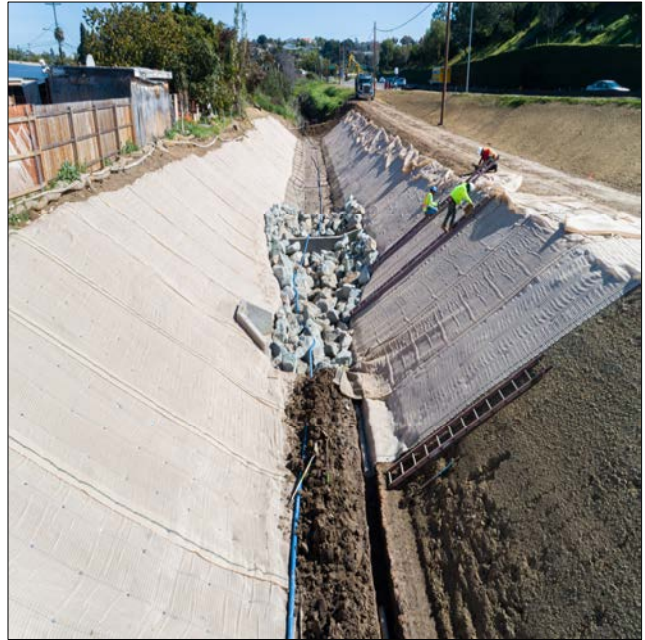




Paradise Creek Water Quality & Community Enhancement project

Regional Advisory Committee (RAC) Meeting

February 3, 2021



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Topics

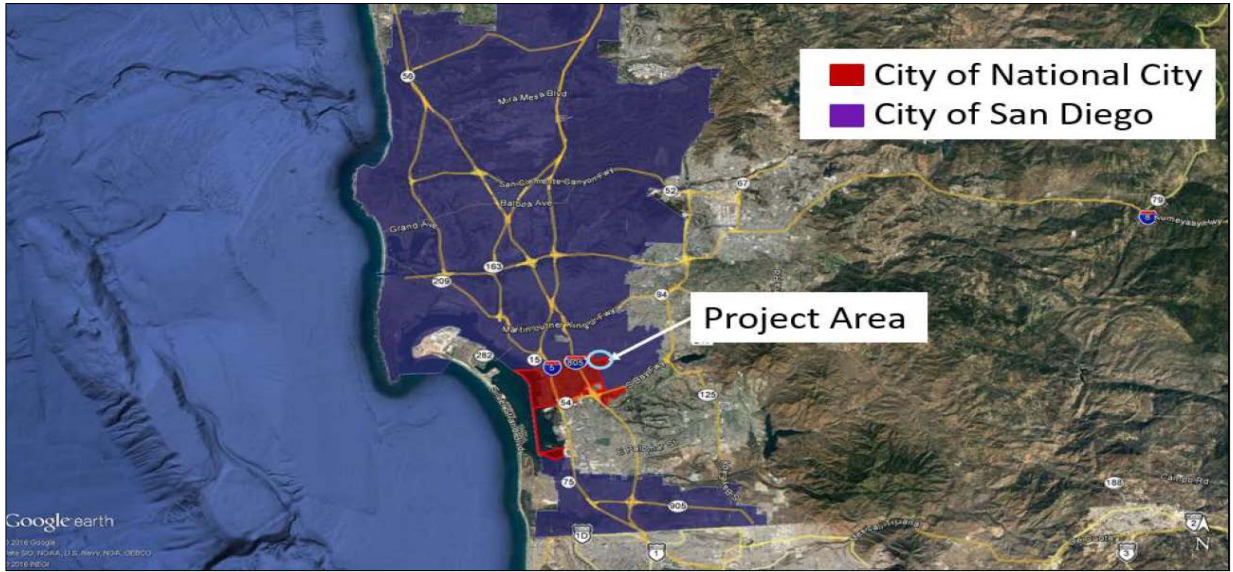


- Overview of the Planning/Design/Implementation process
- Grants and Funding
- Project Design
- Project Challenges
- Construction Photos

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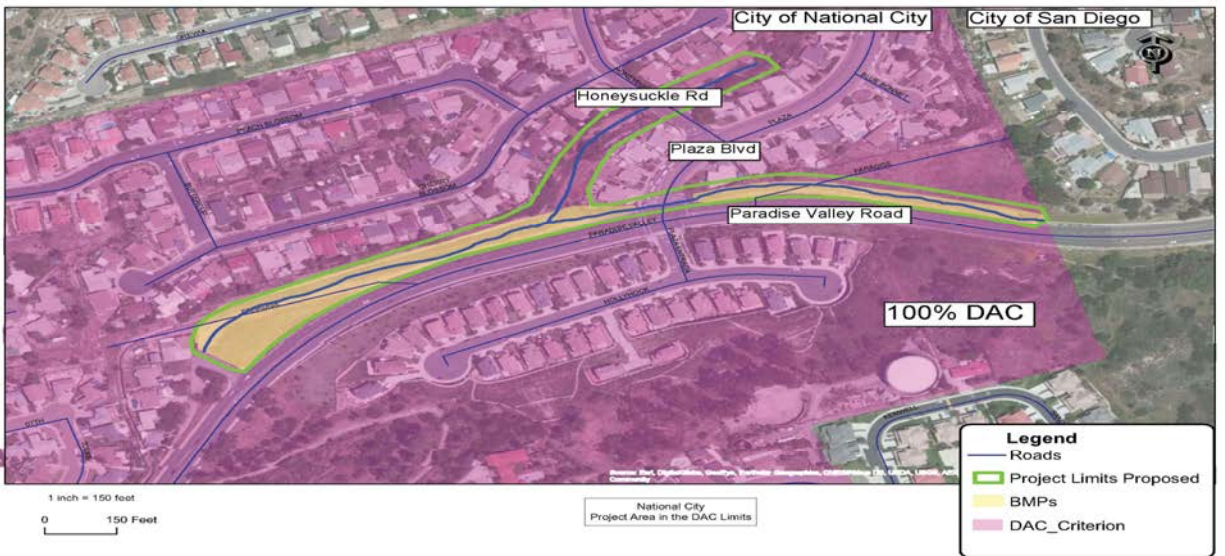
Project Site



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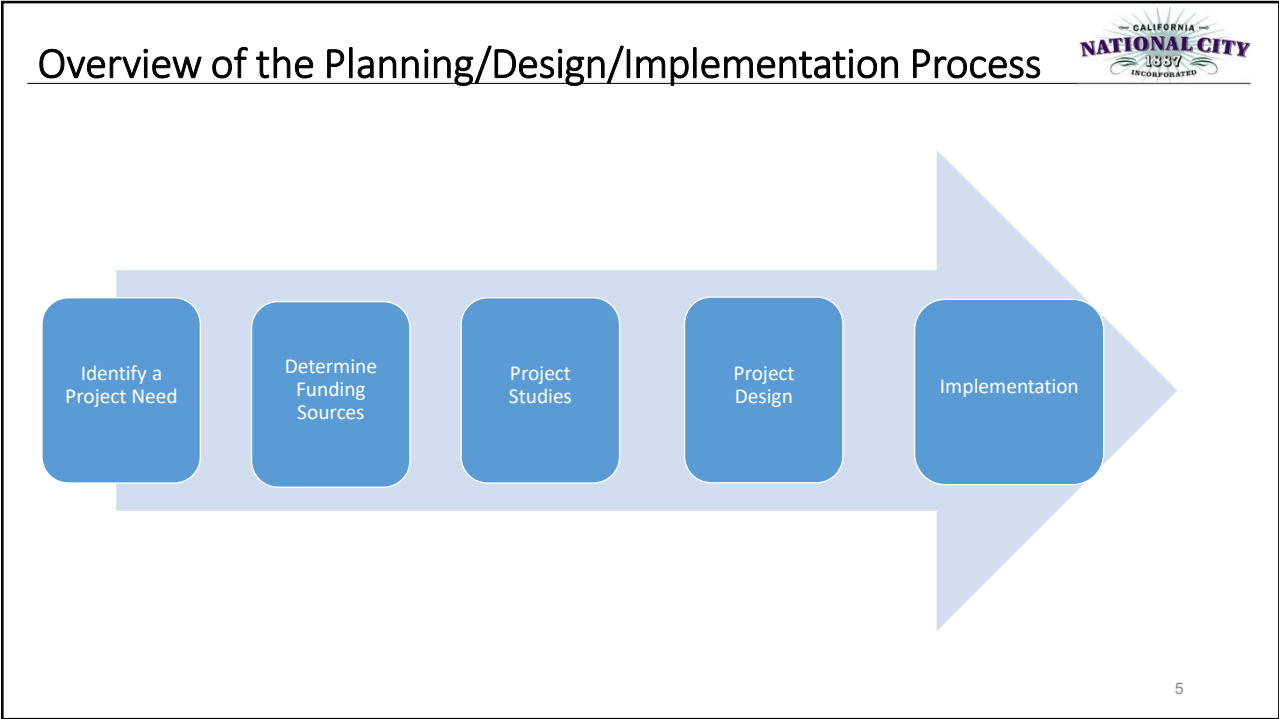
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Project Site



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Project Goal for Paradise Creek

IDENTIFY THE PROJECT NEEDS:

- Flood issues;
- Deteriorated channel infrastructure;
- Protect and enhance water quality;
- Addressing illegal dumping and trash;
- Channel is tough to maintain;
- Beautify the area.

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The Project Site

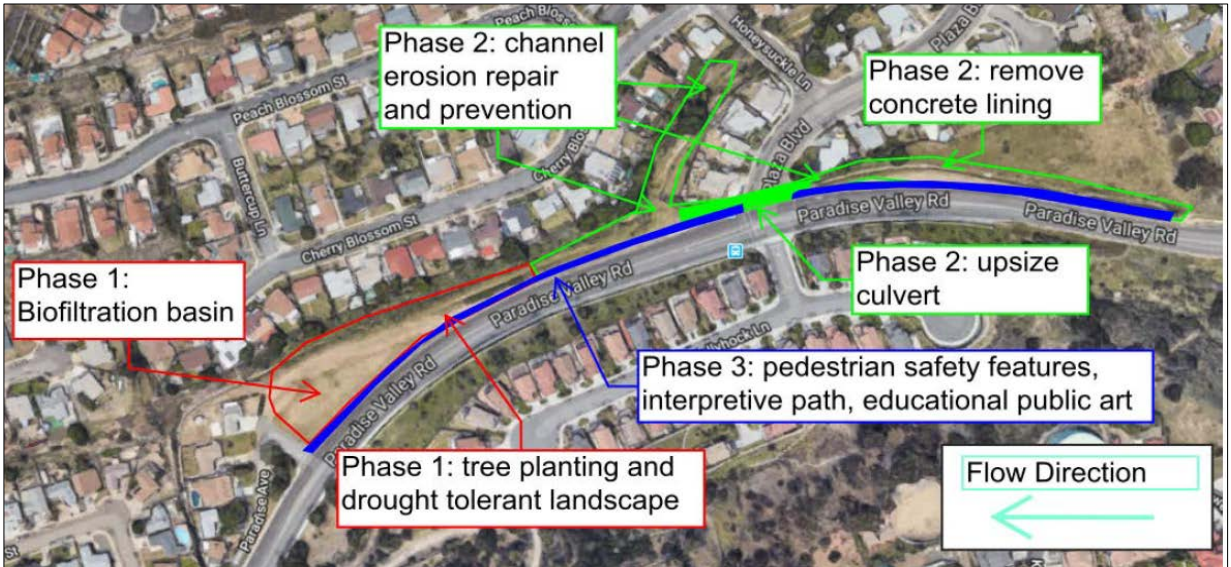
Paradise Creek



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Construction Phases



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Grants and Funding – Planning & Design Phase



BUDGET:

Total Amount	\$365,000.00
Grant	\$365,000.00
Local Match	\$ 0.00



Grant Funding: San Diego Integrated Regional Water Management (IRWM) Plan and the Department of Water Resources (DWR)

BUDGET SUMMARY:

Community outreach	\$ 28,000.00
Engineering Studies	\$ 3,876.00
Design Drawings	\$ 95,000.00
Environmental documentation	\$154,552.50
Regulatory permitting	\$ 83,315.66

Construction Phases: Phase I



BUDGET:

Total Amount	\$1,493,842.00
Grant	\$1,334,425.00
Local Match	\$ 149,417.00



Grant Funding: Proposition 84 “Clean Beaches Program” from the California State Water Resources Control Board

BUDGET SUMMARY:

Administration Cost	\$ 50,000.00
Planning/Design/Engineering	\$ 60,000.00
Construction/Implementation	\$1,353,915.00
Monitoring/Performance	\$ 30,000.00

TYPE OF IMPLEMENTATION IN PHASE I:

- Construction of the biofiltration basin
- Channel erosion repair
- Landscaping

Construction Phase I: Complete.

Construction Phases: Phase II



BUDGET:

Total Amount	\$3,681,056.00
Grant	\$3,681,056.00
Local Match	\$ 0.00



Grant Funding: San Diego Integrated Regional Water Management (IRWM) Plan and the Department of Water Resources (DWR)

BUDGET SUMMARY:

Project Administration	\$ 100,000.00
Planning/Design/Engineering	\$ 10,000.00
Construction/Implementation	\$3,571,056.00

TYPE OF IMPLEMENTATION IN PHASE II:

- Upsizing of the culvert
- Channel erosion repair
- Improvement of the storm drain

Construction Phase II Start: Spring 2021

Construction Phases: Phase III



BUDGET:

Total Amount	\$1,600,000.00
Grant	TBD
Local Match	TBD

No Funds Allocated at this time

The City is researching grant opportunities in order to fund the third phase of the project.

TYPE OF IMPROVEMENT IN PHASE III:

- Pedestrian safety features
- Interpretive path
- Educational public art

Project Goal

Identifying the key driving factor

IMPROVE WATER QUALITY

- The bioswale creek will filter out small levels of pollutants
- The water quality basin will provide flow-through treatment

ADDRESS FLOODING

- Increase the capacity of the creek and will add an inlet to efficiently convey the 100-year peak flood
- Improvements will help to better control the flow
- Removing 16 DAC properties from FEMA Special Flood Hazard

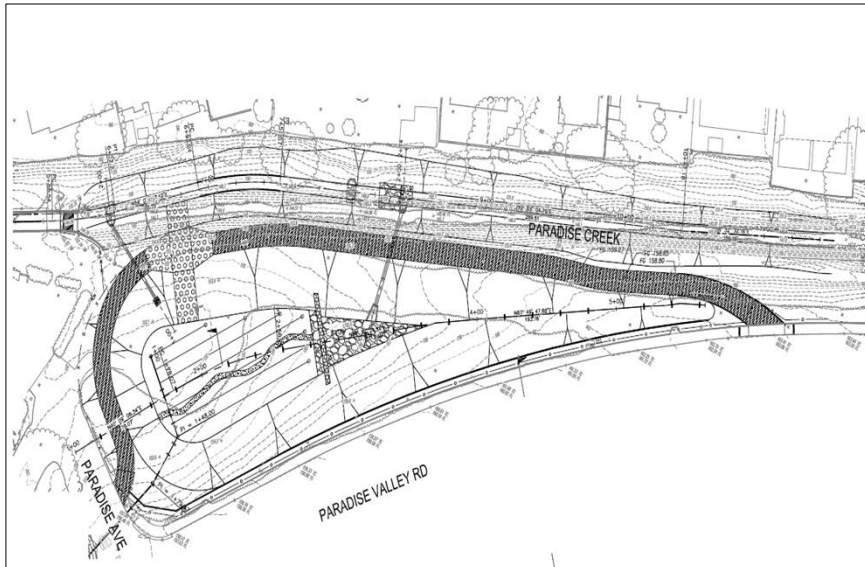
HIGH-VOLUME SURFACE RUNOFF

- The creek will have a low-flow channel that will help to slow down surface runoff flow and better direct it toward the detention basin

RECREATIONAL SPACE

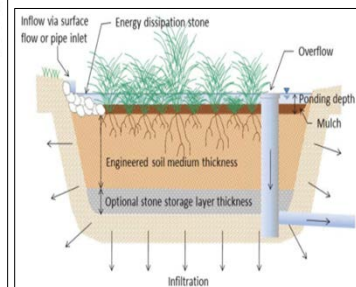
- Project will include an educational path along the creek for pedestrians and bicyclists
- Help preserve and restore the existing open space while providing an aesthetically pleasing solution for the DAC community

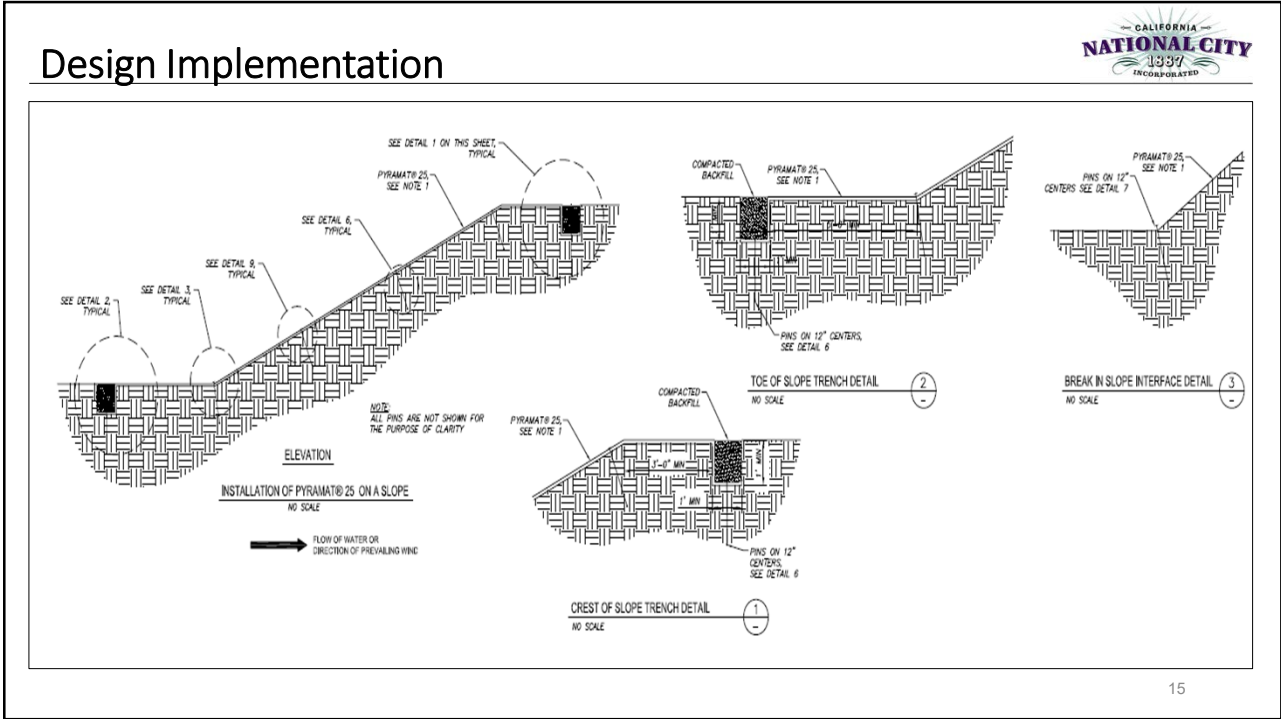
How a Biofiltration Basin Works



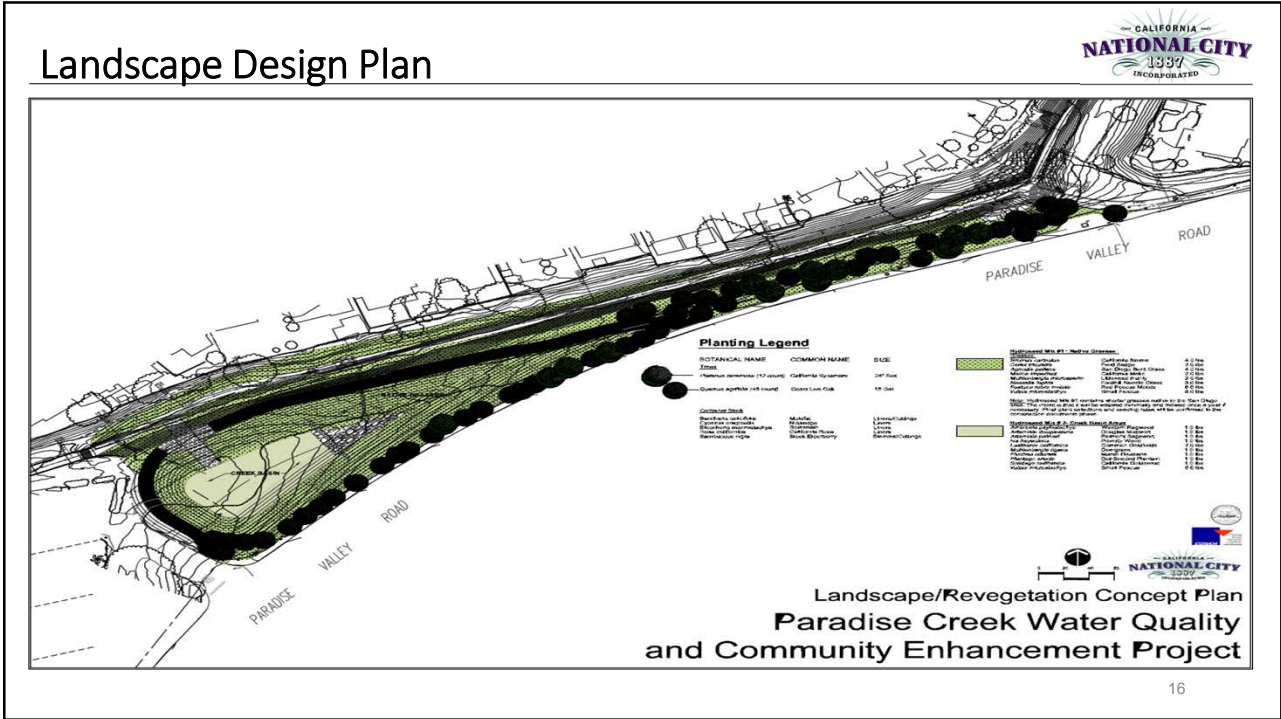
Benefits

- Slows down runoff
- First flush
- Treats pollutants
- Over 30 AFY (10M gal) will be treated





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Planning & Construction Challenges



PERMITTING DELAYS

- On obtaining the required 404 permit;
- Negotiation of time extension to the grant manager for the construction of the first phase of the project.

UTILITY RELOCATION

- Coordination challenges in relocating utility poles and overhead cables in phase I;
- Removal and relocation of the new culvert close to gas, sewer and other underground utilities.

CONSTRUCTION IN THE CREEK

- Extended delays caused by several storm events during the last rainy season;
- Managing the water creek was challenging during the dry season caused by unexpected water flowing in the creek.

The Project – Construction Photos



The Project – Construction Photos



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The Project – Construction Photos



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The Project – Construction Photos



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The Project – Construction Photos



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The Project – Construction Photos



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The Project – Construction Photos



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THANK YOU

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QUESTIONS?

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