

City of San Diego

Annual Report 2005 - North City Water Reclamation Plant - Reclaimed Water - Annual & Monthly Averages

North City Water Reclamation Plant Annual Monitoring Report

2005

Sampled by: North City Operators
Analyzed by: NLC, LEC, LDP, KLW, VEB, ACD, KG

N34-Reclaimed Water

Month	Biochemical Oxygen Demand (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	pH Grab (pH)
JAN	<2	992	ND	ND	7.49
FEB	ND	898	ND	ND	7.54
MAR	ND	890	ND	ND	7.59
APR	<2	936	<1.6	ND	7.5
MAY	<2	967	ND	ND	7.41
JUN	<2	1090	<1.6	<1.6	7.65
JUL	<2	1080	<1.6	<1.6	7.41
AUG	<2	1060	ND	ND	7.42
SEP	<2	886	ND	ND	7.45
OCT	<2	926	<1.6	ND	7.48
NOV	<2	988	ND	ND	7.39
DEC	ND	1020	ND	ND	7.39
Average	<1.5	978	<0.533	<0.267	7.48

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Analyte:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL and Units:	6.6 UG/L	1.02 UG/L	0.4 UG/L	0.0202 UG/L	0.0395 UG/L	1.1 UG/L
Limit:	1000	6	50	1000	4	700
=====	=====	=====	=====	=====	=====	=====
JANUARY -2005	59	ND	1.02	58	ND	313
FEBRUARY -2005	58	ND	0.76	39	ND	403
MARCH -2005	7	ND	1.03	36	ND	369
APRIL -2005	179	ND	0.98	41	ND	319
MAY -2005	28	2	1.02	32	ND	413
JUNE -2005	29	2	0.99	40	ND	441
JULY -2005	24	<1	0.63	35	ND	375
AUGUST -2005	78	ND	0.81	65	ND	409
SEPTEMBER-2005	137	2	0.64	55	ND	434
OCTOBER -2005	44	ND	0.48	41	ND	386
NOVEMBER -2005	162	ND	0.66	50	ND	434
DECEMBER -2005	30	ND	0.50	77	ND	331
=====	=====	=====	=====	=====	=====	=====
Annual Average:	70	<1	0.79	47	ND	386

Analyte:	Cadmium	Chromium	Copper	Iron	Manganese	Mercury
MDL and Units:	0.195 UG/L	0.189 UG/L	0.393 UG/L	0.785 UG/L	0.0494 UG/L	0.095 UG/L
Limit:	5	50		300	50	2
=====	=====	=====	=====	=====	=====	=====
JANUARY -2005	ND	2.3	25	67	71	ND
FEBRUARY -2005	1.2	1.0	12	53	91	ND
MARCH -2005	0.2	2.5	9	58	78	ND
APRIL -2005	ND	1.1	34	50	97	ND
MAY -2005	0.2	0.4	5	135	148	ND
JUNE -2005	0.2	2.5	57	146	105	ND
JULY -2005	ND	0.2	20	93	144	ND
AUGUST -2005	0.3	1.0	24	45	92	ND
SEPTEMBER-2005	0.3	0.5	28	57	93	ND
OCTOBER -2005	ND	ND	7	136	97	ND
NOVEMBER -2005	0.2	1.5	22	145	180	ND
DECEMBER -2005	0.4	ND	31	90	123	ND
=====	=====	=====	=====	=====	=====	=====
Annual Average:	0.3	1.1	23	90	110	ND

Analyte:	Nickel	Selenium	Thallium	Chloride	Fluoride	Sulfate
MDL and Units:	0.268 UG/L	0.28 UG/L	1.81 UG/L	7 MG/L	.05 MG/L	9 MG/L
Limit:	100	50	2	300	1	300
=====	=====	=====	=====	=====	=====	=====
JANUARY -2005	5	0.95	ND	231	0.5	248
FEBRUARY -2005	7	0.65	ND	269	0.3	173
MARCH -2005	8	0.75	ND	224	0.5	212
APRIL -2005	5	0.61	ND	237	0.2	191
MAY -2005	7	0.74	ND	249	0.3	211
JUNE -2005	7	0.89	ND	244	0.4	232
JULY -2005	4	0.64	ND	266	0.5	239
AUGUST -2005	6	0.80	ND	243	0.2	237
SEPTEMBER-2005	5	0.74	ND	225	0.4	208
OCTOBER -2005	5	0.70	ND	208	0.3	201
NOVEMBER -2005	8	0.80	ND	309	0.4	249
DECEMBER -2005	6	1.52	ND	216	0.4	255
=====	=====	=====	=====	=====	=====	=====
Annual Average:	6	0.82	ND	243	0.4	221

ND= Not Detected
 NA= Not Analyzed
 NS= Not Sampled

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Analyte:	Total Cyanides	MBAS Surfactants	Organic Carbon	Percent Sodium	Total Adjusted Sodium Adsorption	Calcium
MDL and Units:	.002 MG/L	.03 MG/L	0.250 MG/L	Calculated	Calculated	0.034 MG/L
Limit:	0.2				6	
=====	=====	=====	=====	=====	=====	=====
JANUARY -2005	0.0084	0.14	7.6	52	4.4	81.5
FEBRUARY -2005	0.0090	0.13	9.0	61	5.6	58.8
MARCH -2005	0.0118	0.16	9.4	57	4.4	71.8
APRIL -2005	0.0159	0.19	8.6	57	5.1	70.4
MAY -2005	0.0132	0.15	8.8	55	4.9	79.2
JUNE -2005	0.0156	0.14	11.9	53	4.4	77.0
JULY -2005	0.0135	0.16	8.8	55	4.9	78.4
AUGUST -2005	0.0100	0.17	8.8	55	4.7	73.7
SEPTEMBER-2005	0.0029	0.14	8.1	60	5.2	59.6
OCTOBER -2005	0.0073	0.12	6.9	58	4.6	62.8
NOVEMBER -2005	0.0161	0.15	9.3	55	4.9	71.3
DECEMBER -2005	0.0038	0.09	6.6	50	4.4	80.8
=====	=====	=====	=====	=====	=====	=====
Annual Average:	0.0106	0.15	8.7	56	4.8	72.1

	Magnesium	Potassium	Sodium	Calcium Hardness	Magnesium Hardness	Total Hardness
	.014 MG/L	.04 MG/L	.223 MG/L	0.2 MG/L	0.08 MG/L	0.08 MG/L
=====	=====	=====	=====	=====	=====	=====
JANUARY -2005	35.7	10.9	178	204	146	350
FEBRUARY -2005	27.7	11.6	202	147	114	261
MARCH -2005	34.0	12.5	203	180	139	319
APRIL -2005	33.0	12.8	199	176	135	311
MAY -2005	35.7	14.1	202	198	146	344
JUNE -2005	33.1	12.4	176	193	136	329
JULY -2005	35.7	13.5	199	196	146	342
AUGUST -2005	32.8	13.2	189	184	135	319
SEPTEMBER-2005	27.5	12.5	188	149	113	262
OCTOBER -2005	28.3	11.9	181	157	116	273
NOVEMBER -2005	33.0	11.6	186	178	135	313
DECEMBER -2005	34.8	12.1	168	202	143	345
=====	=====	=====	=====	=====	=====	=====
Annual Average:	32.6	12.4	189	180	134	314

	Total Dissolved Solids	Lithium	Cobalt	Molybdenum	Vanadium
	42 MG/L	.001 MG/L	.162 UG/L	.122 UG/L	.4755 UG/L
=====	=====	=====	=====	=====	=====
JANUARY -2005	992	0.03	ND	6.5	1.0
FEBRUARY -2005	898	0.02	ND	6.7	0.6
MARCH -2005	890	<0.00	ND	7.1	1.7
APRIL -2005	936	0.03	1	6.8	1.8
MAY -2005	967	0.03	ND	6.6	0.9
JUNE -2005	1090	0.03	ND	8.2	1.1
JULY -2005	1080	0.04	1	6.3	0.9
AUGUST -2005	1060	0.05	0	13.1	0.5
SEPTEMBER-2005	886	0.04	ND	8.4	0.7
OCTOBER -2005	926	0.04	ND	6.7	ND
NOVEMBER -2005	988	0.05	ND	10.1	1.0
DECEMBER -2005	1020	0.04	ND	5.9	ND
=====	=====	=====	=====	=====	=====
Annual Average:	978	<0.03	0.190	7.70	0.850

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