

RP-1 Recycled Water Quality (2023)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	7.0	7.3
Turbidity	NTU	0.7	0.6	0.8
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	731	608	776
TDS	mg/L	432	410	448
TOC	mg/L	6.9	6.7	7.4
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
TIN	mg/L	3.9	2.7	5.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	126	126	126
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	45	40	53
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	107	103	111
Fluoride	mg/L	0.2	0.2	0.2
Magnesium	mg/L	9	7	10
Sodium	mg/L	88	79	100
Sulfate	mg/L	84	84	84
Total Hardness	mg/L as CaCO ₃	148	129	169
TR Aluminium	µg/L	147	86	200
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	15	12	20
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Chromium	µg/L	0.7	<0.5	1.0
TR Copper	µg/L	4	2	5
TR Lead	µg/L	<0.5	<0.5	0.5
TR Manganese	µg/L	8	3	18
TR Mercury	µg/L	<0.025	<0.025	<0.025
TR Nickel	µg/L	3	3	4
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	31	21	37
Silica	mg/L	22	15	27

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring

RP-4 Recycled Water Quality (2023)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	7.0	7.3
Turbidity	NTU	0.5	0.4	0.7
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	690	567	739
TDS	mg/L	406	382	430
TOC	mg/L	6.0	5.6	6.5
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
TIN	mg/L	4.2	3.0	7.3
Boron	mg/L	0.4	0.3	0.4
Calcium	mg/L	39	34	46
Chloride	mg/L	106	103	108
Fluoride	mg/L	0.2	0.2	0.2
Magnesium	mg/L	9	7	11
Sodium	mg/L	88	79	99
Sulfate	mg/L	49	49	49
Total Hardness	mg/L as CaCO ₃	135	111	154
Silica	mg/L	22	17	29

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring

RP-5 Recycled Water Quality (2023)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	7.0	7.3
Turbidity	NTU	0.9	0.6	1.3
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	939	872	1,037
TDS	mg/L	540	504	595
TOC	mg/L	5.0	4.6	5.6
NH ₃ -N	mg/L	<0.1	<0.1	0.2
TIN	mg/L	5.9	4.6	8.0
Bicarbonate Alkalinity	mg/L as CaCO ₃	128	128	128
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	61	53	78
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	173	166	179
Fluoride	mg/L	0.2	0.1	0.2
Magnesium	mg/L	14	12	19
Sodium ³	mg/L	107	100	112
Sulfate ³	mg/L	56	51	61
Total Hardness	mg/L as CaCO ₃	212	187	271
TR Aluminium	µg/L	<25	<25	<25
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	38	26	46
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Chromium	µg/L	0.6	<0.5	0.7
TR Copper	µg/L	5	2	6
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	12	2	27
TR Mercury	µg/L	<0.025	<0.025	<0.025
TR Nickel	µg/L	3	2	4
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	33	27	38
Silica	mg/L	20	18	21

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring

³ Effluent value reported will be higher than RW due to dechlorination chemicals.

CCWRF Recycled Water Quality (2023)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	6.9	6.8	7.1
Turbidity	NTU	0.6	0.5	0.8
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	820	741	893
TDS	mg/L	474	434	507
TOC	mg/L	6.5	6.0	7.2
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
TIN	mg/L	5.3	4.0	5.9
Bicarbonate Alkalinity	mg/L as CaCO ₃	117	117	117
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	47	33	75
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	145	141	149
Fluoride	mg/L	0.2	0.2	0.2
Magnesium	mg/L	11	9	12
Sodium ³	mg/L	109	101	124
Sulfate ³	mg/L	77	63	90
Total Hardness	mg/L as CaCO ₃	160	145	178
TR Aluminium	µg/L	108	47	172
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	13	8	17
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Chromium	µg/L	0.7	<0.5	1.8
TR Copper	µg/L	5	4	7
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	3	2	9
TR Mercury	µg/L	<0.025	<0.025	<0.025
TR Nickel	µg/L	3	2	3
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	32	21	45
Silica	mg/L	15	6	18

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring

³ Effluent value reported will be higher than RW due to dechlorination chemicals.

IEUA Recycled Water Quality (2023) ¹

Parameter	Units	Average ²	Minimum ²	Maximum ²
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	6.8	7.3
Turbidity	NTU	0.7	0.4	1.3
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ³	µmhos/cm	795	567	1037
TDS	mg/L	463	382	595
TOC	mg/L	6.1	4.6	7.4
NH ₃ -N	mg/L	<0.1	<0.1	0.2
TIN	mg/L	4.8	2.7	8.0
Bicarbonate Alkalinity	mg/L as CaCO ₃	124	117	128
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	48	33	78
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	132	103	179
Fluoride	mg/L	0.2	0.1	0.2
Magnesium	mg/L	11	7	19
Sodium	mg/L	98	79	124
Sulfate	mg/L	66	49	90
Total Hardness	mg/L as CaCO ₃	164	111	271
TR Aluminium	µg/L	93	<25	200
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	22	8	46
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Chromium	µg/L	0.7	<0.5	1.8
TR Copper	µg/L	5	2	7
TR Lead	µg/L	<0.5	<0.5	0.5
TR Manganese	µg/L	8	2	27
TR Mercury	µg/L	<0.025	<0.025	<0.025
TR Nickel	µg/L	3	2	4
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	32	21	45
Silica	mg/L	20	6	29

¹ IEUA RW quality includes RP-1, RP-4, RP-5, and CCWRF. Some RW customers may receive RW from each of these facilities dependent upon regional demands

² Average, Minimum, and Maximum values based on monthly averages

³ EC values based on 24-hour composite lab samples, not continuous monitoring

RP-1/RP-4 Recycled Water Quality (2023)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	7.0	7.3
Turbidity	NTU	0.6	0.4	0.8
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	710	567	776
TDS	mg/L	419	382	448
TOC	mg/L	6.5	5.6	7.4
NH ₃ -N	mg/L	<0.1	<0.1	0.1
TIN	mg/L	4.1	2.7	7.3
Bicarbonate Alkalinity	mg/L as CaCO ₃	126	126	126
Boron	mg/L	0.3	0.3	0.2
Calcium	mg/L	42	34	53
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	106	103	111
Fluoride	mg/L	0.2	0.2	0.2
Magnesium	mg/L	9	7	11
Sodium	mg/L	88	79	100
Sulfate	mg/L	67	49	84
Total Hardness	mg/L as CaCO ₃	141	111	169
TR Aluminium (RP-1 Only)	µg/L	147	86	200
TR Arsenic (RP-1 Only)	µg/L	<2	<2	<2
TR Barium (RP-1 Only)	µg/L	15	12	20
TR Cadmium (RP-1 Only)	µg/L	<0.25	<0.25	<0.25
TR Chromium (RP-1 Only)	µg/L	0.7	<0.5	1.0
TR Copper (RP-1 Only)	µg/L	4	2	5
TR Lead (RP-1 Only)	µg/L	<0.5	<0.5	0.5
TR Manganese (RP-1 Only)	µg/L	8	3	18
TR Mercury (RP-1 Only)	µg/L	<0.05	<0.05	<0.05
TR Nickel (RP-1 Only)	µg/L	3	3	4
TR Selenium (RP-1 Only)	µg/L	<2	<2	<2
TR Silver (RP-1 Only)	µg/L	<0.25	<0.25	<0.25
TR Zinc (RP-1 Only)	µg/L	31	21	37
Silica	mg/L	22	15	29

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring