

## City of San Diego

### Annual Report 2003 - North City Water Reclamation Plant - Reclaimed Water - Annual & Monthly Averages

North City Water Reclamation Plant  
Annual Monitoring Report  
2003

#### NCWRP (N34-REC) Reclaimed Water

Month	Monthly Averages					pH Grab (pH)	Turbidity † (NTU)
	Biochemical Oxygen Demand (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)			
JAN	<2	918	ND	ND		7.53	1.0
FEB	<2	931	ND	ND		7.43	1.3
MAR	<2	951	ND	ND		7.55	1.1
APR	<2	881	ND	ND		7.55	1.3
MAY	<2	874	<1.6	<1.6		7.63	1.4
JUN	<2	959	ND	ND		7.66	1.1
JUL	<2	934	ND	ND		7.63	0.8
AUG	<2	954	ND	ND		7.65	0.6
SEP	<2	931	ND	ND		7.64	0.6
OCT	<2	909	ND	ND		7.57	0.6
NOV	ND	893	ND	ND		7.50	0.9
DEC	ND	903	ND	ND		7.50	0.9
Average	<2	920	<1.6	<1.6		7.03	1.0

† Not used for compliance determination. The turbidity values here are from laboratory analysis of 24 hour composite sample after the turbidity was raised by the addition of sodium hypochlorite.

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Analyte:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL and Units:	50 UG/L	23 UG/L	0.4 UG/L	10 UG/L	0.39 UG/L	15 UG/L
Limit:	1000	6	50	1000	4	700
=====	=====	=====	=====	=====	=====	=====
JANUARY -2003	109	ND	0.58	56	ND	294
FEBRUARY -2003	85	ND	0.80	40	ND	373
MARCH -2003	<50	<23	0.95	51	ND	197
APRIL -2003	95	ND	0.82	39	ND	437
MAY -2003	105	ND	ND	68	ND	262
JUNE -2003	530	ND	0.50	46	ND	386
JULY -2003	ND	ND	0.62	37	ND	433
AUGUST -2003	82	ND	ND	47	ND	193
SEPTEMBER-2003	ND	ND	1.20	49	ND	432
OCTOBER -2003	ND	ND	1.24	51	ND	471
NOVEMBER -2003	92	ND	0.96	51	ND	440
DECEMBER -2003	ND	ND	0.85	38	ND	140
=====	=====	=====	=====	=====	=====	=====
Annual Average:	92	0	0.71	48	ND	338

Analyte:	Cadmium	Chromium	Copper	Iron	Manganese	Mercury
MDL and Units:	1 UG/L	5 UG/L	4 UG/L	30 UG/L	4 UG/L	0.5 UG/L
Limit:	5	50		300	50	2
=====	=====	=====	=====	=====	=====	=====
JANUARY -2003	1.4	ND	102	507	57	ND
FEBRUARY -2003	ND	ND	34	74	21	ND
MARCH -2003	ND	ND	103	202	23	0.24
APRIL -2003	ND	ND	50	111	22	ND
MAY -2003	ND	ND	49	562	156	1.71
JUNE -2003	ND	ND	48	103	47	ND
JULY -2003	ND	7.5	65	105	46	ND
AUGUST -2003	ND	6.5	60	66	12	0.16
SEPTEMBER-2003	ND	ND	119	73	ND	ND
OCTOBER -2003	ND	ND	23	58	6	ND
NOVEMBER -2003	ND	11.1	9	88	23	ND
DECEMBER -2003	ND	ND	71	77	36	ND
=====	=====	=====	=====	=====	=====	=====
Annual Average:	0.1	2.1	61	169	37	0.18

Analyte:	Nickel	Selenium	Thallium	Chloride	Fluoride	Sulfate
MDL and Units:	14 UG/L	0.28 UG/L	40 UG/L	7 MG/L	.05 MG/L	0.5 MG/L
Limit:	100	50	2	300	1	300
=====	=====	=====	=====	=====	=====	=====
JANUARY -2003	ND	0.68	ND	228	0.4	215
FEBRUARY -2003	ND	0.76	ND	229	0.5	224
MARCH -2003	ND	0.90	ND	255	0.4	232
APRIL -2003	ND	0.68	ND	218	0.5	202
MAY -2003	ND	0.76	ND	182	0.4	187
JUNE -2003	ND	0.68	ND	186	0.4	178
JULY -2003	<14	0.76	ND	227	0.4	188
AUGUST -2003	ND	0.61	ND	225	0.4	204
SEPTEMBER-2003	ND	0.56	ND	218	0.5	205
OCTOBER -2003	ND	0.80	ND	237	0.4	207
NOVEMBER -2003	14	0.58	ND	214	0.4	214
DECEMBER -2003	16	0.66	ND	214	0.4	209
=====	=====	=====	=====	=====	=====	=====
Annual Average:	3	0.70	ND	219	0.4	205

ND= Not Detected

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Analyte:	Total Cyanides	MBAS Surfactants	Total Organic Carbon	Percent Sodium	Adjusted Sodium Adsorption	Calcium
MDL and Units:	.002 MG/L	.03 MG/L	0.250 MG/L	Calculated	Calculated	.08 MG/L
Limit:	0.2				6	
=====	=====	=====	=====	=====	=====	=====
JANUARY -2003	0.0070	0.26	9.2	55	4.3	66.2
FEBRUARY -2003	0.0110	0.19	8.7	57	4.6	58.6
MARCH -2003	0.0061	0.21	9.2	55	4.7	73.9
APRIL -2003	0.0046	0.20	9.8	55	4.5	68.9
MAY -2003	0.0051	0.10	5.5	48	3.2	69.4
JUNE -2003	0.0059	0.10	6.2	52	3.6	65.2
JULY -2003	0.0069	0.13	7.6	56	4.7	64.2
AUGUST -2003	0.0060	0.29	8.3	54	4.5	75.5
SEPTEMBER-2003	0.0071	0.13	6.3	58	5.2	67.3
OCTOBER -2003	0.0078	0.26	7.6	56	5.0	70.4
NOVEMBER -2003	0.0093	0.13	6.8	55	4.7	73.3
DECEMBER -2003	0.0122	0.11	7.1	58	5.0	63.7
=====	=====	=====	=====	=====	=====	=====
Annual Average:	0.0074	0.18	7.7	55	4.5	68.1

Analyte:	Magnesium	Potassium	Sodium	Calcium Hardness	Magnesium Hardness	Total Hardness
MDL and Units:	.02 MG/L	2 MG/L	.3 MG/L	0.2 MG/L	0.08 MG/L	0.08 MG/L
Limit:						
=====	=====	=====	=====	=====	=====	=====
JANUARY -2003	29.3	13.0	168	166	120	286
FEBRUARY -2003	26.5	14.2	165	147	109	256
MARCH -2003	34.1	9.9	189	185	140	325
APRIL -2003	30.0	13.4	178	172	123	295
MAY -2003	27.3	9.0	126	174	112	286
JUNE -2003	26.4	5.1	136	163	108	271
JULY -2003	28.1	13.6	173	161	115	276
AUGUST -2003	30.2	15.6	180	189	124	313
SEPTEMBER-2003	30.3	8.0	193	168	124	292
OCTOBER -2003	29.5	11.8	181	176	121	297
NOVEMBER -2003	30.1	14.0	185	183	123	306
DECEMBER -2003	27.9	11.8	179	159	114	273
=====	=====	=====	=====	=====	=====	=====
Annual Average:	29.1	11.6	171	170.3	120	290

Analyte:	Total Dissolved Solids	Lithium	Cobalt	Molybdenum	Vanadium
MDL and Units:	42 MG/L	.01 MG/L	4 MG/L	3 MG/L	7 MG/L
Limit:	1200				
=====	=====	=====	=====	=====	=====
JANUARY -2003	918	ND	NR	NR	NR
FEBRUARY -2003	931	0.02	ND	<3	ND
MARCH -2003	951	0.05	ND	<3	ND
APRIL -2003	881	0.03	NR	NR	NR
MAY -2003	874	0.01	ND	<3	ND
JUNE -2003	959	0.03	ND	<3	ND
JULY -2003	934	0.06	ND	<3	ND
AUGUST -2003	954	0.03	ND	<3	ND
SEPTEMBER-2003	931	0.02	ND	NR	NR
OCTOBER -2003	909	0.02	ND	<3	ND
NOVEMBER -2003	893	0.02	ND	<3	ND
DECEMBER -2003	903	0.03	ND	NR	ND
=====	=====	=====	=====	=====	=====
Annual Average:	919.8	0.03	ND	<3	ND

ND= Not Detected  
NR= Not Required