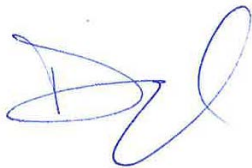


City of Calistoga

Staff Report

TO: Honorable Mayor and City Council Members
FROM: Derek Rayner, Deputy Public Works Director
VIA: Michael Kirn, Public Works Director/City Engineer
DATE: August 1, 2017
SUBJECT: Consideration of a Resolution Authorizing the Public Works Department to Submit a Letter to the State Water Resources Control Board Related to Stormwater Trash Regulations

APPROVAL FOR FORWARDING:



Dylan Feik, City Manager

1 **ISSUE:** Consideration of a Resolution authorizing the Public Works Department
2 to submit a letter to the State Water Resources Control Board related to
3 stormwater trash regulations.

4
5 **RECOMMENDATION:** Adopt Resolution

6
7 **BACKGROUND / DISCUSSION:** The City is required to operate our storm drain
8 system in compliance with our Small Municipal Separate Storm Sewer Systems
9 (MS4) Permit (referred to as “general permit”), as regulated by the San Francisco
10 Bay Regional Water Quality Control Board (Water Quality Order No 2013-0001-
11 DWQ).

12
13 As part of our general permit, the City of Calistoga, along with 22 other
14 municipalities in the northern portion of San Francisco Bay area are subject to
15 new trash reduction measures as of June 1, 2017. In response, each jurisdiction
16 is required to submit in writing to the State Water Board by September 1, 2017
17 whether they have elected to comply with the Trash Amendments using a **Track**
18 **1 or Track 2** compliance approach.
19

20 Under the **Track 1** approach jurisdictions will meet 100% of their trash reduction
21 requirements utilizing trash full capture systems (FCSs), while the **Track 2**
22 approach allows jurisdictions to use FCSs in combination with other control
23 measures that are equivalent to FCS's removal. FCSs trap all particles that are 5
24 millimeter (mm) or greater. For perspective, 5mm is the size of a cigarette butt.

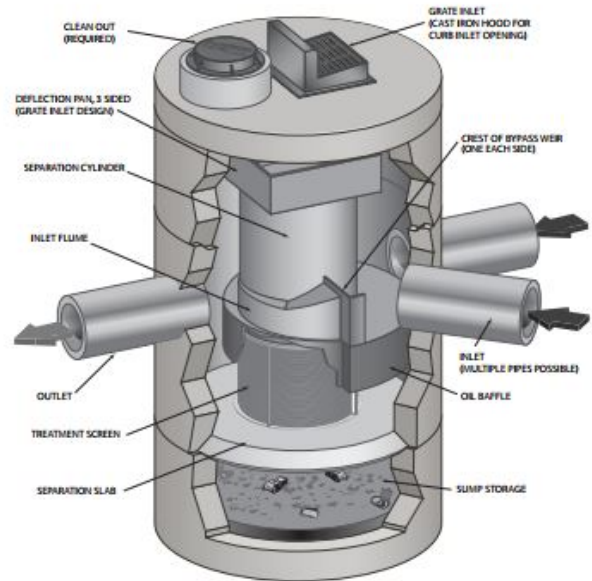
25
26 Track 2's other control measures include additional trash reduction measures
27 such as increased frequency of street sweeping, installation and maintenance of
28 curb inlet screens, frequent trash cleanups, and public education. These other
29 measures have to capture as much trash as would be collected under Track 1
30 with extensive administrative and recordkeeping documenting that the amount of
31 trash collected is equivalent. Track 2 has the potential for challenges by the
32 state as to effectiveness of trash reduction. If the trash reduction does not meet
33 the states requirements, a jurisdiction can be ordered to implement Track 1.

34



After much study and consideration, Staff recommends **Track 1** be implemented. Even though we recommend Track 1, Calistoga can decide to switch to Track 2 at a later date.

FCS's are either a Continuous Deflection Separation (CDS) unit or Drain Inlet Screen device similar to images below:



47 **Image 1 - Drain Inlet Screen**

48

49

Image 2 - CDS Unit Image

50 Drain Inlet Screens run about, \$5,000 each for materials and installation,
51 whereas CDS units run upwards of \$150,000.

52

53 **CONSISTENCY WITH CITY COUNCIL GOALS AND OBJECTIVES:** This
54 project is consistent with City Council Goal #3: Establish, improve and maintain
55 City infrastructure; and Goal #4: Create an environmentally-sustainable
56 community.

57

58 **FISCAL IMPACT:** The City is required to complete the installations of the FCSs
59 within 10 years at 10% per year. Most of the FCSs are being installed as a
60 condition of new development (the 611 Washington Senior Housing and Berry
61 Street Bridge Replacement Projects) and will not cost the City anything. These
62 installations should bring us into substantial compliance with Track 1
63 requirements.

64

65 However, there will be a maintenance cost associated with staff time and may
66 require the purchase of a vacuum trailer at a future time to clean out the trash
67 screens. The FCS will need to be cleaned prior to every major rain event.
68 Vacuum trucks or trailer mounted vacuums run anywhere from \$50,000 to
69 \$350,000. We are in discussions with St. Helen to establish a "trade" of
70 equipment and services which would allow us to borrow their Vac Truck.

71

72 **ATTACHMENTS:**

73

1. Resolution

74

2. Trash Generation Maps

RESOLUTION 2017- XXX**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CALISTOGA,
COUNTY OF NAPA, STATE OF CALIFORNIA, AUTHORIZING SUBMITTAL OF
A LETTER TO THE STATE WATER RESOURCES CONTROL BOARD
RELATED TO STORMWATER TRASH REGULATIONS**

1 **WHEREAS**, the State Water Resources Control Board formally designated the City
2 of Calistoga along with 22 other jurisdictions in the northern portion of San Francisco Bay
3 area as subject to trash reduction requirements on June 1, 2017; and
4

5 **WHEREAS**, the City of Calistoga is required to submit in writing to the State Water
6 Resources Control Board by September 1, 2017 its selected method to comply with the
7 trash reduction requirements using Track 1 or Track 2 compliance approach; and
8

9 **WHEREAS**, staff recommends using Track 1 compliance approach which means
10 that the City will meet 100% of our trash reduction requirements with trash full capture
11 systems (FCSs); and
12

13 **WHEREAS**, FCSs are designed to trap all particles that are 5 millimeter (mm) or
14 greater, and have a design treatment capacity that is either (a) not less than the peak flow
15 rate resulting from a one-year, one-hour storm in the catchment area (between 0.4 and 0.7
16 inches of rainfall), or (b) appropriately sized and designed to carry at least the same flows
17 as the corresponding storm drain; and
18

19 **WHEREAS**, the City is required to submit an updated baseline trash generation map
20 by December 1, 2018; and
21

22 **WHEREAS**, the City is required to complete the installations of the FCSs within 10
23 years at 10% per year; and
24

25 **WHEREAS**, most of the FCSs have been installed or are being installed with various
26 development projects with little or no capital outlay by the City; and
27

28 **WHEREAS**, staff will be required to inspect, clean and maintain the FCSs annually,
29 and prior to every major rain event; and
30

31 **WHEREAS**, additional funding to purchase equipment may be necessary in future
32 budget years.
33

34 **NOW, THEREFORE BE IT RESOLVED** that the City Council of the City of Calistoga
35 hereby authorizes the Public Works Department to submit a letter to the State Water
36 Resources Control Board indicating that the City of Calistoga has elected to comply with
37 the Trash Amendments requirements using Track 1 compliance approach.
38
39

40 **PASSED, APPROVED, AND ADOPTED** by the City Council of the City of Calistoga
41 at a regular meeting held this **1st day of August, 2017**, by the following vote:
42

43 **AYES:**

44 **NOES:**

45 **ABSTAIN:**

46 **ABSENT:**
47
48
49

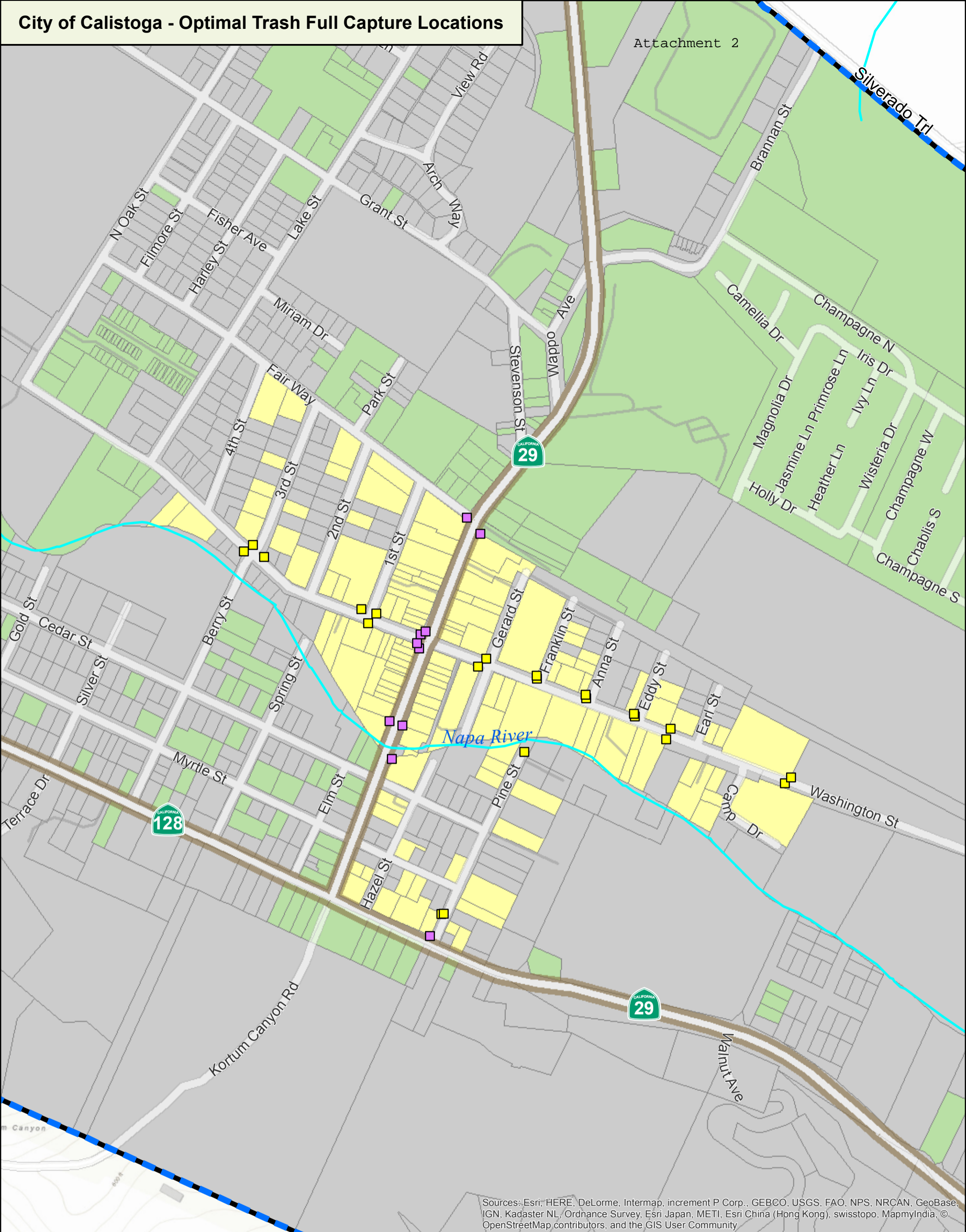
50 _____
51 **CHRIS CANNING, Mayor**

52 **ATTEST:**
53
54
55

56 _____
KATHY FLAMSON, City Clerk

City of Calistoga - Optimal Trash Full Capture Locations

Attachment 2



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Legend

Trash Generation Category

- Low
- Moderate
- High
- Very High
- Non-Priority

- Potential Small Trash Full Capture Device - Caltrans Inlet
- Potential Small Trash Full Capture Device
- Street
- State Highway
- Creek
- Parcel Boundary
- Permittee Boundary

- Potential Large Trash Full Capture Device
- Potential Large Trash Full Capture Treatment Area

