



DATE: May 4, 2021

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT Adopt a Resolution Authorizing the City Manager to Execute a Contract with Revel Environmental Manufacturing Inc., for Purchase and Installation of Small Trash Capture Devices in Various Locations Throughout the City in an Amount Not-to-Exceed \$430,000

RECOMMENDATION

That Council adopts the attached resolution (Attachment II) authorizing the City Manager to negotiate and execute a contract with Revel Environmental Manufacturing Inc., to purchase and install small trash capture devices for stormwater compliance in an amount not-to-exceed \$430,000.

SUMMARY

To comply with the Municipal Regional Permit (MRP), the regulatory stormwater protection program of the San Francisco Regional Water Quality Control Board (Water Board), the City must install trash capture devices to treat or filter stormwater, preventing trash from entering the waters of the state. Staff solicited quotes for the purchase and installation of small trash capture devices in storm drain inlets in various locations throughout the City and received a quote from one contractor. Staff recommends Revel Environmental Manufacturing Inc., (REM) based on the City’s previous positive experience contracting with the firm. REM has demonstrated professionalism, knowledge of trash devices, and good quality devices within the City’s storm drain system over the past few years. If approved, staff will use funds awarded to the City through the EPA’s Water Quality Improvement Fund Grant, to purchase and install the small trash capture devices. The EPA grant funds are required to be spent by October 2021.

BACKGROUND

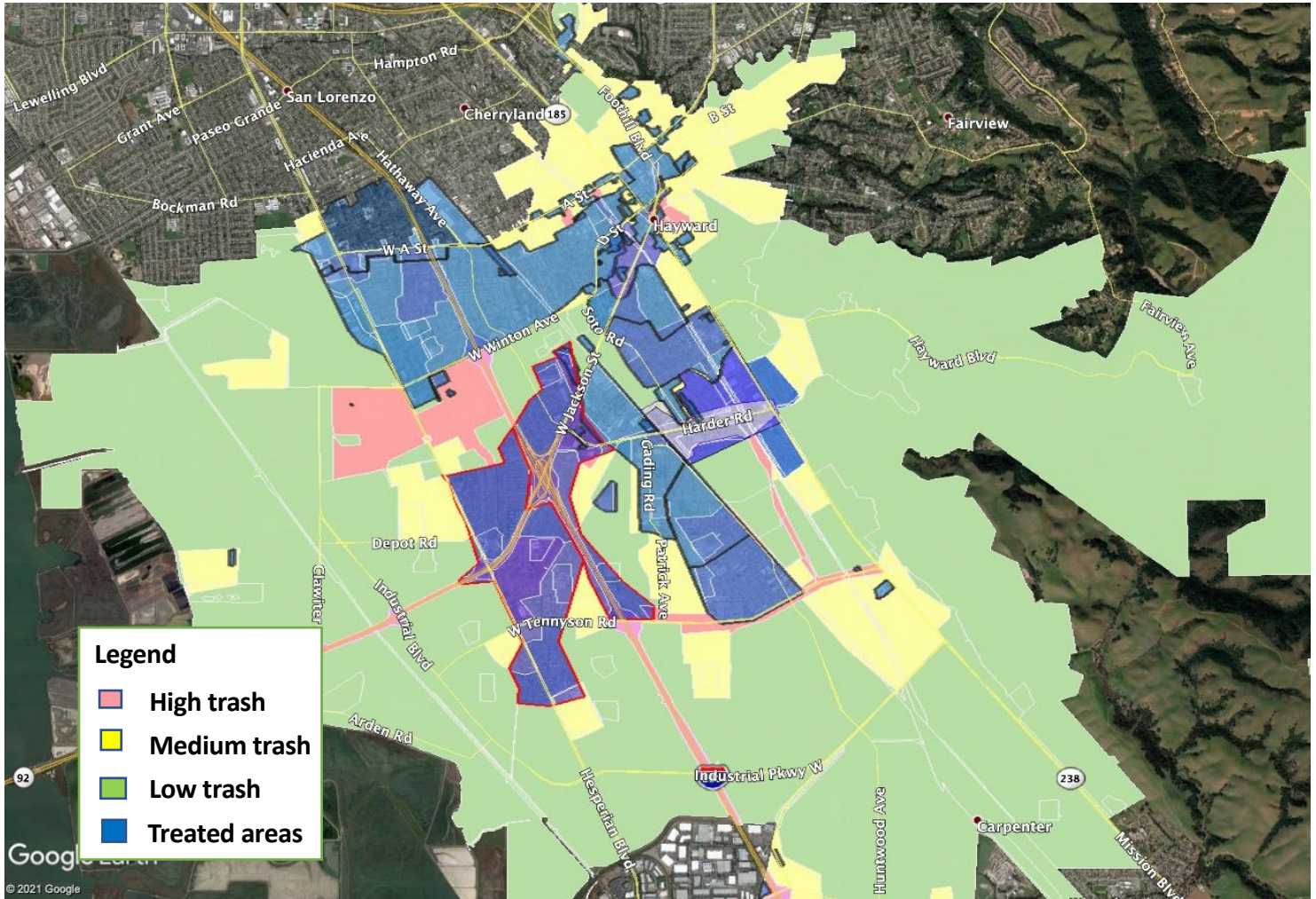
The National Pollution Discharge Elimination System (NPDES) program was established in 1972 by the Federal Clean Water Act. The NPDES program was amended in 1986 to regulate stormwater runoff and established a permitting structure for municipal discharge to the waters of the state. From 1990 to 2009, each municipality in the Bay Area was regulated under countywide stormwater permits with individual requirements specific to each county.

On October 14, 2009, the first regional MRP stormwater permit was adopted by the Water Board. The MRP regulated municipalities within the counties of Alameda, Contra Costa, Santa Clara, San Mateo as well as the cities of Fairfield, Suisun, and Vallejo and the Vallejo Sanitation and Flood Control District. Municipalities and local agencies included in the MRP are referred to as 'Permittees'. The MRP is renewed about every five years and is currently on its second cycle (MRP 2.0). Provision C.10 of the MRP includes the trash reduction requirements for Permittees to reduce all trash from stormwater systems to waters of the state by 100%, by the year 2022. The current MRP 2.0 is being revised as MRP 3.0, which is expected to be adopted by the Water Board later this year.

In 2014, staff submitted a trash capture and education proposal for the EPA's competitive Water Quality Improvement Fund Grant program. The City was awarded the competitive grant in 2015 in the amount of \$800,000 to install trash capture devices, reducing trash pollution from entering the waters of the state from the City's storm drain system and managing a trash pollution education program for 1st through 12th grade youth in Hayward. In 2018, a large trash capture device was installed on Patrick Avenue and the educational program was completed, both of which were paid for with the grant funds. The remaining trash capture portion of the project has been delayed due to challenges with finding a suitable location for a large trash capture device. Previous locations have exceeded the grant's budget so the EPA has granted the City permission to use the remaining grant funds for small trash capture devices.

The City currently has a 62% credit for trash reduction and is behind schedule for compliance. Included in the 62% are credits the City receives for trash reduction from trash capture devices in the storm drain infrastructure, for product bans such as the City's plastic bag and polystyrene bans, and for on-land pick up of trash in creeks and shorelines. Currently, the City owns more than 200 small trash capture devices installed in storm drain catch basins and two large underground trash capture devices installed in storm drainpipes located at Patrick Avenue and Tennyson Road. In addition, the City has begun collaborating with Caltrans to install two more large trash capture devices, treating over 800 acres along Interstate 880 and Highway 92. Figure 1 shows the areas currently treated and the Caltrans collaboration areas both shown in blue.

Figure 1: Areas of Trash Generation and Current Treatment



The yellow and pink highlighted areas are the remaining areas required to be treated for trash (yellow are medium generating trash areas and pink are high generating trash areas). More trash capture devices need to be installed in the City’s storm drain system to comply with the MRP’s trash reduction mandate. The remaining areas required to be treated for trash include areas designated as disadvantaged communities according to the California Environmental Protection Agency (CalEPA), particularly the south and east areas of Hayward. Installation of trash capture devices in these areas would support Council’s intention to equitably allocate resources through capital improvement projects to historically underserved areas.

DISCUSSION

To treat the remaining trash generation areas, staff analyzed possible locations for large trash capture devices, but no suitable locations were found. The alternative is to treat the areas using a large number of small trash capture devices installed within storm drain inlets along

the curb. Figures 2 and 3 illustrate an example of a small trash capture device and how it fits within an inlet.

Figure 2: Small Trash Capture Device

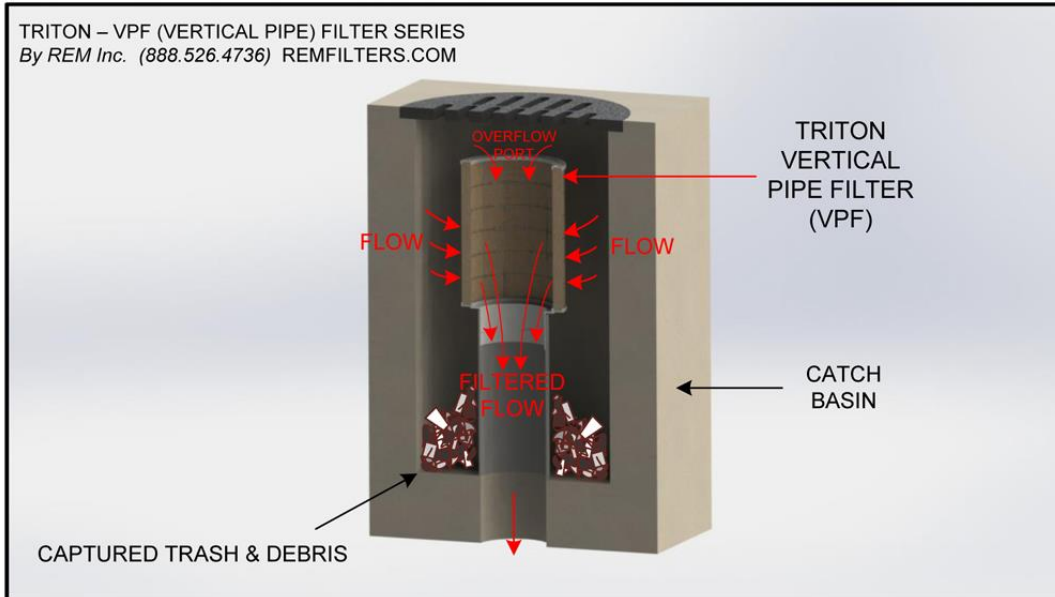


Figure 3: Small Trash Capture Device within Storm Drain



The MRP 3.0 draft is projected to be adopted July 1, 2021. As currently drafted, the trash reduction requirements are revised to extend the 100% trash reduction compliance to July 1, 2025; however, the draft also includes a change in the calculation of trash reduction credits,

which eliminates credit from product bans such as polystyrene takeout containers and plastic bags. While the City will need to make up credit lost from the product ban credits received in the past, the mandate for 100% trash reduction may be extended from 2022 to 2025 under MRP 3.0. The small trash capture devices installed with this contract will give the City approximately 30% credit toward our trash reduction goal. Table 1 below shows staff's plan to meet the mandate by 2025.

Table 1. Plan to Meet 100% Trash Reduction Requirement by 2025.

| Year | Compliance Action | Credit |
|-----------|---|-------------|
| 2020 | 200 small devices in catch basins, 2 large trash capture devices, 4 large screens in creeks | 62% |
| 2021 | If MRP 3.0 is approved as drafted, credit for product bans will be removed. | -10% |
| 2021-2023 | Large Trash Capture Projects at Arf Avenue and Tennyson Road (Collaboration with Caltrans) | +10% |
| 2021 | Small trash capture devices throughout City | +30% |
| 2022 | Large Trash Capture Project at Industrial Blvd. near Pacific | +5% |
| 2023-2024 | Additional Large Trash Capture projects | +2-5% |
| | Total | 100% |

Staff released a Request for Quotes (RFQ) seeking a contractor who can identify appropriate locations for small devices throughout the City and install the devices. Staff received one quote. Staff recommends REM based on a well-organized quote, the cost of the devices, and their ability to install the devices by October 2021.

ENVIRONMENTAL REVIEW

The proposed project is categorically exempt from environmental review in accordance with the California Environmental Quality Act (CEQA) pursuant to Section 15301, Class 1 (Minor Alteration of Existing Facilities) and Section 15302, Class 2 (Replacement or Reconstruction of Existing Facilities) of the CEQA Guidelines.

ECONOMIC IMPACT

There will be some benefit to the local economy as installation of the projects will create short-duration construction jobs.

FISCAL IMPACT

The recommended contract to design and install the small trash capture devices in various locations throughout the City will be paid for with grant funds from the EPA's Water Quality Improvement program. The City will be responsible for maintaining the small trash capture devices including cleaning them periodically as with the other trash capture devices the City

owns. The annual cost to maintain each device is approximately \$130. While the total number of new devices is not yet known, the additional annual maintenance cost is expected to be less than \$100,000. Maintenance of the devices will be paid for from the Stormwater Fund and will not impact the General Fund.

STRATEGIC ROADMAP

This agenda item supports the Strategic Priority of Improve Infrastructure. Specifically, this item relates to the implementation of the following project(s):

Project 17: Meet regulatory requirements for zero trash in stormwater by installing trash capture devices

Project 17a: Install trash capture devices

SUSTAINABILITY FEATURES

Preventing pollution including trash from entering the storm drain system will benefit aquatic ecosystems and the health of the San Francisco Bay.

PUBLIC CONTACT

No public contact has been made regarding this agenda item. Prior to construction, notices will be provided to residents and businesses surrounding the project areas if needed. Public notices will address any transportation and other relevant information needed during construction.

NEXT STEPS

If Council approves, staff will complete and execute a contract with REM. In the next six months, staff will work with the contractor to finalize the installation locations for the small trash capture devices. Staff expects to complete the installation by September 2021 and receive reimbursement for the cost of the devices once the purchase and installation has been completed.

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Erik Pearson, Environmental Services Manager

Recommended by: Alex Ameri, Director of Public Works

Approved by:



Kelly McAdoo, City Manager