PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING AND TECHNICAL SERVICES

North City Water Reclamation Plant (NCWRP)
Horticultural and Industrial Users Recycled Water Quality Report

January 2013

	Symbol	Unit of Measurement	Recycled Water Permit Limit[3]	NCWRP Recycled Water
Alkalinity	$CaCO_3$	mg/L	-------	87
Hydrogen Ion Activity	pH	Units	6.0 -9.0	6.86
Electrical Conductivity	ECw	umhos/cm	-------	1260
Total Dissolved Solids	TDS	mg/L	1,200	740
Calcium	Ca	mg/L	-------	52.8
Magnesium	Mg	mg/L	-------	26.1
Potassium	K	mg/L	-------	16.5
Sodium	Na	mg/L	-------	166
Sulfate	S	mg/L	-------	127
Iron	Fe	mg/L	0.3	.123
Zinc	Zn	mg/L	-------	.028
Manganese	Mn	mg/L	0.05	.077
Boron	B	mg/L	0.7	.29
Ammonia - Nitrogen	NH_3-N	mg/L	-------	NA
Nitrate	NO_3	mg/L	-------	57.1
Total Nitrogen (Actual)	N	mg/L	-------	19.3
Phosphorus	P	mg/L	-------	1.0
Chloride	Cl	mg/L	300	232
Total Nitrogen (Actual)	N	lbs/ acre ft[4]	-------	52.5
Phosphorus Pentoxide[1]	P_2O_5	lbs/ acre ft[4]	-------	6.25
Potassium Oxide[2]	K_2O	lbs/ acre ft[4]	-------	53.8
Residual Sodium Carbonate	RSC	meq/L	<1.25	-2.98**
Adjusted Sodium Adsoprtion Ratio	SAR	Calculated	6	4.32**

[1]Determined as Phosphorus in the elemental form (P); Phosphorus Pentoxide (P_2O_5) calculated by multiplying P by 2.3.

[2]Determined as Potassium in the elemental form (K); Potassium Oxide (K_2O) calculated by multiply K by 1.2.

[3] SDRWQCB Order #97-03

[4]This value is presented in lbs/acre-ft of water applied 1 mg/L = 2.719 lbs/ac ft

* 1mg/L = 1ppm

-------- = No Permit Limits

** Data for Alkalinity and Conductivity needed to compute the Sodium Adsorption and the Residual Sodium Carbonate were not available for the 09-JAN-13 sample. Average Alkalinity and Conductivity values based over the last 12 months were substituted.