

Sunol Wastewater Feasibility Study

Downtown Sunol Community Wastewater Alternative

Overview

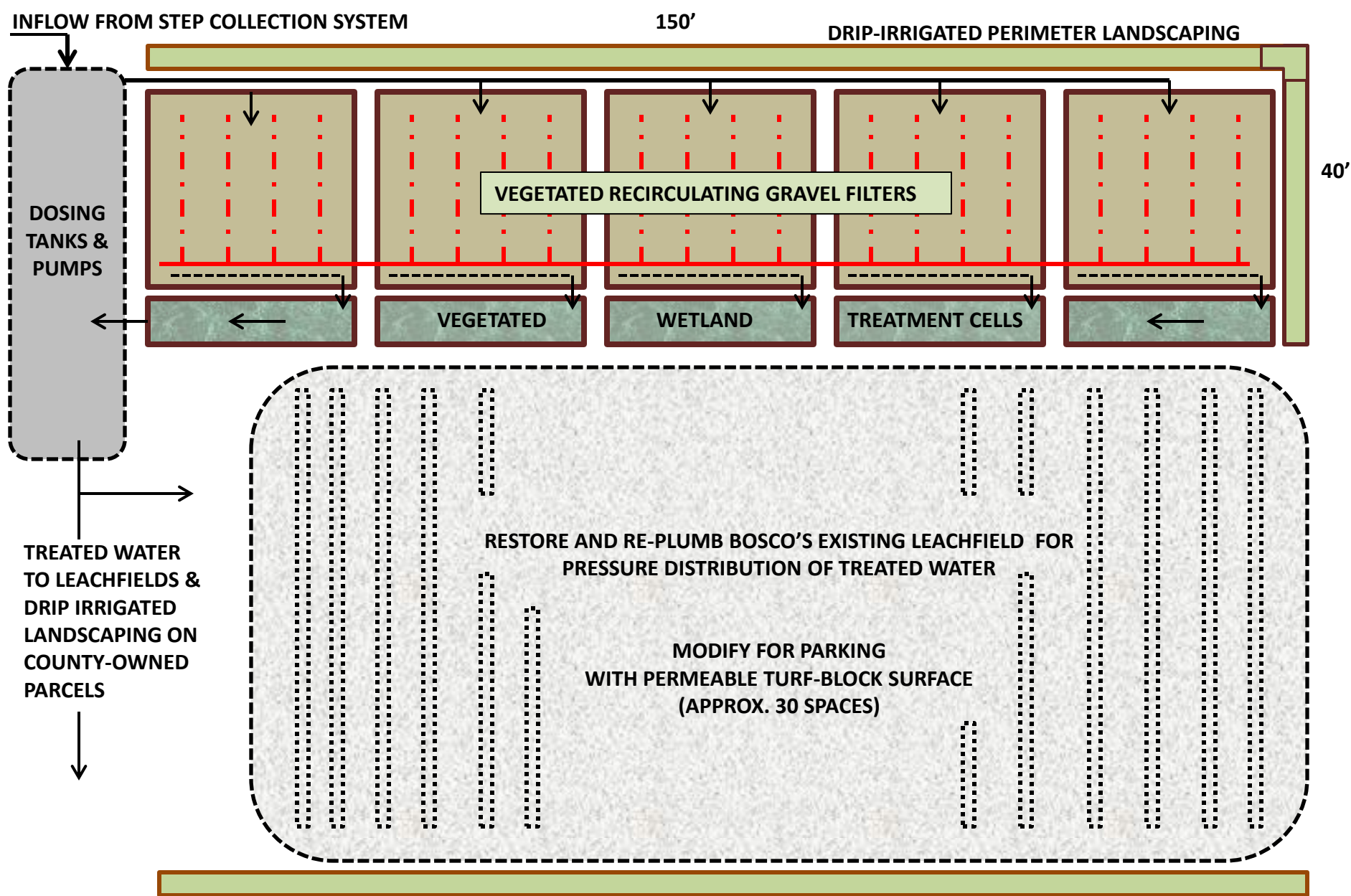
April 9, 2019

- Limited capacity community wastewater system for commercial and high density areas of Sunol. Voluntary connection. Exact service area to be determined through surveys and community input.
- STEP collection system with community treatment, leachfield and subsurface drip dispersal (irrigation) on County owned parcels (Depot Park Gardens).
- Conceptual plan for approximately 10,000 to 15,000 gpd capacity could serve commercial district, 30 to 50 residences, elementary school and new public restroom at train depot (requested by lessee).
- STEP standards for “septic tank effluent pump”, where each parcel has its own septic tank and pump unit, with the effluent collected in a network of small diameter pipes (3”).
- Treatment and dispersal would be centered in the gravel area east of the community developed and maintained gardens.
- The existing pipeline, creek crossing and leachfield serving Bosco’s would be integrated into the community system, with fair compensation and continuing service to BoscOs.
- Preliminary site information indicates very suitable soil conditions for leachfields, especially in combination with secondary treatment.
- Proposed secondary treatment system – vegetative recirculating gravel filter providing; passive system with potential educational and demonstration features, and an amenity to the park.

Estimated Wastewater Flows Downtown Sunol

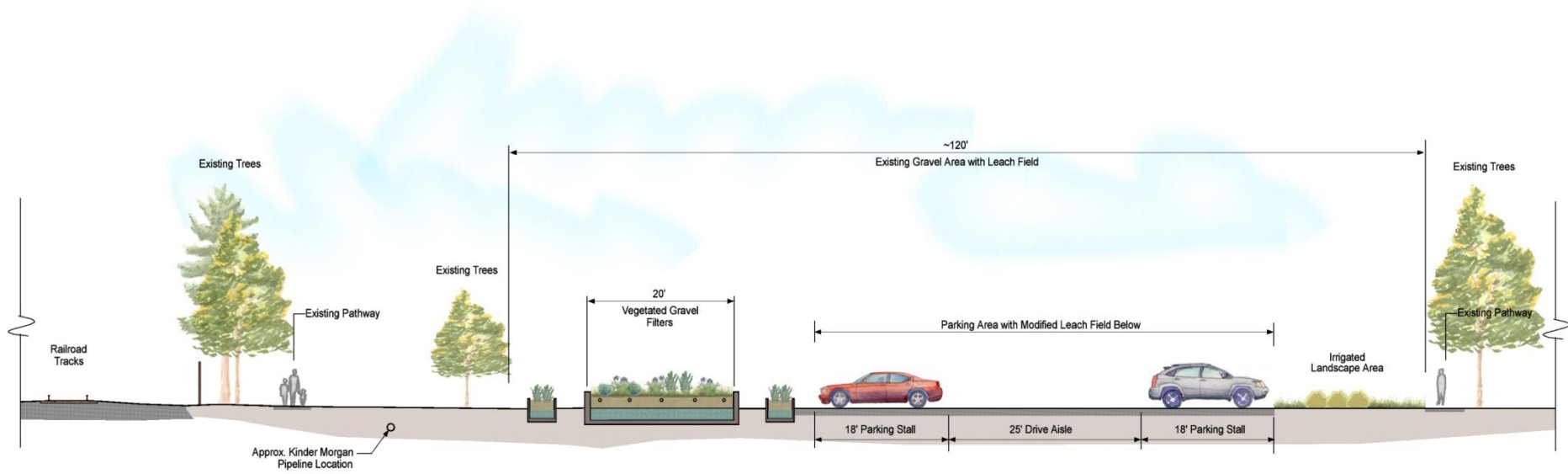
Wastewater Sources	Estimated Wastewater Flow (gallons per day)	
	Low	High
Commercial District	3,000	5,000
Residences (30 to 50 @ 150 gpd)	4,500	7,500
Elementary School	1,500	1,500
Public Restroom	1,000	1,000
Total	10,000	15,000





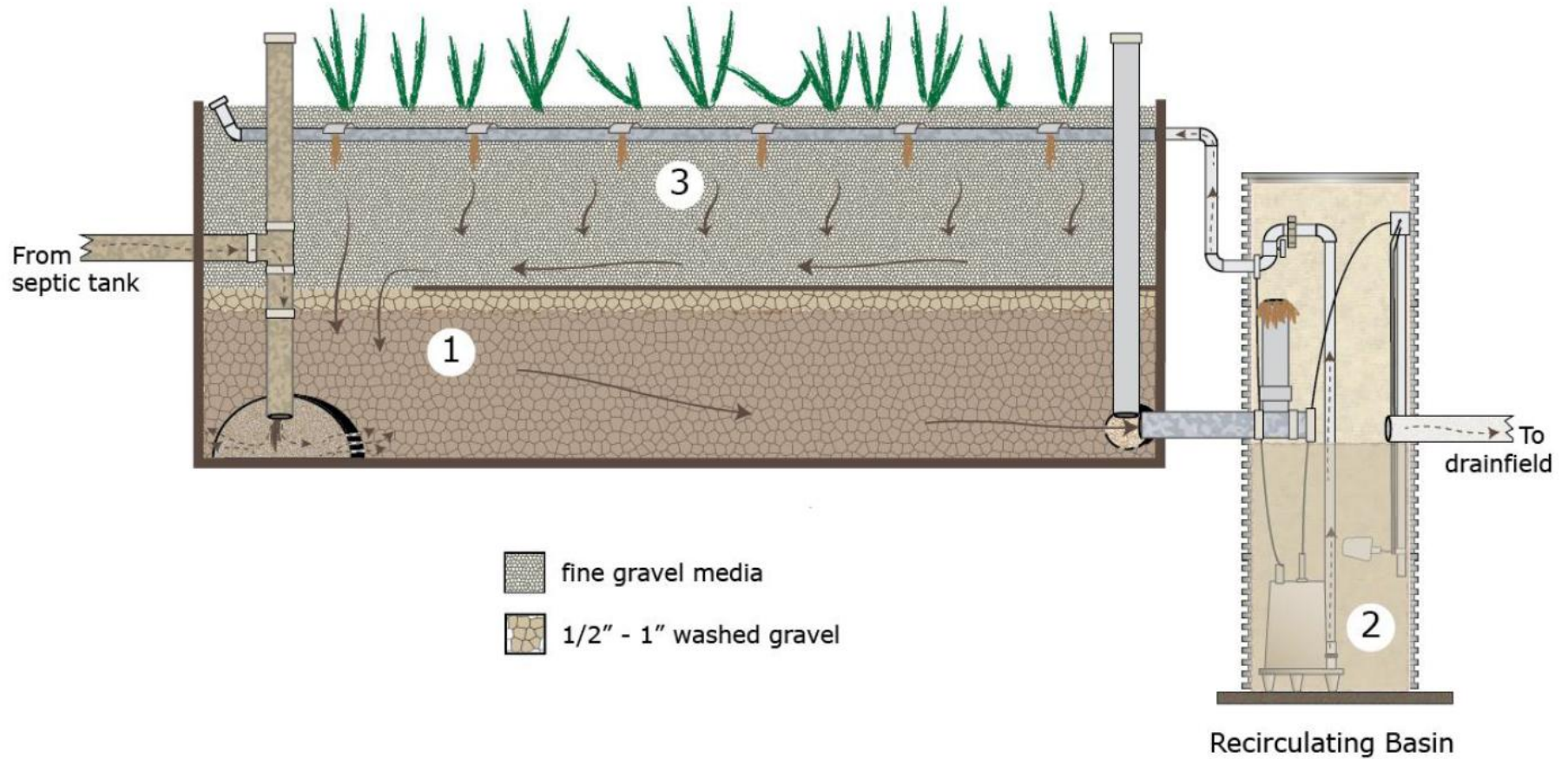
CONCEPT WASTEWATER FACILITIES SCHEMATIC

SUNOL DEPOT GARDEN PARK



SECTION VIEW OF SUNOL DEPOT GARDEN CONCEPT WASTEWATER PLAN

Vegetated Recirculating Gravel Filter





Project Facts

- Sidwell Friends is a K-12 private school located on a 15-acre site in historic Tenleytown, Washington, D.C.
- Completed in 2007, Sidwell Friends School renovated and expanded its fifty-year-old, 33,000 square-foot middle school building.
- The new facility includes an eco-friendly courtyard, a green roof, and an additional 39,000 square-feet of classroom space.
- A wastewater management system cleans 3,000 gallons of water per day. After circulating through the landscape for three to five days, the water is re-used in the building's toilets and cooling tower.
- On-site sewage treatment, water re-use, and water-efficient native plants reduce the school's water consumption by 93 percent.



Living Machine Esalen Institute, Big Sur



Living Machine, SFPUC