



Memorandum

To: Santa Ana Stormwater Quality Standards Task Force

From: CDM Smith

Date: October 3, 2013

Subject: Land Use Adjacent to UAA Reaches

This technical memorandum summarizes land use information as part of technical support to the Use Attainability Analysis (UAA) process. Available land use information was used to estimate the linear distance of different land use types immediately adjacent to each of the following UAA Reaches:

- Temescal Creek - Reach 1a
- Temescal Creek - Reach 1b
- Cucamonga Creek - Reach 1
- Greenville Banning Channel - Reach 1
- Santa Ana Delhi - Reach 1
- Santa Ana Delhi - Reach 2

The land use information referenced in this analysis was acquired in GIS format from the Department of Research and Analysis at the Southern California Association of Governments, last updated in 2008. The upper and lower extent used for each reach are described below.

Temescal Creek

Reach 1a extends from Lincoln Avenue upstream to the confluence with Arlington Channel. Reach 1b extends from the confluence with Arlington Channel upstream to approximately 1,400 feet upstream of Magnolia Avenue.

Cucamonga Creek

The Basin Plan defines the downstream boundary of Reach 1 as the confluence with Mill Creek near Hellman Avenue (Figure CC-2). The upstream boundary of Reach 1 is marked by the Cucamonga Canyon Dam located near 23rd Street in the City of Upland.

Greenville Banning Channel

The upper segment, called Reach 1, begins at the inflatable diversion dam and ends where California Street crosses the channel.

Santa Ana Delhi Channel

The downstream boundary of Reach 1 is the upper boundary of the Tidal Prism, located 1,036 ft. upstream of the bicycle bridge at the terminus of University Drive in the City of Newport Beach. The bicycle bridge is at the boundary of the Upper Newport Bay Ecological Reserve. Reach 1 extends to immediately upstream of the intersection of Sunflower Avenue and Flower Street in the City of Santa Ana. Reach 2 stretches from the intersection of Sunflower Avenue and Flower Street to Warner Avenue.

The linear distance of land use types adjacent to each reach was totaled (both sides of each channel) and summarized in the following tables.

Temescal Creek - Reach 1a

| Land Use | Linear Feet | % of Channel Length |
|--|---------------|---------------------|
| Commercial, Institutional, Industrial, Mixed | 18,727 | 100% |
| Parks and Recreation | 0 | 0% |
| Residential | 0 | 0% |
| TOTAL | 18,727 | 100% |

Temescal Creek - Reach 1b

| Land Use | Linear Feet | % of Channel Length |
|--|---------------|---------------------|
| Commercial, Institutional, Industrial, Mixed | 17,372 | >99% |
| Parks and Recreation | 0 | 0% |
| Residential | 52 | <1% |
| TOTAL | 17,424 | 100% |

Cucamonga Creek - Reach 1

| Land Use | Linear Feet | % of Channel Length |
|--|---------------|---------------------|
| Agriculture | 25,157 | 59% |
| Commercial, Institutional, Industrial, Mixed | 12,666 | 30% |
| Parks and Recreation | 0 | 0% |
| Residential | 4,842 | 11% |
| TOTAL | 42,665 | 100% |

Greenville Banning Channel - Reach 1

| Land Use | Linear Feet | % of Channel Length |
|-------------------------|--------------------|----------------------------|
| Santa Ana River Channel | 9,681 | 45% |
| Parks and Recreation | 4,644 | 22% |
| Residential | 7,000 | 33% |
| TOTAL | 21,325 | 100% |

Santa Ana Delhi - Reach 1

| Land Use | Linear Feet | % of Channel Length |
|--|--------------------|----------------------------|
| Commercial, Institutional, Industrial, Mixed | 20,180 | 54% |
| Parks and Recreation | 8,217 | 22% |
| Residential | 8,865 | 24% |
| TOTAL | 37,262 | 100% |

Santa Ana Delhi - Reach 2

| Land Use | Linear Feet | % of Channel Length |
|--|--------------------|----------------------------|
| Commercial, Institutional, Industrial, Mixed | 14,930 | 77% |
| Parks and Recreation | 0 | 0% |
| Residential | 4,364 | 23% |
| TOTAL | 19,294 | 100% |