



Recycled Water Customer Site Evaluation



Customer: City of San Ramon
Site: Village Green Park



Date: 11/17/05

Location: Village Green Park
No Site Landscape Technician Present

I. Horticultural Conditions Overview

Planting beds appear healthy. There are no issues regarding disease, fertilizer use, or plant location. Lawn is soggy.

II. Existing Conditions

a. Primary Existing Plant Species

<i>Agapanthus orientalis</i>	Lily-of-the-Nile
<i>Arctostaphylos</i> spp.	Manzanita
<i>Celtis</i> spp.	Hackberry
<i>Cinnamomum camphora</i>	Camphor Tree
<i>Crataegus phaenopyrum</i>	Washington Thorn
<i>Dietes</i> spp.	Fortnight Lily
<i>Erigeron karvinskianus</i>	Fleabane
<i>Escallonia</i> spp.	Escallonia
<i>Gazania</i> spp.	Gazania
<i>Hemerocallis</i> spp.	Daylily
<i>Jasminum polyanthum</i>	Pink Jasmine
<i>Lagerstroemia</i> spp.	Crape Myrtle
<i>Lavatera thuringiaca</i>	Tree Mallow
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Pittosporum tobira</i> 'Variegata'	Variegated Pittosporum
<i>Rosa banksiae</i> 'Alba Plena'	Lady Banks' Rose
<i>Sequoia sempervirens</i>	Coast Redwood
<i>Tulbaghia violacea</i>	Society Garlic
<i>Viburnum tinus</i>	Viburnum 'Spring Bouquet'
<i>Wisteria</i> spp.	Wisteria

b. Planting Beds

Plants are healthy and thriving. There are no issues regarding disease, fertilizer use, or plant location. Drainage does not appear to be a problem.

c. Turf

Lawn is soggy and has poor drainage.

III. Soil Testing

Please see soil report folder.

IV. Irrigation System Assessment

Irrigation assessments will be done by Valley Crest at this location. Site landscape technicians did not report any issues regarding irrigation at Village Green Park.

Best Management Practices

Aerate lawn, apply gypsum and ironite.

Be aware of your plants' cultural requirements, such as light preferences, water needs, apt soil conditions, and hardiness. Make sure the right plants are in the right location. Test soil at least once a year and use proper amendment according to results. After receiving recycled water, cut down fertilizer use. Maintain irrigation systems by making repairs in timely manner, maintaining valves, adjusting heads regularly, and replacing nozzles as needed. Consider seasonal variations of rainfall and program controllers accordingly.



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December 9, 2005

Chemical analyses on samples received:

December 5, 2005

Sample Identification	pH	Electrical Conductivity ECX10 ³ mmhos/cm	Nitrate Nitrogen (N)	Ammonium Nitrogen (N)	Phosphorus (P)	Potassium (K)	Calcium (Ca)	Magnesium (Mg)	Sulfate (SO ₄)	Boron (B)	Zinc (Zn)	Copper (Cu)	Manganese (Mn)	Iron (Fe)	SP Saturation Percentage	Calcium plus Magnesium	milliequivalents per liter in extract		SAR Sodium Adsorption Ratio	ESP Exchangeable Sodium Percentage
																	Sodium (Na)	Chloride (Cl)		
Optimum Values - Turf	5.5- 6.5	1.0- 3.0	25- 50	15- 25	15- 50	75- 125	2000- 4000	100- 500	20- 200	0.5- 1.0	1.5- 2.5	1.0- 3.0	10- 20	25- 75		>6.0	<3.0	<3.0	<6.0	<7.0
Village Green Park 232 Triana Way Lawn	7.5	0.9	0	13	30	170	9800	810	456	0.1	3.0	1.9	17	111	62	7.4	1.5	1.4	0.8	0.9

Optimum Values	Organic Matter (% by Weight)	Lime Content % Ca CO ₃	Mechanical Analyses, % by weight, USDA Classifications				Texture
			Sand	Silt	Clay		
	>5.0	<3.0					
	7.9	5.5	58	22	20		sandy loam

ND - None Detected

S E R V I N G A G R I C U L T U R E S I N C E 1 9 3 8



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Village Green Park

12/9/05

Page 2

The pH value of this soil indicates it is slightly alkaline in reaction and is somewhat high for a turf area. The electrical conductivity reading indicates that the concentrations of soluble salt are low and should not cause any toxicity problems.

The fertility analyses show moderate nitrogen in this soil. The phosphorus, potassium, sulfate, boron, zinc, copper and manganese concentrations are in good ranges. The calcium, magnesium and iron levels are much higher than desirable.

The concentrations of sodium, chloride and boron are low and should not cause toxicity problems. The low ESP value indicates that the exchangeable sodium that is present should not present a hazard to the soil structure. The organic matter content of this soil is satisfactory at this time. The concentration of free lime, calcium carbonate, in this soil is slightly high, however for turf should not cause toxicity problems. The mechanical analysis show that this is a sandy loam textured soil and is satisfactory for turf.

The only fertilizer material necessary at this time is ammonium sulfate applied at a rate of 20 lbs per 1000 square feet split in 4 applications throughout the year.

If you have any questions, please give me a call.

Respectfully submitted,

Clifford B. Low, M.S.



















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