and shrubs along creeks and streams within the city. Environmental permitting agencies allow planting along tributaries to cool storm water in lieu of mechanical cooling at sewage treatment plants. At this time, the program goals will be met in FY 2015 and the program will transition to a phase for the maintenance of trees that have been planted by the program.

PROJECT FUNDING

Actual Through 2013 is not calculated on Programs.

Community Tree Planting Program

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
EXTERNAL EXPENSES									
Construction	0	35,000	35,000	35,000	0	0	0	0	70,000
Total External Expenses	0	35,000	35,000	35,000	0	0	0	0	70,000
Total Tigard Project Expense	0	35,000	35,000	35,000	0	0	0	0	70,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	35,000	35,000	35,000	0	0	0	0	70,000
Total Tigard Project Revenues	0	35,000	35,000	35,000	0	0	0	0	70,000

Derry Dell Bank Stabilization (118th Court)

LOCATION	Derry Dell Creek at 118th Court
PROJECT MANAGER	Kim McMillan, <i>Public Works</i>
FUNDING STATUS	Fully Funded
PROJECT RESULTS	Improvements include increased access, improved water quality, reduced creek velocities and repaired storm water outfalls.



PROJECT NEED

Provide bank stabilization and creek rehabilitation along Derry Dell Creek.

PROJECT DESCRIPTION

In an effort to prevent damage to private property and stop silt/debris from entering the creek, the incised creek channel at the top of the slope will be elevated to reconnect the creek to its flood plain elevation. The creek flow will be redirected to adjacent vegetative areas to improve overall water quality. Erosion will be repaired and the public outfall extended to the creek.

Derry Dell Bank Stabilization

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	20,000	90,000	0	32,000	0	0	0	52,000
Construction Management	0	0	90,000	0	30,000	0	0	0	30,000
Total Internal Expenses	0	20,000	180,000	0	62,000	0	0	0	82,000
EXTERNAL EXPENSES									
Public Involvement	0	0	5,000	0	5,000	0	0	0	5,000
Design and Engineering	0	75,000	150,000	0	75,000	0	0	0	150,000
Construction	0	0	500,000	0	500,000	0	0	0	500,000
Total External Expenses	0	75,000	655,000	0	580,000	0	0	0	655,000
Total Tigard Project Expense	0	95,000	835,000	0	642,000	0	0	0	737,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	95,000	835,000	0	642,000	0	0	0	737,000
Total Tigard Project Revenues	0	95,000	835,000	0	642,000	0	0	0	737,000



Copper Creek Bank Stabilization

(Durham Road and Copper Creek Drive)

LOCATION Southwest corner of Durham Road and Copper Creek Drive

PROJECT MANAGER Greg Berry, *Public Works*

FUNDING STATUS Fully Funded

PROJECT RESULTS Restored slope stability and improved storm drain outfall.



PROJECT NEED

Provide reconstructed storm drain outfall to protect the creek bank.

PROJECT DESCRIPTION

An existing public storm drain outfall is approximately 10 feet above a ravine causing erosion. If allowed to continue, it could result in the failure of a slope supporting the storm drain piping and permit the transportation of eroded materials downstream. The project will replace the existing outfall with an energy dissipater at the bottom of the ravine.

Copper Creek Bank Stabilization

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	24,000	6,000	12,000	0	0	0	0	36,000
Construction Management	0	0	6,000	12,000	0	0	0	0	12,000
Prior Life-to-Date	30,834	0	0	0	0	0	0	0	30,834
Total Internal Expenses	30,834	24,000	12,000	24,000	0	0	0	0	78,834
EXTERNAL EXPENSES									
Construction Management	0	0	0	20,000	0	0	0	0	20,000
Design and Engineering	0	30,000	0	10,000	0	0	0	0	40,000
Construction	0	0	160,000	120,000	0	0	0	0	120,000
Total External Expenses	0	30,000	160,000	150,000	0	0	0	0	180,000
Total Tigard Project Expense	30,834	54,000	172,000	174,000	0	0	0	0	258,834
REVENUE FUNDING SOURCE									
Stormwater Fund	30,834	54,000	172,000	174,000	0	0	0	0	258,834
Total Tigard Project Revenues	30,834	54,000	172,000	174,000	0	0	0	0	258,834



Storm Facility Reconstruction

(Greenfield Drive near Pine View)

LOCATION	Greenfield Drive near Pine View
PROJECT MANAGER	To Be Determined, <i>Public Works</i>
FUNDING STATUS	Fully Funded
PROJECT RESULTS	Restored facility function.

PROJECT NEED

Restore stormwater facility function.

PROJECT DESCRIPTION

The project involves the reconstruction/retrofit of an existing stormwater quality facility that has failed. The project will reconstruct the facility to meet original design intent and to improve maintenance.

Storm Facility Reconstruction

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	0	0	0	15,000	0	0	0	15,000
Construction Management	0	0	0	0	18,000	0	0	0	18,000
Total Internal Expenses	0	0	0	0	33,000	0	0	0	33,000
EXTERNAL EXPENSES									
Design and Engineering	0	0	0	0	75,000	0	0	0	75,000
Construction	0	0	0	0	250,000	0	0	0	250,000
Total External Expenses	0	0	0	0	325,000	0	0	0	325,000
Total Tigard Project Expense	0	0	0	0	358,000	0	0	0	358,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	0	0	0	358,000	0	0	0	358,000
Total Tigard Project Revenues	0	0	0	0	358,000	0	0	0	358,000



Main Street Storm Rehabilitation

(Fanno Creek)

LOCATION Main Street Bridge

PROJECT MANAGER To Be Determined, *Public Works*

FUNDING STATUS Fully Funded

PROJECT RESULTS Outfalls which meet BMPs and also reduce maintenance costs.

PROJECT NEED

Upgrade multiple stormwater outfalls.

PROJECT DESCRIPTION

The project will upgrade functional stormwater outfalls along Fanno Creek to meet Best Management Practices (BMPs) and abandon inactive stormwater outfalls. The city is partnering with CWS to provide slope beautification at the time this work is completed.

Main Street Storm Rehabilitation

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	0	0	0	0	25,000	10,000	0	35,000
Construction Management	0	0	0	0	0	25,000	10,000	0	35,000
Total Internal Expenses	0	0	0	0	0	50,000	20,000	0	70,000
EXTERNAL EXPENSES									
Design and Engineering	0	0	0	0	0	150,000	5,000	0	155,000
Construction	0	0	0	0	0	400,000	100,000	0	500,000
Total External Expenses	0	0	0	0	0	550,000	105,000	0	655,000
Total Tigard Project Expense	0	0	0	0	0	600,000	125,000	0	725,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	0	0	0	0	600,000	125,000	0	725,000
Total Tigard Project Revenues	0	0	0	0	0	600,000	125,000	0	725,000



Pacific Highway Median WQF Project

LOCATION	Pacific Highway near Royalty Parkway
PROJECT MANAGER	Kim McMillan, <i>Public Works</i>
FUNDING STATUS	Fully Funded
PROJECT RESULTS	Reduction of negative impact from stormwater runoff from 61 acres of currently untreated residential and commercial areas into the Tualatin River. It will also provide beautification of the highway with added vegetation.

PROJECT NEED

Runoff from Pacific Highway requires stormwater treatment.

PROJECT DESCRIPTION

Clean Water Services is partnering with ODOT and the City of Tigard to create water quality treatment in the existing landscape medians in Pacific Highway.

PROJECT FUNDING

The City of Tigard is sharing the construction costs with Clean Water Services. Clean Water Services will be directly paying their portion of the project.

Pacific Highway Median WQF Project

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	0	0	5,000	0	0	0	0	5,000
Total Internal Expenses	0	0	0	5,000	0	0	0	0	5,000
EXTERNAL EXPENSES									
Construction	0	0	0	62,850	0	0	0	0	62,850
Total External Expenses	0	0	0	62,850	0	0	0	0	62,850
Total Tigard Project Expense	0	0	0	67,850	0	0	0	0	67,850
REVENUE FUNDING SOURCE									
Stormwater Fund	0	0	0	67,850	0	0	0	0	67,850
Total Tigard Project Revenues	0	0	0	67,850	0	0	0	0	67,850



Burlcrest Drive Stormwater Improvements

(Summer Crest Drive to 121st Avenue)

LOCATION Burlcrest (Summer Crest Drive to 121st Avenue)

PROJECT MANAGER To Be Determined, *Public Works*

FUNDING STATUS Fully Funded

PROJECT RESULTS Elimination of excessive stormwater flows into the street along Burlcrest Drive.

PROJECT NEED

Provide an adequate stormwater drainage system.

PROJECT DESCRIPTION

The project will construct a stormwater drainage system where none currently exists along Burlcrest Drive via a connection to the existing stormwater system on 121st Avenue.

Burlcrest Drive Stormwater Improvements

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	0	0	0	0	15,000	15,000	0	30,000
Construction Management	0	0	0	0	0	0	30,000	0	30,000
Total Internal Expenses	0	0	0	0	0	15,000	45,000	0	60,000
EXTERNAL EXPENSES									
Public Involvement	0	0	0	0	0	15,000	0	0	15,000
Design and Engineering	0	0	0	0	0	150,000	0	0	150,000
Construction	0	0	0	0	0	0	500,000	0	500,000
Total External Expenses	0	0	0	0	0	165,000	500,000	0	665,000
Total Tigard Project Expense	0	0	0	0	0	180,000	545,000	0	725,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	0	0	0	0	180,000	545,000	0	725,000
Total Tigard Project Revenues	0	0	0	0	0	180,000	545,000	0	725,000



Canterbury Lane Storm Sewer Upgrade (106th Avenue to Pacific Highway)

LOCATION	Greenfield Drive near Pine View
PROJECT MANAGER	To Be Determined, <i>Public Works</i>
FUNDING STATUS	Fully Funded
PROJECT RESULTS	Reduction of excessive stormwater flows.

PROJECT NEED

Provide a stormwater drainage system.

PROJECT DESCRIPTION

The project will upgrade the system along 106th Avenue to Pacific Highway.

Canterbury Lane Storm Sewer Upgrade

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	0	0	0	15,000	10,000	0	0	25,000
Construction Management	0	0	0	0	0	25,000	0	0	25,000
Total Internal Expenses	0	0	0	0	15,000	35,000	0	0	50,000
EXTERNAL EXPENSES									
Public Involvement	0	0	0	0	5,000	0	0	0	5,000
Design and Engineering	0	0	0	0	90,000	0	0	0	90,000
Construction	0	0	0	0	0	300,000	0	0	300,000
Total External Expenses	0	0	0	0	95,000	300,000	0	0	395,000
Total Tigard Project Expense	0	0	0	0	110,000	335,000	0	0	445,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	0	0	0	110,000	335,000	0	0	445,000
Total Tigard Project Revenues	0	0	0	0	110,000	335,000	0	0	445,000



Ridgefield Lane Water Quality Facility Repair/Stabilization

LOCATION Ridgefield WQ Facility

PROJECT MANAGER To Be Determined, *Public Works*

FUNDING STATUS Fully Funded

PROJECT RESULTS A functional facility.

PROJECT NEED

Restore facility functionality.

PROJECT DESCRIPTION

This project will repair the facility to restore water quality treatment and rebuild a failing retaining wall.

Ridgefield Lane Water Quality Facility Repair/Stabilization

	Actual 2013	Projected 2014	Revised 2014	2015	2016	2017	2018	2019	Project Total
INTERNAL EXPENSES									
Project Management	0	0	0	0	10,000	10,000	0	0	20,000
Construction Management	0	0	0	0	0	20,000	0	0	20,000
Total Internal Expenses	0	0	0	0	10,000	30,000	0	0	40,000
EXTERNAL EXPENSES									
Design and Engineering	0	0	0	0	75,000	0	0	0	75,000
Construction	0	0	0	0	0	250,000	0	0	250,000
Total External Expenses	0	0	0	0	75,000	250,000	0	0	325,000
Total Tigard Project Expense	0	0	0	0	85,000	280,000	0	0	365,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	0	0	0	85,000	280,000	0	0	365,000
Total Tigard Project Revenues	0	0	0	0	85,000	280,000	0	0	365,000

Stormwater System Project Locations

CITYWIDE PROJECTS 94001 and 94013

