



City of Winters Storm Water Management Planning
WRA Project Fiscal Year 2016-2017

PROJECT SUMMARY

The City of Winters (City) used WRA project funds to develop a comprehensive storm water management plan in accordance with municipal separate storm sewer system (MS4) requirements. The City is currently covered under a waiver from NPDES General Permit and Waste Discharge Requirements for Storm Discharges from Small Municipal Separate Storm Sewer Systems (MS4) Order No. 2013-0001-DWQ due, in part, to its small population size.

Using WRA project funds, the City was able to take the initial steps to develop a storm water management plan. A portion of the plan focused on identifying potential pollution risks and developing a City data base and base map to monitor the most potentially significant sources.

Another portion of the plan helped to develop a comprehensive education and monitoring program to encourage reductions in fertilizer and herbicide use, and increase awareness of automobile washing and other activities that may adversely impact water quality.

Project tasks:

The City of Winters worked with consultants, from Wallace Kuhl Associates to prepare a comprehensive storm water management plan that will include the following tasks:

- Meet with City staff to obtain base storm water utility maps
- Conduct reconnaissance level site visits
- Prepare a detailed map layer showing potential problem dischargers
- Work with City staff to develop public education plan
- Work with City Staff to begin implementation of public education plan

Project Schedule: The above Scope of work began February 2017 was completed no later than June 30, 2017

Project Budget (WRA/Local = Total): \$ 15,000/\$12,000 = \$27,000

The goal of this project was to develop a comprehensive storm water management plan. Primary elements of the plan are listed as tasks below with budgets for each.

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Michael Sebastian

CITY MANAGER

John W. Donlevy, Jr.

Task 1) Meet with City staff to obtain base storm water utility maps

This task included a two-hour meetings to obtain utility maps in GIS or CAD format there was also a discussion to determine other files needed from City to facilitate project completion. Review and revisions of the City's Draft Stormwater Municipal Code

Budget \$1000

Task 2) Conduct reconnaissance level site visits

This task included use of existing City maps and aerial photographic research tools such as Google Earth to flag target areas within the City. In addition, this task consultant and City staff conducted a drive by reconnaissance of target areas within City limits where commercial land uses might suggest problems. Including Storm water outflow areas within the City

Budget \$3,000

Task 3) Prepare a detailed map layer showing potential problem dischargers

Using the City-supplied GIS base map, the City consultant will prepare a map layer of potential problem discharge areas will be prepared and attached to the City map. The map will also be incorporated into the overall storm water plan. The map detail also provided a colored detail which clearly showed the specific areas of town and their storm water discharge points

Budget \$4000

Task 4 Work with City staff to develop a public storm water education plan

The City staff and City consultant team developed a public education plan that will include components on household herbicide and pesticide use, home automobile repair, handling of household cleaner and use of fertilizers

Budget \$2000

Task 5) Work with City Staff to begin implementation of public education plan

The City Staff and City consultant began implementation of the public education plan by designing a flier to be mailed out with utility bills. Future implementation may also include signage near the City outfalls, sponsored artwork to be completed by Winters public school children and framing a possible grant request for trash removal devises at the City outfalls. There was also good discussion regarding partnering with other groups/agencies to continue outreach in the classrooms and community with projects such as the creation of bioswales at outflows. Creek Clean up events and the City's Salmon Festival.

Budget \$2020

City staff time that was involved with the project was estimated at 40 hours which totaled



**Total billed by consultant and reimbursed by WRA is \$12, 020.
City Staff time was estimated at 50 hours for a total of \$3000 in matching funds provided.**

The completion of these tasks will enable the City to move to the next level towards implementing Best Management Practices and working towards meeting the requirements of MS4 permitting. The City anticipates we will meet the threshold for becoming an MS4 when we reach a population of 10,000, which could be within the next 4-5 years.

The City appreciates the WRA support to give us a great start towards meeting the demands that being an MS4 will require and in the meantime moving the City forward in improving stormwater quality in our local Putah Creek waterway. The ability to be proactive rather than reactive is always the better way to manage City operations.

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