



DATE: February 7, 2017

TO: Mayor and City Council

FROM: Director of Utilities & Environmental Services

SUBJECT Trash Capture Device Installation on Patrick Avenue: Approval of Plans and Specifications, and Call for Bids

RECOMMENDATION

That Council adopts the attached resolution approving the plans and specifications for a continuous deflective separator (CDS) trash capture device installation in the existing storm drain box on Patrick Avenue, and calling for bids to be received on February 28, 2017.

SUMMARY

This project will install a CDS unit with bypass diversion box. The CDS unit will be installed at Patrick Avenue for trash capture from the storm water system as part of the City's trash reduction mandate from the San Francisco Regional Water Quality Control Board (Water Board). The City is required to reduce trash from the storm water system by 100% by 2022. This project will be funded by the Environmental Protection Agency (EPA) Water Quality Improvement Fund grant awarded to the City in January 2015, and will help the City to reduce its water borne trash by approximately 5%. The additional 5% will bring the City's total reduction to 84%.

BACKGROUND

The Water Board adopted the current Municipal Regional Stormwater Permit (MRP 2.0) in December 2015. The MRP 2.0 covers storm water discharges from municipalities and local agencies (also called permittees) in Alameda, Contra Costa, San Mateo, and Santa Clara counties, and the cities of Fairfield, Suisun, and Vallejo. Under the MRP 2.0, permittees are required to reduce trash from entering the waters of the state by 100% by the year 2022 from each jurisdiction's Municipal Separate Storm Sewer Systems (MS4s). This project will install a large trash capture device in the existing storm drain box on Patrick Avenue to treat storm water to partially meet the Water Board's requirement. In January 2015, USEPA Region 9 awarded the City \$800,000 to fund the Hayward Youth-Based Trash Capture, Reduction and Watershed Education Project. The four-year project includes a school curriculum for first through twelfth grade students for watershed and trash pollution awareness education, as well as engineered trash reduction facilities with the installation of large trash capture devices as a demonstration of the City's commitment to trash reduction and compliance with the Water Board mandate.

For further background regarding the EPA grant project and the City's trash reduction mandate please refer to the Council Sustainability Committee reports entitled:

- [USEPA Region IX Trash Reduction Grant \(March 23, 2015\)](#)
- [Update on EPA Trash Reduction Grant \(December, 10, 2015\)](#)
- [Municipal Regional Permit 2.0 \(March 14, 2016\)](#)

DISCUSSION

The installation of the CDS trash capture unit is part of the Hayward Youth-Based Trash Capture, Reduction and Watershed Education Project. In 2015, City staff evaluated various locations and selected the Patrick Avenue location. The location on Patrick Avenue is near the Alameda County's flood control channel, a strategic location to install a trash capture device since it encompasses a large drainage for trash reduction and can be installed for the project budget. This selection was also made with input from the Maintenance Services Department which regularly removes large amounts of trash in the storm system in this area and because this is a main outlet just before storm water is discharged to the County flood control channel, which is part of the Flood Control Agency's MS4s. As a result, a large trash capture device at this location can capture trash from approximately 164 acres of storm water runoff area.

As noted above, MRP 2.0, requires the City to reduce trash from entering the waters of the State by 100% by 2022. To date, a reduction of 79% has been achieved. The additional 5% will bring the City's total reduction to 84%.

The City currently has a large CDS unit manufactured by Contech Stormwater Solutions (Contech) at the intersection of Tyrell Avenue and West Tennyson Road, which was installed in 2012. Contech is the only company that manufactures this type of device using the CDS technology. Our experience with this unit has been successful both for trash capture and for maintenance ease. Staff believes that the Contech CDS unit is the most appropriate device to capture the trash from storm water runoff at Patrick Avenue. If approved, staff will purchase the Contech CDS unit directly from Contech and release a call for competitive bids to contractors to install the unit. Installation at the Patrick location will entail excavation in the street, installing the diversion box and CDS unit in-line with the storm drain and backfilling the area, and repairing the street to pre-construction conditions. Prior to backfilling and street repair, the CDS unit will be leak-tested to assure water tightness at all the joints.

ECONOMIC AND FISCAL IMPACT

The estimated project costs are as follows:

Design and Construction Administration - City Staff	\$15,000
Testing and Inspection Services (Estimated)	\$15,000
Construction Contract (Estimated)	\$225,000
Trash Capture Device (Contech)	\$90,000
Administrative Change Order (Estimated)	<u>\$25,000</u>
Total:	\$370,000

The EPA Region 9 grant awarded the City with \$800,000, of which \$740,000 is allocated to the purchase and installation of CDS units.

SUSTAINABILITY FEATURES

The CDS unit, along with the existing trash capture devices in the City's storm drain system, will help to limit the pollutants that enter local creeks and the San Francisco Bay.

PUBLIC CONTACT

Prior to and during construction, notices will be provided to affected residents, property, and business owners to inform them of the nature and purpose of the work, potential impacts, work schedule and City contact for additional information. In addition, staff will work closely with businesses and schools, like St. Bede Catholic School, located on Patrick Avenue, to minimize potential impacts.

NEXT STEPS

Should Council approve this project, staff will purchase the CDS unit from Contech and advertise the construction project for public bidding. Staff will return to Council for award of the construction contract after bids have been received and reviewed. The following schedule has been developed for this project:

Receive Bids	February 28, 2017
Award Construction Contract	March 21, 2017
Construction Completion	September 2017

Additional trash capture devices will be needed to achieve a 100% reduction in trash entering the waters of the State by 100% by 2022. Staff is investigating the feasibility of installing a CDS unit in West Street; however, this project will be more complicated as it will be on land owned by the Alameda County Flood Control District and it will require relocation of a City water line. The West Street CDS unit will be larger than the one on Patrick Avenue. The added complexity of this project and the larger size will make the installation at West Street more expensive. Furthermore, staff will need to identify funding in addition to the remaining grant funds before this project can move forward.

Prepared by: Elisa Wilfong, Water Pollution Control Administrator
Erik Pearson, Environmental Services Manager

Recommended by: Alex Ameri, Director of Utilities & Environmental Services

Approved by:

A handwritten signature in black ink, appearing to read 'K. McAdoo', written in a cursive style.

Kelly McAdoo, City Manager