COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
LABORATORY ACCREDITATION NUMBER: 100228

1st Quarter

PARAMETER	IEPA MCL	DETERMINED AS	STORET NUMBER	Sample Date	2/25/2019	2/25/2019	2/25/2019	2/27/2019	2/25/2019	2/25/2019	2/25/2019	2/26/19 2/27/2019	2/26/2019
				LAB ID Nos.	19C1693	19C1694	19C1695	19C1783-19C1788	19C1672	19C1673	19C1674	19C1721-23 19C1789-90	19C1716-19C1720
					SOUTH WATER PURIFICATION PLANT				JARDINE WATER PURIFICATION PLANT				
					1	2A	2B	3	4	5A	5B	6	7
					RAW	OUTLETS		***DISTRIBUTION	RAW	OUTLETS		***DISTRIBUTION	
					LAKE	73rd Street	79th Street	SOUTH	LAKE	North	Central	Central	North
TEMPERATURE		°C	00010		4	3	3	7	2	2	3	5	8
TURBIDITY	TT	N.T.U.	82079		0.70	0.10	0.10	0.15	0.90	0.10	0.10	0.20	0.20
THRESHOLD ODOR, STRAIGHT	*3	T.O.N	00086		1 M	2 Cc	2 Cc	1 Cc	1 M	2 Cc	1 Cc	1 Cc	1 Cc
THRESHOLD ODOR, DECHLORINATED	*3	T.O.N.			1 M	1 M	1 M	1 M	1 M	1 M	1 M	1 M	1 M
COLOR	*15	Pt.-Co. CU	00080		9	1	0	1	6	2	1	1	3
pH	*6.5-8.5	STD. Units	00040		8.2	7.8	7.8	7.9	8.2	7.8	7.8	7.9	7.8
FREE CHLORINE RESIDUAL		CL_2, mg/L	50064		ND	1.27	1.31	0.88	ND	1.22	1.13	0.99	0.85
SATURATION INDEX, LANGELIER		UNITS +/-			-0.14	-0.54	-0.53	-0.36	-0.23	-0.52	-0.52	-0.34	-0.35
ALKALINITY, PHENOLPHTHALEIN		0	00415		0	0	0	0	0	0	0	0	0
ALKALINITY, TOTAL		CaCO3, mg/L	00410		118	115	117	111	114	108	110	115	110
CONDUCTIVITY		uS/cm			306	320	319	320	310	318	319	321	317
BROMIDE		Br, mg/L	71870		O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S
CHLORIDE	*250	Cl, mg/L	00940		O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S
FLUORIDE	4	F, mg/L	00951		0.115	0.724	0.720	0.706	0.118	0.733	0.742	0.732	0.740
SULFATE	*250	SO4, mg/L	00945		O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S
HARDNESS		CaCO3, mg/L	00900		144	146	140	145	143	146	145	147	144
CALCIUM		Ca, mg/L	00916		35.1	35.1	35.1	35.8	35.4	35.9	36.5	35.8	35.5
MAGNESIUM		Mg, mg/L	00927		12.4	12.5	12.4	12.7	12.6	12.7	12.9	12.7	12.6
POTASSIUM		K, mg/L	00937		1.29	1.31	1.32	1.34	1.31	1.40	1.43	1.36	1.34
SODIUM		Na, mg/L	00006		8.55	9.33	9.40	9.47	9.22	10.2	10.4	10.3	9.97
SOLIDS, TOTAL DISSOLVED	*500	TDS, mg/L	00150		141	138	105	150	157	152	142	125	138
SOLIDS, TOTAL		Tot. Sol., mg/L	00500		196	161	173	175	209	182	209	180	171
TOTAL ORGANIC CARBON		TOC, mg/L	00680		1.77	1.50	1.49	1.52	1.74	1.50	1.50	1.56	1.48
OXYGEN DEMAND, CHEMICAL		O, mg/L	00335		6.8	5.3	4.4	5.7	6.0	4.8	4.9	4.0	5.6
NITROGEN, AMMONIA		N, mg/L	00610		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
NITROGEN, NITRATE	10	N, mg/L	00620		O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S
NITROGEN, NITRITE	1	N, mg/L	00615		O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S
ORTHOPHOSPHATE		PO4, mg/L	00660		0.060	0.695	0.591	0.636	0.060	0.530	0.541	0.541	0.539
PHOSPHATE, TOTAL		PO4, mg/L	00650		0.019	1.35	1.22	1.22	0.018	1.17	1.19	1.18	1.15
CYANIDE, TOTAL***	200	CN, ug/L	00720		<12	<12	<12	<12	<12	<12	<12	<12	<12

* Federal Primary/Secondary MCLs ** Action Level TT - Treatment Technique ND - not detected Distribution samples results are averages

O/S - Instrument out of Service R - Data rejected ***Cyanide - LFM Did not meet QC Criteria

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WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
LABORATORY ACCREDITATION NUMBER: 100228

1st Quarter

PARAMETER	IEPA MCL	DETERMINED AS	STORET NUMBER	Sample Date	2/25/2019	2/25/2019	2/25/2019	2/27/2019	2/25/2019	2/25/2019	2/25/2019	2/26/19 2/27/2019	2/26/2019
				LAB ID Nos.	19C1693	19C1694	19C1695	19C1783-19C1788	19C1672	19C1673	19C1674	19C1721-23 19C1789-90	19C1716-19C1720
					SOUTH WATER PURIFICATION PLANT				JARDINE WATER PURIFICATION PLANT				
					1	2A	2B	3	4	5A	5B	6	7
					RAW	OUTLETS		***DISTRIBUTION	RAW	OUTLETS		***DISTRIBUTION	
					LAKE	73rd Street	79th Street	SOUTH	LAKE	North	Central	Central	North
ALUMINUM	*50-200	Al, µg/L	01105		137	320	65.1	31.3	32.4	52.0	52.7	47.6	44.4
ANTIMONY	6	Sb, µg/L	01268		<1	<1	<1	<1	<1	<1	<1	<1	<1
ARSENIC	10	As, µg/L	01002		<1	<1	<1	<1	<1	<1	<1	<1	<1
BARIUM	2000	Ba, µg/L	01007		20.3	20.3	19.7	18.8	20.4	20.0	19.6	19.3	18.9
BERYLLIUM	4	Be, µg/L	01012		<1	<1	<1	<1	<1	<1	<1	<1	<1
BORON		B, µg/L	01022		28.7	37.9	26.4	25.2	24.7	25.1	24.7	24.9	24.6
CADMIUM	5	Cd, µg/L	01027		<1	<1	<1	<1	<1	<1	<1	<1	<1
CHROMIUM	100	Cr, µg/L	01034		1.16	1.12	1.10	1.05	1.02	<1	1.25	1.00	<1
COBALT		Co, µg/L	01037		<1	<1	<1	<1	<1	<1	<1	<1	<1
COPPER	**1300	Cu, µg/L	01042		2.35	1.23	<1	2.69	<1	<1	<1	1.18	2.90
IRON	*300	Fe, µg/L	00031		23.3	12.4	1.97	7.17	18.4	<1	<1	7.62	12.9
LEAD	**15.0	Pb, µg/L	01051		<1	<1	<1	1.22	<1	<1	<1	2.59	<1
LITHIUM ***		Li, µg/L	01132		2.96	3.13	2.95	3.00	2.91	2.92	2.92	2.95	2.92
MANGANESE	*50	Mn, µg/L	01055		<1	<1	<1	<1	<1	<1	<1	<1	1.60
MERCURY	2	Hg, µg/L	71900		<0.5	<0.5	<0.5	0.178	<0.5	<0.5	<0.5	0.505	<0.5
MOLYBDENUM		Mo, µg/L	01062		<1	1.02	1.02	1.01	1.00	1.00	1.00	1.02	<1
NICKEL		Ni, µg/L	01067		<1	<1	<1	<1	<1	<1	<1	<1	<1
SELENIUM	50	Se, µg/L	01147		<1	<1	<1	<1	<1	<1	<1	<1	<1
SILICON		Si, µg/L	01142		1212	1339	1354	1375	1253	1380	1368	1358	1361
SILVER	*100	Ag, µg/L	01077		<1	<1	<1	<1	<1	<1	<1	<1	<1
STRONTIUM		Sr, µg/L	01082		124	128	126	127	128	126	126	128	126
THALLIUM	2	Tl, µg/L	01059		<1	<1	<1	<1	<1	<1	<1	<1	<1
TITANIUM		Ti, µg/L	01152		1.13	2.23	1.93	1.47	1.19	1.86	1.94	1.41	1.35
VANADIUM		V, µg/L	00985		<1	<1	<1	<1	<1	<1	<1	<1	<1
ZINC	*5000	Zn, µg/L	01092		30.4	82.1	8.93	9.09	<1	<1	<1	21.0	31.4

* Federal Primary/Secondary MCLs ** Action Level TT - Treatment Technique ND - not detected Distribution samples results are averages

***Lithium - LFM did not meet QC Criteria

CHIEF WATER CHEMIST DIRECTOR OF LABORATORIES MANAGER OF WATER QUALITY DEPUTY COMMISSIONER

COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
LABORATORY ACCREDITATION NUMBER: 100228

2nd Quarter

PARAMETER	IEPA MCL	DETERMINED AS	STORET NUMBER	Sample Date	6/3/2019	6/3/2019	6/3/2019	6/5/19-6/6/19	6/3/2019	6/3/2019	6/3/2019	6/5/19-6/6/19	6/5/2019
				LAB ID Nos.	19C5031	19C5033	19C5034	19C5197-5199 19C5264-5266	19C5027	19C5029	19C5030	19C5194-5196 19C5200-5267	19C5189-19C5193
					SOUTH WATER PURIFICATION PLANT				JARDINE WATER PURIFICATION PLANT				
					1	2A	2B	3	4	5A	5B	6	7
					RAW LAKE	OUTLETS		***DISTRIBUTION	RAW LAKE	OUTLETS		***DISTRIBUTION	
						73rd Street	79th Street	SOUTH		North	Central	Central	North
TEMPERATURE ‡		°C	00010		10	11	12	17	9	9	10	16	16
TURBIDITY	TT	N.T.U.	82079		0.45	0.05	0.05	0.16	0.65	0.05	0.05	0.10	0.11
THRESHOLD ODOR, STRAIGHT ‡	*3	T.O.N	00086		1 M	1 Cc	1 Cc	1 Cc	1 M	1 Cc	1 Cc	1 Cc	1 Cc
THRESHOLD ODOR, DECHLORINATED ‡	*3	T.O.N.			1 M	1 M	1 M	1 M	1 M	1 M	1 M	1 M	1 M
COLOR (Apparent) ‡	*15	Pt.-Co. ACU	00080		4	2	0	1	6	2	1	1	1
pH	*6.5-8.5	STD. Units	00040		8.3	7.9	7.9	8.0	8.3	7.9	7.9	8.0	7.9
FREE CHLORINE RESIDUAL ‡		CL_2, mg/L	50064		ND	1.25	1.31	0.81	ND	1.12	1.13	0.86	0.83
SATURATION INDEX, LANGELIER ‡		UNITS +/-			0.20	-0.55	-0.55	-0.06	0.26	-0.54	-0.49	-0.10	-0.14
ALKALINITY, PHENOLPHTHALEIN		0	00415		1	0	0	0	1	0	0	0	0
ALKALINITY, TOTAL		CaCO3, mg/L	00410		107	101	101	101	106	101	101	100	100
CONDUCTIVITY		uS/cm			306	310	310	308	303	310	311	306	307
BROMIDE ‡		Br, mg/L	71870		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CHLORIDE	*250	Cl, mg/L	00940		16.1	17.7	17.7	17.7	15.7	17.4	17.4	17.1	17.4
FLUORIDE	4	F, mg/L	00951		<0.5	0.79	0.78	0.77	<0.5	0.71	0.71	0.72	0.72
SULFATE	*250	SO4, mg/L	00945		21.8	24.5	24.6	24.4	21.8	25.4	25.2	24.7	24.6
HARDNESS		CaCO3, mg/L	00900		137	135	138	138	139	135	136	135	135
CALCIUM		Ca, mg/L	00916		34.8	35.2	35.4	36.2	35.4	35.7	35.2	35.8	35.9
MAGNESIUM ‡		Mg, mg/L	00927		12.5	12.6	12.7	12.9	12.8	12.9	12.7	12.9	12.9
POTASSIUM ‡		K, mg/L	00937		1.29	1.35	1.35	1.40	1.32	1.37	1.35	1.36	1.37
SODIUM ‡		Na, mg/L	00006		10.0	10.6	10.6	10.9	10.0	10.6	10.4	10.4	10.5
SOLIDS, TOTAL DISSOLVED	*500	TDS, mg/L	00150		168	172	174	154	163	172	170	147	163
SOLIDS, TOTAL		Tot. Sol., mg/L	00500		180	184	186	179	172	185	181	179	183
TOTAL ORGANIC CARBON		TOC, mg/L	00680		1.76	1.70	1.69	1.64	1.84	1.65	1.64	1.60	1.71
OXYGEN DEMAND, CHEMICAL ‡		O, mg/L	00335		6.86	5.93	6.57	9.42	6.36	5.72	6.49	7.20	6.75
NITROGEN, AMMONIA ‡		N, mg/L	00610		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
NITROGEN, NITRATE ‡	10	N, mg/L	00620		0.300	0.291	0.292	0.287	0.285	0.284	0.285	0.279	0.285
NITROGEN, NITRITE	1	N, mg/L	00615		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
ORTHOPHOSPHATE		PO4, mg/L	00660		<0.06	0.741	0.527	0.639	<0.06	0.496	0.518	0.557	0.552
PHOSPHATE, TOTAL		PO4, mg/L	00650		<0.06	1.32	1.05	1.16	<0.06	1.12	1.12	1.11	1.11
CYANIDE, TOTAL	200	CN, ug/L	00720		<12	<12	<12	<12	<12	<12	<12	<12	<12

* Federal Primary/Secondary MCLs ** Action Level TT - Treatment Technique ND - not detected Distribution samples results are averages

H - Holding Time Exceeded R - Data rejected ‡ - Non-NELAP Accredited Dist. Central Samples for Cyanide did not meet LFM QC criteria

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WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
LABORATORY ACCREDITATION NUMBER: 100228

2nd Quarter

PARAMETER	IEPA MCL	DETERMINED AS	STORET NUMBER	Sample Date	6/3/2019	6/3/2019	6/3/2019	6/5/19-6/6/19	6/3/2019	6/3/2019	6/3/2019	6/5/19-6/6/19	6/5/2019
				LAB ID Nos.	19C5031	19C5033	19C5034	19C5197-5199 19C5264-5266	19C5027	19C5029	19C5030	19C5194-5196 19C5200-5267	19C5189-19C5193
					SOUTH WATER PURIFICATION PLANT				JARDINE WATER PURIFICATION PLANT				
					1	2A	2B	3	4	5A	5B	6	7
					RAW	OUTLETS		***DISTRIBUTION	RAW	OUTLETS		***DISTRIBUTION	
					LAKE	73rd Street	79th Street	SOUTH	LAKE	North	Central	Central	North
ALUMINUM	*50-200	Al, µg/L	01105		17.5	86.0	88.9	78.5	21.6	100	103	83.1	77.9
ANTIMONY	6	Sb, µg/L	01268		<1	<1	<1	<1	<1	<1	<1	<1	<1
ARSENIC	10	As, µg/L	01002		<1	<1	<1	<1	<1	<1	<1	<1	<1
BARIUM	2000	Ba, µg/L	01007		20.0	19.7	20.1	20.5	20.3	20.3	20.4	20.4	20.3
BERYLLIUM	4	Be, µg/L	01012		<1	<1	<1	<1	<1	<1	<1	<1	<1
BORON ‡		B, µg/L	01022		23.4	24.2	24.2	24.9	23.9	24.2	24.3	24.3	24.3
CADMIUM	5	Cd, µg/L	01027		<1	<1	<1	<1	<1	<1	<1	<1	<1
CHROMIUM	100	Cr, µg/L	01034		1.27	1.20	1.01	<1	<1	1.24	1.29	<1	1.15
COBALT ‡		Co, µg/L	01037		<1	<1	<1	<1	<1	<1	<1	<1	<1
COPPER	**1300	Cu, µg/L	01042		1.17	<1	<1	<1	<1	<1	6.83	<1	1.05
IRON	*300	Fe, µg/L	00031		7.50	<1	<1	8.58	12.5	<1	<1	8.71	14.6
LEAD	**15.0	Pb, µg/L	01051		<1	<1	<1	<1	<1	<1	<1	<1	<1
LITHIUM ‡		Li, µg/L	01132		<1	1.08	2.03	2.36	2.29	2.00	<1	1.49	2.43
MANGANESE	*50	Mn, µg/L	01055		<1	<1	<1	<1	<1	<1	<1	<1	<1
MERCURY	2	Hg, µg/L	71900		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MOLYBDENUM		Mo, µg/L	01062		1.01	<1	1.01	<1	1.03	1.01	1.00	<1	<1
NICKEL		Ni, µg/L	01067		<1	<1	<1	<1	<1	<1	<1	<1	<1
SELENIUM	50	Se, µg/L	01147		<1	<1	<1	<1	<1	<1	<1	<1	<1
SILICON		Si, µg/L	01142		765	948	930	917	725	882	881	874	864
SILVER	*100	Ag, µg/L	01077		<1	<1	<1	<1	<1	<1	<1	<1	<1
STRONTIUM ‡		Sr, µg/L	01082		116	116	118	118	115	116	116	116	116
THALLIUM	2	Tl, µg/L	01059		<1	<1	<1	<1	<1	<1	<1	<1	<1
TITANIUM ‡		Ti, µg/L	01152		<1	1.46	1.19	1.29	<1	1.22	1.24	1.20	1.18
VANADIUM ‡		V, µg/L	00985		<1	<1	<1	<1	<1	<1	<1	<1	<1
ZINC	*5000	Zn, µg/L	01092		<1	<1	<1	6.58	<1	<1	<1	24.6	17.3

* Federal Primary/Secondary MCLs ** Action Level TT - Treatment Technique ND - not detected Distribution samples results are averages

‡ - Non-NELAP Accredited

CHIEF WATER CHEMIST DIRECTOR OF LABORATORIES MANAGER OF WATER QUALITY DEPUTY COMMISSIONER

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3rd Quarter

PARAMETER	IEPA MCL	DETERMINED AS	STORET NUMBER	Sample Date	7/29/2019	7/29/2019	7/29/2019	8/1/2019	7/29/2019	7/29/2019	7/29/2019	7/30/19, 8/1/19, 8/2/19	7/30/2019
				LAB ID Nos.	19C7554	19C7556	19C7557	19C7833-19C7838	19C7550	19C7552	19C7553	19C7686-19C7688, 19C7839, 19C7904	19C7681-19C7685
					SOUTH WATER PURIFICATION PLANT				JARDINE WATER PURIFICATION PLANT				
					1	2A	2B	3	4	5A	5B	6	7
					RAW	OUTLETS		***DISTRIBUTION	RAW	OUTLETS		***DISTRIBUTION	
					LAKE	73rd Street	79th Street	SOUTH	LAKE	North	Central	Central	North
TEMPERATURE ‡		°C	00010		12	11	12	NA	12	11	11	20	21
TURBIDITY	TT	N.T.U.	82079		0.40	0.10	0.10	0.20	0.55	0.10	0.10	0.15	0.15
THRESHOLD ODOR, STRAIGHT ‡	*3	T.O.N	00086		1 Df	1 Cc	1 Cc	1 Cc	1 Df	1 Cc	1 Cc	1 Cc	1 Cc
THRESHOLD ODOR, DECHLORINATED ‡	*3	T.O.N.			1 Df	1 M	1 M	1 M	1 Df	1 M	1 M	1 M	1 M
COLOR (Apparent) ‡	*15	Pt.-Co. ACU	00080		7	4	5	1	7	1	<1	<1	<1
pH	*6.5-8.5	STD. Units	00040		8.3	7.9	7.9	7.9	8.4	7.8	7.9	7.9	8.0
FREE CHLORINE RESIDUAL ‡		CL_2, mg/L	50064		ND	1.28	1.29	NA	ND	1.29	1.27	NA	0.79
SATURATION INDEX, LANGELIER ‡		UNITS +/-			0.14	-0.28	-0.27	NA	0.24	-0.40	-0.31	-0.04	-0.02
ALKALINITY, PHENOLPHTHALEIN		0	00415		5	0	0	0	3	0	0	0	0
ALKALINITY, TOTAL		CaCO3, mg/L	00410		110	107	107	102	108	103	103	111	111
CONDUCTIVITY		uS/cm			295	299	299	300	292	298	299	300	299
BROMIDE ‡		Br, mg/L	71870		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CHLORIDE	*250	Cl, mg/L	00940		13.0	14.8	14.8	16.4	12.8	14.5	14.5	16.2	15.9
FLUORIDE	4	F, mg/L	00951		<0.5	0.75	0.73	0.75	<0.5	0.66	0.66	0.69	0.68
SULFATE	*250	SO4, mg/L	00945		21.4	23.9	23.8	26.8	21.3	24.8	24.7	27.8	27.4
HARDNESS		CaCO3, mg/L	00900		137	135	135	136	136	135	136	136	136
CALCIUM		Ca, mg/L	00916		32.8	33.4	32.9	32.9	32.9	32.9	32.7	32.8	32.6
MAGNESIUM ‡		Mg, mg/L	00927		12.0	12.2	12.1	12.0	12.0	12.0	11.9	12.0	11.9
POTASSIUM ‡		K, mg/L	00937		1.26	1.36	1.29	1.32	1.26	1.28	1.28	1.29	1.27
SODIUM ‡		Na, mg/L	00006		7.95	8.57	8.40	8.45	7.88	8.17	8.16	8.26	8.12
SOLIDS, TOTAL DISSOLVED	*500	TDS, mg/L	00150		167	167	171	167	161	169	169	163	165
SOLIDS, TOTAL		Tot. Sol., mg/L	00500		189	192	193	182	189	194	191	184	187
TOTAL ORGANIC CARBON		TOC, mg/L	00680		1.84	1.86	1.87	1.80	1.92	1.79	1.84	1.70	1.68
OXYGEN DEMAND, CHEMICAL ‡		O, mg/L	00335		8.40	8.71	7.09	7.00	9.94	6.47	8.68	7.73	7.19
NITROGEN, AMMONIA ‡		N, mg/L	00610		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
NITROGEN, NITRATE ‡	10	N, mg/L	00620		0.258	0.244	0.243	0.229	0.250	0.252	0.251	0.242	0.235
NITROGEN, NITRITE	1	N, mg/L	00615		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
ORTHOPHOSPHATE		PO4, mg/L	00660		<0.06	0.774	0.605	0.736	<0.06	0.479	0.495	0.535	0.537
PHOSPHATE, TOTAL		PO4, mg/L	00650		<0.06	1.34	1.12	1.23	<0.06	0.970	0.962	0.976	0.953
CYANIDE, TOTAL	200	CN, ug/L	00720		<12	<12	<12	<12	<12	<12	<12	<12	<12

* Federal Primary/Secondary MCLs ** Action Level TT - Treatment Technique ND - not detected Distribution samples results are averages

H - Holding Time Exceeded R - Data rejected ‡ - Non-NELAP Accredited Nitrogen-Nitrite - LFM did not meet QC Criteria for North, South & Central Districts

NA - Not Available

COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
LABORATORY ACCREDITATION NUMBER: 100228

3nd Quarter

PARAMETER	IEPA MCL	DETERMINED AS	STORET NUMBER	Sample Date	7/29/2019	7/29/2019	7/29/2019	8/1/2019	7/29/2019	7/29/2019	7/29/2019	7/30/19-8/2/19	7/30/2019
				LAB ID Nos.	19C7554	19C7556	19C7557	19C7833-7838	19C7550	19C7552	19C7553	19C7686-7688 19C7839-7904	19C7681-19C7685
					SOUTH WATER PURIFICATION PLANT				JARDINE WATER PURIFICATION PLANT				
					1	2A	2B	3	4	5A	5B	6	7
					RAW	OUTLETS		***DISTRIBUTION	RAW	OUTLETS		***DISTRIBUTION	
					LAKE	73rd Street	79th Street	SOUTH	LAKE	North	Central	Central	North
ALUMINUM	*50-200	Al, µg/L	01105		14.9	153	156	129	17.5	118	121	119	105
ANTIMONY	6	Sb, µg/L	01268		<1	<1	<1	<1	<1	<1	<1	<1	<1
ARSENIC	10	As, µg/L	01002		<1	<1	<1	<1	<1	<1	<1	<1	<1
BARIUM	2000	Ba, µg/L	01007		20.1	19.2	19.2	19.5	20.0	19.5	19.2	19.2	19.1
BERYLLIUM	4	Be, µg/L	01012		<1	<1	<1	<1	<1	<1	<1	<1	<1
BORON ‡		B, µg/L	01022		23.2	23.3	23.7	23.6	23.4	23.4	23.5	23.3	23.2
CADMIUM	5	Cd, µg/L	01027		<1	<1	<1	<1	<1	<1	<1	<1	<1
CHROMIUM	100	Cr, µg/L	01034		1.21	1.22	1.08	<1	<1	1.16	1.20	<1	<1
COBALT ‡		Co, µg/L	01037		<1	<1	<1	<1	<1	<1	<1	<1	<1
COPPER	**1300	Cu, µg/L	01042		1.51	<1	<1	<1	<1	<1	<1	<1	1.82
IRON	*300	Fe, µg/L	00031		8.53	1.60	1.00	14.2	10.2	<1	<1	9.85	18.1
LEAD	**15.0	Pb, µg/L	01051		<1	<1	<1	<1	<1	<1	<1	<1	<1
LITHIUM ‡		Li, µg/L	01132		2.66	2.59	2.76	2.61	2.49	2.29	2.32	2.89	2.54
MANGANESE	*50	Mn, µg/L	01055		<1	<1	<1	<1	<1	<1	<1	<1	1.22
MERCURY	2	Hg, µg/L	71900		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MOLYBDENUM		Mo, µg/L	01062		<1	<1	<1	<1	<1	<1	<1	<1	<1
NICKEL		Ni, µg/L	01067		2.51	2.49	2.47	2.80	2.48	2.44	2.41	2.62	2.59
SELENIUM	50	Se, µg/L	01147		<1	<1	<1	<1	<1	<1	<1	<1	<1
SILICON		Si, µg/L	01142		811	934	925	913	852	965	960	940	952
SILVER	*100	Ag, µg/L	01077		<1	<1	<1	<1	<1	<1	<1	<1	<1
STRONTIUM ‡		Sr, µg/L	01082		110	110	109	109	112	108	108	108	110
THALLIUM	2	Tl, µg/L	01059		<1	<1	<1	<1	<1	<1	<1	<1	<1
TITANIUM ‡		Ti, µg/L	01152		<1	1.98	1.66	1.83	<1	1.50	1.48	1.48	1.48
VANADIUM ‡		V, µg/L	00985		<1	<1	<1	<1	<1	<1	<1	<1	<1
ZINC	*5000	Zn, µg/L	01092		<1	<1	<1	4.72	6.34	1.38	<1	31.7	19.0

* Federal Primary/Secondary MCLs ** Action Level TT - Treatment Technique ND - not detected Distribution samples results are averages

‡ - Non-NELAP Accredited

CHIEF WATER CHEMIST DIRECTOR OF LABORATORIES MANAGER OF WATER QUALITY DEPUTY COMMISSIONER