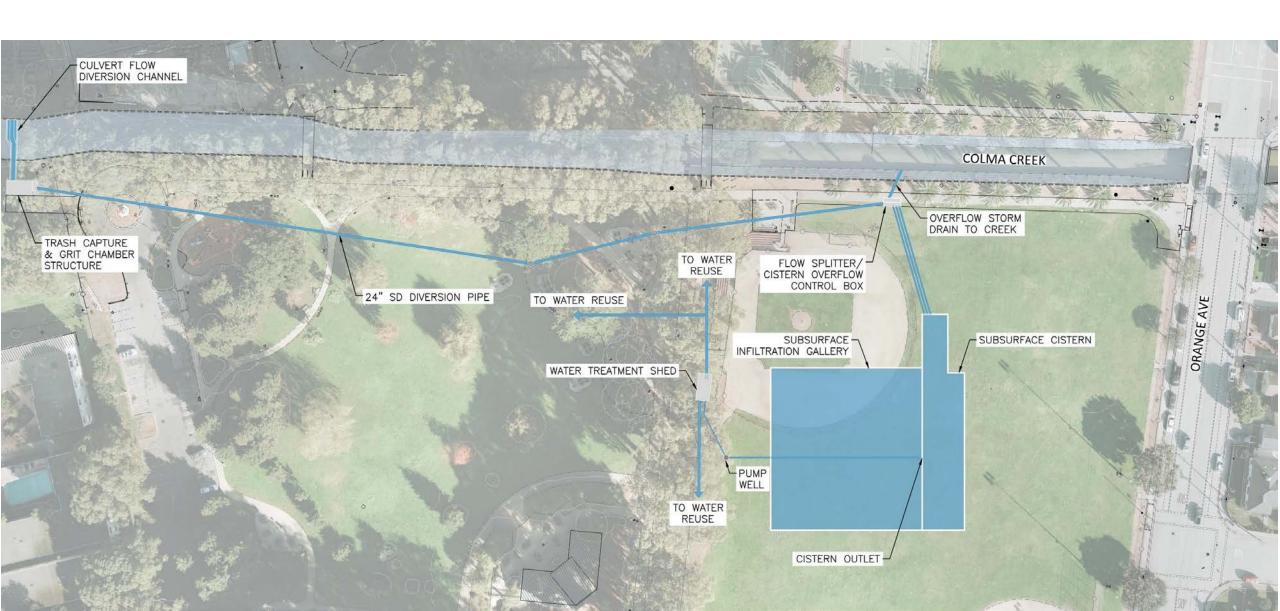


# Project Update

### Selected Alternative: Subsurface Cistern under Ballfields



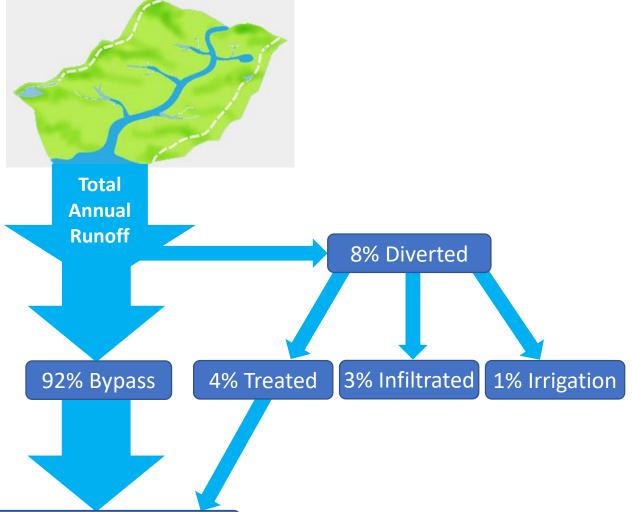
### 60% Design - Water Capture System Layout



### 60% Design – Water Capture System Performance

## Hydrology

96% Flows Reach the Bay



### **Annual Benefits (RAA Model)**

### **Equivalent Areas treated**

- 351 acres for general water quality (85<sup>th</sup> percentile storm)
- 133 acres for trash capture (1-yr, 1-hr storm)

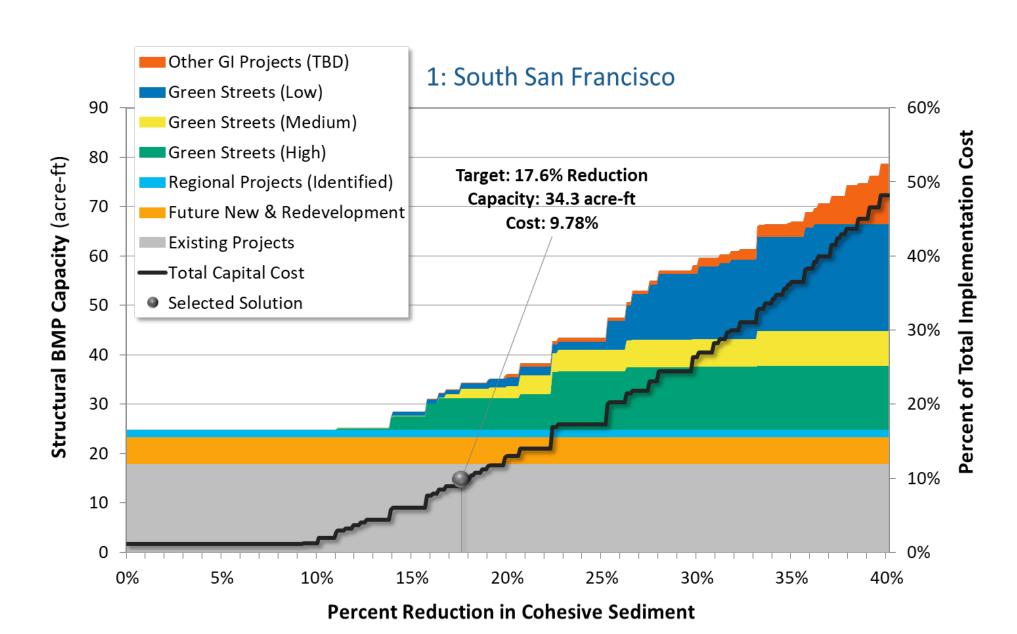
### **Pollutant Load Reduction**

- 56 tons of sediment removed
- 5 grams of PCBs removed
- 16 grams of Hg removed

### **Beneficial Uses**

- 120 ac-ft/yr groundwater recharge
- 40 ac-ft/yr potable offset
- 160 ac-ft/yr treated and returned

### Water Quality Benefits



### Schedule - Design, Bid, and Construction

2019 2020 2021

- Design, Bid, Stormwater Capture
- Planning ballfield replacement

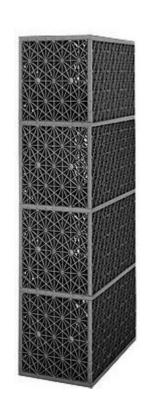
- Complete
   Construction
   Stormwater
   Capture
- Begin construction of ballfield replacement
- Complete construction phase 1 of new ballfield

## Storage System Pre-purchase

### **Stormwater Storage System Products Comparison**

Atlantis Corp. Atlantis Quad Flo-Tank Graf EcoBloc Maxx

RainHarvest Systems California Filtration Specialists R-Tank HD Pent







### Storage System - Cost Comparison

#### Atlantis Flo-Tank

Storage modules only: \$463,144

• Total cost: \$1,281,000

#### Graf EcoBloc Maxx

• Storage modules only: \$696,609

• Total cost: \$1,525,000

#### R-Tank HD Pent

• Storage modules only: \$676,425

Total cost: \$1,492,000

### Storage System - Warranty Terms

#### Atlantis Flo-Tank

- 10-year written warranty
- Applies to structural integrity of Atlantis Flo-Tank modules only

#### Graf EcoBloc Maxx

 Written warranty not yet provided

### R-Tank HD Pent

- 10-year written warranty
- Applies to structural integrity of R-Tank modules only

### Storage System - Certifications

#### Atlantis Flo-Tank

Raw materials supplier compliant
 with ISO 9001

#### Graf EcoBloc Maxx

- Manufacturing certified according to ISO 9001
- Manufacturing certified according to ISO 50001

#### R-Tank HD Pent

- Raw materials supplier compliant with ISO 9001
- Independently certified AASHTO Load and Resistance Factor Design

### Storage System - Testing

#### Atlantis Flo-Tank

- 3<sup>rd</sup> party testing done for samples
   from factory production of modules per in-house Atlantis
   Production Protocol and Atlantis
   Quality Requirements
  - Compression Tests
  - Flexibility & Deformation Tests
  - Drop Tests
  - Visual Inspection
- University of Technology Sydney performed creep tests and compression tests of Atlantis modules

#### Graf EcoBloc Maxx

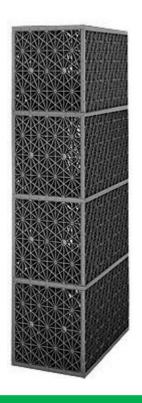
- Written warranty not yet provided
- Testing performed per requirements to obtain European product certificate (BBA)
  - Quick Compression Tests
  - Creep Rupture Tests
  - Design Strength
  - Installation Limits

#### R-Tank HD Pent

Information not yet provided

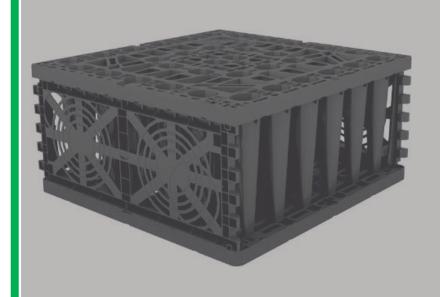
### Storage System – RECOMMENDATION

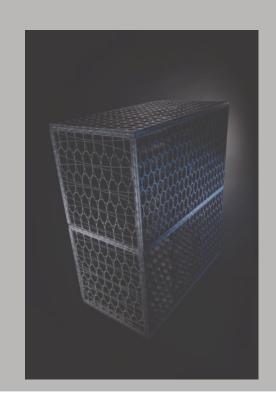
Atlantis Corp. Atlantis Quad Flo-Tank



Graf EcoBloc Maxx

RainHarvest Systems California Filtration Specialists R-Tank HD Pent





# Thank you!