

Storm System

Page	Project	Project Name	Projected 2010-11	2011–12	2012–13	2013–14	2014–15	2015–16	Projected Totals
32	94001	Storm Drainage Major Maintenance	\$50,000	\$150,000	\$50,000	\$50,000	\$50,000	0	\$350,000
33	94011	Culvert Improvements – Walnut Street (Derry Dell/Fanno Creek)	\$51,122	\$157,071	\$111,143	0	0	0	\$319,336
34	94022	Copper Creek Bank Stabilization	\$46,083	\$29,667	\$145,000	0	0	0	\$220,750
35	94023	Greenfield Storm Drain Replacement	\$56,000	\$132,000	0	0	0	0	\$188,000
36	94024	103 rd Avenue & McDonald Street Storm System Improvement	0	\$190,500	0	0	0	0	\$190,500
37	94025	Storm Facility Replacement – Greenfield Drive near Pine View	0	\$90,500	0	0	0	0	\$90,500
Total Funded			\$203,205	\$749,738	\$306,143	\$50,000	\$50,000	0	\$1,359,086

HOW STORM WATER PROJECTS ARE FUNDED

Storm water projects are funded with fees paid by Tigard residential and non-residential customers. These rates are set by Clean Water Services (CWS) and the city.

Storm Drainage Major Maintenance

This yearly program addresses minor storm drainage problems requiring more than the normal maintenance efforts provided by the Public Works Department. The program includes projects located at various locations throughout the city.



Storm Drainage Major Maintenance				Location Citywide	Funding Status Fully Funded	Project Manager(s) Ted Kyle Public Works			
	Actual 2009–10	Revised 2010–11	Projected 2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	PROJECTED TOTAL
EXTERNAL EXPENSES									
Construction	0	\$50,000	\$50,000	\$150,000	\$50,000	\$50,000	\$50,000	0	\$350,000
TOTAL	0	\$50,000	\$50,000	\$150,000	\$50,000	\$50,000	\$50,000	0	\$350,000
INTERNAL EXPENSES									
Project Management	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
TOTAL PROJECT EXPENSE	0	\$50,000	\$50,000	\$150,000	\$50,000	\$50,000	\$50,000	0	\$350,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	\$50,000	\$50,000	\$150,000	\$50,000	\$50,000	\$50,000	0	\$350,000
TOTAL	0	\$50,000	\$50,000	\$150,000	\$50,000	\$50,000	\$50,000	0	\$350,000
OTHER REVENUE SOURCE									
TOTAL	0	0	0	0	0	0	0	0	0

Culvert Improvements – Walnut Street (Derry Dell/Fanno Creek)

This project replaces the existing culvert on Walnut Street at Derry Dell Creek. The new, larger culvert will increase capacity, provide fish passage and enhance water quality. Funding will be used for hydraulic analysis, hydraulic study and preliminary design.



Culvert Improvements – Walnut Street		Location Walnut Street (Derry Dell/Fanno Creek)			Funding Status Fully Funded			Project Manager(s) Ted Kyle Public Works	
	Actual 2009–10	Revised 2010–11	Projected 2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	PROJECTED TOTAL
EXTERNAL EXPENSES									
Design and Engineering	0	\$85,000	\$48,836	\$42,500	0	0	0	0	\$91,336
Construction	0	0	0	\$100,000	\$100,000	0	0	0	\$200,000
TOTAL	0	\$85,000	\$48,836	\$142,500	\$100,000	0	0	0	\$291,336
INTERNAL EXPENSES									
Project Management	0	\$4,444	\$2,286	\$4,571	\$1,143	0	0	0	\$8,000
Construction Management	0	0	0	\$10,000	\$10,000	0	0	0	\$20,000
TOTAL	0	\$4,444	\$2,286	\$14,571	\$11,143	0	0	0	\$28,000
TOTAL PROJECT EXPENSE	0	\$89,444	\$51,122	\$157,071	\$111,143	0	0	0	\$319,336
REVENUE FUNDING SOURCE									
Stormwater Fund	0	\$89,444	\$51,122	\$157,071	\$111,143	0	0	0	\$319,336
TOTAL	0	\$89,444	\$51,122	\$157,071	\$111,143	0	0	0	\$319,336
OTHER REVENUE SOURCE									
TOTAL	0	0	0	0	0	0	0	0	0

Copper Creek Bank Stabilization

The banks of Copper Creek at the southwest corner of Durham Road and Copper Creek Drive are eroded. The erosion resulted from heavy rain and high stream flow from a 36-inch culvert under the streets. This project funds preliminary design and wetland permitting in FY 2010–2011 and final design and construction in FY 2011–2012. The work will include bank stabilization, culvert repair, energy dissipation and planting required by wetland permits.



Copper Creek Bank Stabilization		Location SW corner of Durham Road and Copper Creek Drive				Funding Status Fully Funded		Project Manager(s) Ted Kyle Public Works	
	Actual 2009–10	Revised 2010–11	Projected 2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	PROJECTED TOTAL
EXTERNAL EXPENSES									
Design and Engineering	0	\$30,000	\$40,250	0	0	0	0	0	\$40,250
Construction	0	0	0	\$25,500	\$130,000	0	0	0	\$155,500
TOTAL	0	\$30,000	\$40,250	\$25,500	\$130,000	0	0	0	\$195,750
INTERNAL EXPENSES									
Project Management	0	\$5,556	\$5,833	\$4,167	0	0	0	0	\$10,000
Construction Management	0	0	0	0	\$15,000	0	0	0	\$15,000
TOTAL	0	\$5,556	\$5,833	\$4,167	\$15,000	0	0	0	\$25,000
TOTAL PROJECT EXPENSE	0	\$35,556	\$46,083	\$29,667	\$145,000	0	0	0	\$220,750
REVENUE FUNDING SOURCE									
Stormwater Fund	0	\$35,556	\$46,083	\$29,667	\$145,000	0	0	0	\$220,750
TOTAL	0	\$35,556	\$46,083	\$29,667	\$145,000	0	0	0	\$220,750
OTHER REVENUE SOURCE									
TOTAL	0	0	0	0	0	0	0	0	0

Greenfield Storm Drain Replacement

A storm drainage pipe crossing Greenfield Drive, 600 feet south of Morningstar Drive, is cracked and potentially collapsed. The “slip lining” method will be used to pull a new pipe into the existing pipe. This will minimize excavation and restoration work.



Greenfield Storm Drain Replacement			Location Greenfield Drive		Funding Status Fully Funded			Project Manager(s) Ted Kyle Public Works	
	Actual 2009–10	Revised 2010–11	Projected 2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	PROJECTED TOTAL
EXTERNAL EXPENSES									
Construction	0	\$50,000	\$33,333	\$100,000	0	0	0	0	\$133,333
TOTAL	0	\$50,000	\$33,333	\$100,000	0	0	0	0	\$133,333
INTERNAL EXPENSES									
Project Management	0	\$10,667	\$12,000	0	0	0	0	0	\$12,000
Construction Management	0	\$13,333	\$10,667	\$32,000	0	0	0	0	\$42,667
TOTAL	0	\$24,000	\$22,667	\$32,000	0	0	0	0	\$54,667
TOTAL PROJECT EXPENSE	0	\$74,000	\$56,000	\$132,000	0	0	0	0	\$188,000
REVENUE FUNDING SOURCE									
Stormwater Fund	0	\$74,000	\$56,000	\$132,000	0	0	0	0	\$188,000
TOTAL	0	\$74,000	\$56,000	\$132,000	0	0	0	0	\$188,000
OTHER REVENUE SOURCE									
TOTAL	0	0	0	0	0	0	0	0	0

103rd Avenue & McDonald Street Storm System Improvement

The storm water system along 103rd Avenue is undersized and cannot carry the water from intense rain storms. The existing system is a corrugated metal pipe that is rusting through. New pipe is needed in order to carry water that is currently running down the street and through neighboring properties.



Storm System Improvement		Location 103rd Avenue & McDonald Street				Funding Status Fully Funded		Project Manager(s) Ted Kyle Public Works	
	Actual 2009 – 10	Revised 2010 – 11	Projected 2010 – 11	2011 – 12	2012 – 13	2013 – 14	2014 – 15	2015 – 16	PROJECTED TOTAL
EXTERNAL EXPENSES									
Design and Engineering	0	0	0	\$15,000	0	0	0	0	\$15,000
Construction	0	0	0	\$150,500	0	0	0	0	\$150,500
TOTAL	0	0	0	\$165,500	0	0	0	0	\$165,500
INTERNAL EXPENSES									
Project Management	0	0	0	\$10,000	0	0	0	0	\$10,000
Construction Management	0	0	0	\$15,000	0	0	0	0	\$15,000
TOTAL	0	0	0	\$25,000	0	0	0	0	\$25,000
TOTAL PROJECT EXPENSE	0	0	0	\$190,500	0	0	0	0	\$190,500
REVENUE FUNDING SOURCE									
Stormwater Fund	0	0	0	\$190,500	0	0	0	0	\$190,500
TOTAL	0	0	0	\$190,500	0	0	0	0	\$190,500
OTHER REVENUE SOURCE									
TOTAL	0	0	0	0	0	0	0	0	0

Storm Facility Replacement – Greenfield Drive near Pine View

This project retrofits a storm water quality facility so that storm water is not released onto the downhill back yards of the neighbors.



Storm Facility Replacement		Location Greenfield Drive near Pine View				Funding Status Fully Funded			Project Manager(s) Ted Kyle Public Works	
	Actual 2009–10	Revised 2010–11	Projected 2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	PROJECTED TOTAL	
EXTERNAL EXPENSES										
Design and Engineering	0	0	0	\$10,000	0	0	0	0	\$10,000	
Construction	0	0	0	\$70,500	0	0	0	0	\$70,500	
TOTAL	0	0	0	\$80,500	0	0	0	0	\$80,500	
INTERNAL EXPENSES										
Project Management	0	0	0	\$5,000	0	0	0	0	\$5,000	
Construction Management	0	0	0	\$5,000	0	0	0	0	\$5,000	
TOTAL	0	0	0	\$10,000	0	0	0	0	\$10,000	
TOTAL PROJECT EXPENSE	0	0	0	\$90,500	0	0	0	0	\$90,500	
REVENUE FUNDING SOURCE										
Stormwater Fund	0	0	0	\$90,500	0	0	0	0	\$90,500	
TOTAL	0	0	0	\$90,500	0	0	0	0	\$90,500	
OTHER REVENUE SOURCE										
TOTAL	0	0	0	0	0	0	0	0	0	