JUNE 2019



PIPELINE is a community newsletter published by the Lakeside Water District.

LAKESIDE WATER DISTRICT'S PATH TO ASSET MANAGEMENT

Lakeside Water District was formed in August 1924. At that time, its mission was to provide water to the optimistic 90 customers living in the historical town center of Lakeside. By 1925, the Board had passed a \$35,000 bond to fund its first infrastructure projects: a 200,000 gallon reservoir located on Castle Court Drive and 15,500 linear feet of water main through the downtown streets of Julian, Maine, Park(side), Laurel, Sycamore (Lakeshore) and River Street. The sources of supply were from the Lakeside Heights Flume and Pipeline Company, and a well located along the San Diego River where our offices are currently located on Vine Street.

When Lakeside Water District was founded, Riverview Mutual Water Company and Lakeside Farms Mutual Company had already been in existence for a number of years, providing water to the farms in their respective service areas. Water was plentiful in the river valley and large concrete pipes were installed throughout the area to provide the water needed to serve the area's farmers.

In the late 1800s and early 1900s, the Lakeside area was the hub of activity in East County. Home to the famous Lakeside Inn, the area was a thriving tourist destination. The District installed pipelines and added customers until the Great Depression of the 1930s. The optimism turned to a grim seriousness that proved to be a challenge for the area's water agencies. Keeping customers and maintaining revenue proved difficult to do. The District struggled, but as we moved into the 1940s and, with the war effort ramping up, San Diego and surrounding areas began growing again.

The City of San Diego completed El Capitan Reservoir in 1935 and, less than ten years later, a lengthy drought had dropped groundwater levels, which forced the District to look beyond local supplies to keep up with the growing demand.

In 1944 Lakeside Water District was one of nine original members to form the

San Diego County Water Authority. This enabled county water agencies to divide up the area's secured water rights from the Colorado River and receive delivery through a newly built aqueduct with only three weeks local supply remaining.

A firm entitlement to imported water, allowed Lakeside's population to increase rapidly, requiring more pipelines, reservoirs, and pump stations to serve the growing service area. As the next four decades of growth continued, the water system evolved and expanded into the system we have today.

Currently, we have approximately 125 miles of pipeline, ranging in size from 4-24 inches, twelve water storage reservoirs with a capacity of 14 million gallons, twelve pump stations, and one active groundwater treatment plant. The current replacement value is estimated at approximately \$160 million.

With this large infrastructure in place, the District developed a 100-year "Asset Management Plan" in 2014 to maintain the infrastructure for safe and reliable operation and to continue the high level of service our customers demand.

Lakeside Water District – A Plan to Serve

Lakeside Water District is a California Special District formed under California Irrigation District law to provide water service to the community of Lakeside. Special districts are created by the people of the community to meet specific service needs for their communities. Most perform a single function such as water or sewer service, fire protection, healthcare, or even cemetery management. As a California Independent Special District, we are a form of local government.

Special districts are not cities or counties, or state government. Special districts work hand-in-hand with cities and counties to provide communities with essential public service to keep pace with the demands of the community. As an Irrigation District, we operate under a specific section of the California Water Code.

The assets of the District are governed by an elected Board of Directors serving four-year terms. The Board has determined that asset management is a top priority and targets approximately \$1,500,000 per year to stay on schedule rehabilitating or replacing those assets.

Annually, the district analyzes each asset class and prioritizes which project should be included in the District's 5 year capital improvement plan. This plan specifically identifies projects and proposed costs that may be included in the District's annual budget. Special Districts are funded either through local property tax revenues or fees charged to customers for their services, or a combination the two. Special districts that rely primarily on fees for service are considered enterprise agencies.

Some capital improvements can be done in conjunction with developer or County projects, but most are accomplished through a bidding process that combines District work and contractor work to complete a project. On most projects District crews will perform advance work to prepare the system for the planned project.

So as the District moves through the community with annual construction projects, please bear with us and rest assured that the overall goal is to stay in check with the District's 100-year Asset Management Plan, using steady and comprehensive analysis of the condition of District facilities to make sound operation and maintenance decisions.

LAKESIDE WATER DISTRICT BOARD OF DIRECTORS

President:	Steve Johnson				
Vice President:	Steve Robak				
Directors:	Frank Hilliker				
	Pete Jenkins				
	Eileen Neumeister				
General Manager:	Brett Sanders				
Poard montings are hold at the District office					

Board meetings are held at the District office the first Tuesday of each month at 5:30 p.m.

LAKESIDE WATER DISTRICT CONSUMER CONFIDENCE REPORT

Test Results from Calendar Year 2018

(Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo o hable con alguien que lo entienda bien.)

		STATE	PHG (MCLG)	STATE	RANGE	LAKESIDE	HELIX	SKINNER	
PARAMETER	UNITS	[MRDL]	[MRDLG]	DLR	AVERAGE	WELLS	PLANT	PLANT	MAJOR SOURCES IN DRINKING WATER
Percent State					RANGE	NA	NR	0-84%	
Project Water	%	NA NA	NA	NA	Average	NA	20%	34%	Lakeside Water District's major water source is SDCWA-treated
CLAPITY	KY HEALIF	I-KELATED STAI	NDAKDS						SUFFACE WATER VIA HEIIX WATER DISTRICT
Combined Filter	NTU	0.3			HIGHEST	0.19	ND-0.12	0.08	
Effluent Turbidity	%	95 (a)	NA	NA	% < 0.35	100%	100%	100%	Soil runoff
MICROBIOLOGICAL									
Total Coliform Bacteria (b)			(2)		RANGE	0	NR	NA	Naturally present in the environment
Distribution System-wide	%	5.0	(0)	NA	AVERAGE	0 ND	NR	NA	Human and animal focal wacto
E. CON Distribution System-wide	(c)	(c)	(0)	NA	AVERAGE	ND	NR	NA	Human and annual lecal waste
INORGANIC CHEMICALS	(0)								
					RANGE	ND	63-440	ND-100	Residue from water treatment process; erosion of natural deposits
Aluminum (Al) (d)	ppb	1000	600	50	HIGHEST RAA	ND	225	51	
					RANGE	ND	ND-2.1	ND	Erosion of natural deposits, glass and electronics production wastes
Arsenic (AS)	ррь	10	0.004	2	AVERGE	ND 50.150	ND	ND	Ail and motal refineries discharges erection of natural denosits
Barium (Ba)	daa	1000	2000	100	AVERAGE	115	NR	ND	on and metal remenes discharge, erosion of natural deposits
Flouride (e)	ppm	2.0	1	0.1	CONTROL RANGE	NA	NA	0.5-0.9	Water additive: Lakeside Water District has naturally occuring fluoride from erosion
Treatment-related					OPTIMAL LEVEL	NA	NA	0.7	of natural deposits
					RANGE	0.28-0.46	0.2-0.7	0.6-0.9	
					AVERAGE	0.36	0.6	0.7	
Nitrate (as N)	nnm	10 (as N)	10 (as N)	0.4		1.28	ND-027	ND	Runoff and leaching from fertilizer usage; septic tanks and sewage;
RADIOLOGICALS (k)	ppin	10 (03 14)	10 (03 14)	0.4	AVENAGE	1.20	ND	ND	
Gross Alpha					RANGE	1.8-12.1	5.3-8.0	ND-4	Erosion of natural deposits
Particle Activity	pCi/L	15	(0)	3	Average	7.9	6.5	ND	
Gross Beta			(2)		RANGE	ND	NR	ND-5	Decay of natural and man-made deposits
Particle Activity (f)	pCi/L	50	(0)	4	AVERAGE	ND	NR 1454	ND 2	Evering of natural dense its
Ilranium	nCi/l	20	0.43	1		5.1-9.2 6.47	1.4-5.4	ND-5	
DISINFECTION BY-PRODUCTS, DISINFECTA	NT RESIDI	JALS, AND DISI	NFECTION BY-PI		PRECURSORS (a)	0.17	5.5	ND	
Total Trihalomethanes (TTHM) (g) (l)					RANGE	19-45	NR	15-35	By-product of drinking water chlorination
Distribution System-wide	ppb	80	NA	1	HIGHEST LRAA	29	NR	24	
Haloacetic Acids (five) (HAA5) (g) (l)		~			RANGE	ND-9.9	NR	12.18	By-product of drinking water chlorination
Total Chlorine Residual	ррр	60	NA	1	RANCE RANCE	4 NA	NR	8.0 NA	Drinking water disinfectant treatment
(Chloramine)	nnm	[4 0]	[4 0]	NA	RAA	2.0	NR	NA	Diffiking water disinfectant treatment
DBP Precursors Control	- pp	[]	[110]		RANGE	NA	NR	2.0-2.7	Various natural and manmade sources
(TOC)	ppm	TT	NA	0.30	Average	NA	NR	2.4	
SECONDARY STANDARDS: AESTH	ETIC STAN	DARDS		1	-				
(hla-::d-		500	NA		RANGE	243-315	67-83	90-93	Runoff/leaching from natural deposits; seawater influence
Chloride	ррпі	500	INA	NA	RANGE	2/0	// ND_2	92 ND_1	Naturally occuring organic materials
Color	Units	15	NA	NA	AVERAGE	3.6	ND	ND	radulary occaring organic matchais
					RANGE	ND	ND	3	Naturally occuring organic materials
Odor Threshold (h)	TON	3	NA	1	AVERAGE	ND	ND	3	
Construction and the second					RANGE	1340-1660	580-908	841-851	Substances that form ions in water; seawater influence
	μS/cm	1600	NA	NA	AVERAGE	1513	/69	846	Pupoff/loaching from natural donocite: industrial waste
Sulfate (SQ)	nnm	500	NA	0.5	AVERAGE	200-210	141	100-175	Kulon/leaching noni natural deposits, industrial waste
Total Dissolved Solids	ppm	500	101	0.5	RANGE	862-1050	560	510-526	Runoff/leaching from natural deposits; industrial wastes
(TDS)	ppm	1000	NA	NA	Average	969	560	518	
					DANCE				
Turbidity (a)		-			NAINGE	0.1-0.9	NR	ND	Soil runoff
OTHER PARAMETERS	NTU	5	NA	NA	AVERAGE	0.1-0.9 0.37	NR NR	ND ND	Soil runoff
CHEMICAL	NTU	5	NA	NA	AVERAGE	0.1-0.9 0.37	NR NR	ND ND	Soil runoff
CHEMICAL	NTU	5	NA	NA	AVERAGE	0.1-0.9 0.37 197-242	NR NR 96-127	ND ND 104-109	Soil runoff
CHEMICAL Alkalinity (CaCO,)	NTU ppm	5 NA	NA	NA	AVERAGE RANGE AVERAGE	0.1-0.9 0.37 197-242 225	NR NR 96-127 114	ND ND 104-109 106	Soil runoff
CHEMICAL Alkalinity (CaCO ₃)	NTU ppm	5 NA	NA	NA	RANGE AVERAGE RANGE RANGE	0.1-0.9 0.37 197-242 225 69-82	NR NR 96-127 114 NR	ND ND 104-109 106 120	Soil runoff Runoff/leaching from natural deposits; industrial wastes
CHEMICAL Alkalinity (CaCO ₃) Boron (B)	NTU ppm ppb	5 NA NA	NA NA NL = 1000	NA NA 100	RANGE AVERAGE AVERAGE RANGE AVERAGE	0.1-0.9 0.37 197-242 225 69-82 75	NR NR 96-127 114 NR NR NR	ND ND 104-109 106 120 120	Soil runoff Runoff/leaching from natural deposits; industrial wastes
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca)	NTU ppm ppb	5 NA NA	NA NA NL = 1000	NA NA 100	AANGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110	NR NR 96-127 114 NR NR 34-66 51	ND ND 104-109 106 120 120 54-58	Soil runoff Runoff/leaching from natural deposits; industrial wastes
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca)	NTU ppm ppb ppm	5 NA NA NA	NA NA NL = 1000 NA	NA NA 100 NA	AANGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE RANGE RANGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND	NR NR 96-127 114 NR NR 34-66 51 ND-26	ND ND 104-109 106 120 120 54-58 56 43	Soil runoff Runoff/leaching from natural deposits; industrial wastes
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate	NTU ppm ppb ppm	5 NA NA NA	NA NA NL = 1000 NA NL = 800	NA NA 100 NA 20	AANGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE RANGE AVERAGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND	ND ND 104-109 106 120 120 54-58 56 43 43	Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate	NTU ppm ppb ppb	5 NA NA NA NA	NA NA NL = 1000 NA NL = 800	NA NA 100 NA 20	AANGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE RANGE AVERAGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND ND	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-04	ND ND 104-109 106 120 54-58 56 43 43 ND	Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate Chromium VI (i)	NTU ppm ppb ppb ppb	5 NA NA NA NA NA	NA NA NL = 1000 NA NL = 800 NA	NA NA 100 NA 20	AANGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND ND ND ND	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-04 ND	ND ND 104-109 106 120 54-58 56 43 43 ND ND	Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate Chromium VI (i) Corrosivity (i)	NTU ppm ppb ppb ppb ppb	5 NA NA NA NA NA	NA NA NL = 1000 NA NL = 800 NA	NA NA 100 NA 20 1	RANGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND ND ND ND NR NR NR NR	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-04 ND ND ND ND NR	ND ND 104-109 106 120 54-58 56 43 43 ND ND 12.3-12.4	Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well Elemental balance in water; affected by temperature, other factors
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate Chromium VI (i) Corrosivity (j) (Aggressiveness Index)	NTU ppm ppb ppb Al	5 NA NA NA NA NA NA	NA NA NL = 1000 NA NL = 800 NA NA	NA NA 100 NA 20 1 NA	RANGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE PANCE PANCE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND ND ND NR NR NR NR NR	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-04 ND NR NR 135-200	ND ND 104-109 106 120 54-58 56 43 43 ND ND 12.3-12.4 12.4 219-220	Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well Elemental balance in water; affected by temperature, other factors Runoff/leaching from natural deposits; municipal and inductival words discharges
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate Chromium VI (i) Corrosivity (j) (Aggressiveness Index) Hardness. Total	NTU ppm ppb ppb Al pnm	5 NA NA NA NA NA NA	NA NA NL = 1000 NA NL = 800 NA NA	NA NA 100 NA 20 1 NA	AANGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND NR NR NR NR NR NR NR 400-546 476	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-04 ND ND-04 ND NR NR 135-290 213	ND ND 104-109 106 120 54-58 56 43 43 ND ND 12.3-12.4 12.4 218-238 278	Soil runoff Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well Elemental balance in water; affected by temperature, other factors Runoff/leaching from natural deposits; municipal and industrial waste discharges
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate Chromium VI (i) Corrosivity (j) (Aggressiveness Index) Hardness, Total	NTU ppm ppb ppb ppb Al ppm	5 NA NA NA NA NA NA NA	NA NA NL = 1000 NA NL = 800 NA NA NA	NA NA 100 NA 20 1 NA NA	AANGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE RANGE RANGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND ND NR NR NR NR NR NR 400-546 42-56	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-04 ND ND-04 ND NR NR 135-290 213 17-23	ND ND 104-109 106 120 54-58 56 43 43 ND ND 12.3-12.4 12.4 218-238 21-22	Soil runoff Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well Elemental balance in water; affected by temperature, other factors Runoff/leaching from natural deposits; municipal and industrial waste discharges
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate Chromium VI (i) Corrosivity (j) (Aggressiveness Index) Hardness, Total Magnesium (Mg)	NTU ppm ppb ppb ppb Al ppm ppm	5 NA NA NA NA NA NA NA	NA NA NL = 1000 NA NL = 800 NA NA NA	NA NA 100 NA 20 1 NA NA NA	AARGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND ND NR NR NR NR NR 400-546 47-56 50	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-04 ND ND-04 ND NR NR 135-290 213 17-23 21	ND ND 104-109 106 120 54-58 56 43 43 ND ND 12.3-12.4 12.4 218-238 228 21-22 22	Soil runoff Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well Elemental balance in water; affected by temperature, other factors Runoff/leaching from natural deposits; municipal and industrial waste discharges
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate Chromium VI (i) Corrosivity (j) (Aggressiveness Index) Hardness, Total Magnesium (Mg)	NTU ppm ppb ppb ppb Al ppm ppm ppm	5 NA NA NA NA NA NA NA	NA NA NL = 1000 NA NL = 800 NA NA NA	NA NA 100 NA 20 1 NA NA NA	AARGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE RANGE RANGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND ND NR NR NR NR NR NR 400-546 47-56 50 7.02-7.13	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-26 ND ND-26 ND ND-04 NR NR 135-290 213 17-23 21 8.0-8.3	ND ND 104-109 106 120 54-58 56 43 43 ND ND 12.3-12.4 12.4 218-238 228 21-22 22 8.1-8.2	Soil runoff Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well Elemental balance in water; affected by temperature, other factors Runoff/leaching from natural deposits; municipal and industrial waste discharges
CHEMICAL Alkalinity (CaCO ₃) Boron (B) Calcium (Ca) Chlorate Chromium VI (i) Corrosivity (j) (Aggressiveness Index) Hardness, Total Magnesium (Mg) pH	NTU ppm ppb ppb ppb Al ppm ppm pH Units	5 NA NA NA NA NA NA NA NA	NA NA NL = 1000 NA NL = 800 NA NA NA NA NA	NA NA 100 NA 20 1 NA NA NA NA	AANGE AVERAGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE AVERAGE RANGE	0.1-0.9 0.37 197-242 225 69-82 75 88-129 110 ND ND ND ND ND NR NR NR NR 400-546 42-56 50 7.02-7.13 7.08 4 5	NR NR 96-127 114 NR NR 34-66 51 ND-26 ND ND-26 ND ND-26 ND ND-04 NR NR 135-290 213 17-23 21 8.0-8.3 8.1 2.0 4 ¢	ND ND 104-109 106 120 54-58 56 43 43 ND ND 12.3-12.4 12.4 218-238 228 21-22 22 8.1-8.2 8.2 8.2 4.4 5	Soil runoff Soil runoff Runoff/leaching from natural deposits; industrial wastes Byproduct of drinking water chlorination; industrial processes Industrial waste discharge; could be naturally present as well Elemental balance in water; affected by temperature, other factors Runoff/leaching from natural deposits; municipal and industrial waste discharges

					Range	127-163	54-82	85-92	
Sodium (Na)	ppm	NA	NA	NA	Average	148	72	88	
					Range	5-10	ND-2.7	ND	
Vanadium (V)	ppb	NA	NL = 50	3	Average	7	ND	ND	Various natural and manmade sources
N-Nitrosodimethylamine					Range	NA	NR	4.1	
(NDMA) Distribution System-wide	ppb	NA	3	2	Average	NA	NR	4.1	Naturally occuring; industrial waste discharge
								1	Byproduct of drinking water chlorination; industrial processes

Levels testing for lead and copper is required every three years. | Latest test: June 2016. Number of Sample Sites: 30.90th Percentile Levels: Lead (ppb) = ND; COPPER (ppm) = 0.22 Number of sites above action level of 15 ppb Lead, 1.3 ppm Copper = 0 | Number of schools served by Lakeside Water District that requested Lead sampling during the calendar year = 10

ABBREVIATIONS AND FOOTNOTES

ABBREVIATIONS	NTU Nephelometric Turbidity Units
Al Aggressiveness Index	P or ND Positive or Not Detected
AL Action Level	pCi/LpicoCuries per Liter
CFU Colony-Forming Units	PHGPublic Health Goal
DBP Disinfection By-Products	ppb parts per million or microgram
DLR Detection Limits for Reporting	ppm parts per million or milligrams
MCL Maximum Contaminant Level	ppg parts per quadrillion or picogr
MCLG Maximum Contaminant Level Goal	ppt parts per trillion or nanograms
MRDL Maximum Residual Disinfectant Level	RAA Running Annual Average
MRDLG Maximum Residual Disinfectant Level Goal	RTCR Revised Total Coliform Rule
NNitrogen	SISaturation Index (Langelier)
NANot Applicable	TOC Total Organic Carbon
NDNot Detected	TON Threshold Odor Number
NL Notification Level	TT Treatment Technique
NR Not Reportable	μS/cm micromho per centimeter (μm

- h crograms liter (µg/L) ligrams per lieter (mg/L) picograms per liter (pg/L) lograms per liter (ng/L) Rule Jelier)
- r

µS/cm micromho per centimeter (µmho/cm)

FOOTNOTES

- (a) The turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1 NTU at any time. Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance. The averages and ranges of turbidity shown in the Secondary Standards were based on the treatment plant effluent.
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive.
- (c) E. coli MCL: The occurrence of two consecutive total coliform-positive samples, one of which contains E. coli, constitutes an acute MCL violation. The MCL was not violated.
- (d) Aluminum has both primary and secondary standards.
- (e) MWD, Helix and Lakeside were in compliance with all provisions of the State's Fluoridation System Requirements.
- The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. (f) The screening level is 50 pCi/L.
- (g) MWD, Helix, and Lakeside were in compliance with all provisions of the Stage 1 Disinfectants/Disinfection By-Products (D/DBP) Rule. Compliance was based on the RAA.
- Metropolitan utilizes a flavor-profile analysis method that can detect odor occurrences more accurately. (h)
- (i) Chromium VI reporting level is 0.03 ppb.
- Al <10.0) = highly aggressive and very corrosive water; Al >12.0 = non-aggressive water; Al 10.0 11.9 = moderately aggressive water. (j)
- (k) Radiological sampling is required only every third year.
- Helix THM and HAA5 available upon request from Helix Water District. (1)

DEFINITIONS

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminate Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminate Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLs are set by California Environmental Protection Agency (CalEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there are no known or expected health risks. PHGs are set by the CalEPA.

Primary Drinking Water Standard (PDWS): MCLs and MRDLs for contaminants that affect health, along with their monitoring, reporting, and water treatment requirements.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Regulatory Action Level: The concentration of a contminant which, if exceeded, triggers treatment or other recourse that a water system must follow.

WATER QUALITY NOTICE Failure to Monitor Violation: This notification is required by the California Code of Regulations, Title 22 Section 64534(g). We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During calendar year 2018, we did not monitor for Disinfection By-Products as required by the Stage 2 Disinfectants and Disinfection Byproducts Rule (DBPR) during February 2018, and therefore, cannot be sure of the quality of your drinking water during that time. After noticing the error on April 10, 2018 we notified the State Water Resources Control Board immediately, and upon their direction sampled on April 12, 2018. The DBPR mandates testing for a group of chemicals associated with chlorine disinfection of the District's water supply four times per year in the months of February, May, August and November. The chemical groups tested for are total trihalomethanes and haloacetic acids. All sample results were under the Maximum Contaminant Level and there was never any public health risk, as the District has tested four times per year for over 30 years without ever exceeding the maximum contaminant level, which is calculated using a four guarter "running annual average".

BILL PAYMENT OPTIONS You will need your account number as it appears on your bill.

Online: www.lakesidewater.org Credit cards or e-checks. Automatic draft payments are free of charge. By Phone: (619) 443-3805, option 3

In Person: Monday–Friday, 8am to 5pm or, after hours, deposited in the **black drop box** in front of the office.

CONSUMER CONFIDENCE REPORT: Educational Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Lakeside Water District's groundwater source is the Santee-El Monte Basin, a groundwater source for many in our community. The basin provides good water guality that has small amounts of iron and manganese which we remove with a specially designed treatment plant located at our Administration and Operations facility at 10375 Vine Street, Lakeside. A source water assessment detailing potential sources of contamination completed in January 2010 is available for review upon request at the District office. The remainder of Lakeside Water District's water is imported from the Metropolitan Water District of Southern California and the San Diego County Water Authority. This water is treated at Metropolitan's Skinner Treatment Plant near Temecula and Helix Water District's Levy Treatment Plant. This water is a blend of water from the Colorado River System and the California State Water Project.

Contaminants that may be present in source water include:

- · Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturallyoccurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming. Note: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Lakeside Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information regarding lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Drinking Hotline or at http://www.epa.gov/safe water/lead]
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activates.

In order to ensure that tap water is safe to drink, the USEPA and the California State Water Resources Control Board (SWRCB) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. SWRCB regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water posses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/ Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

If you have any questions about the CCR or water quality in general, please call Lakeside Water District at 619-443-3805.



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CALIFORNIA LEGISLATIVE UPDATE

One of the most significant issues facing the California State Legislature this year is the issue of safe drinking water. In 2012, Governor Brown signed Assembly Bill 685 making it a law that every California citizen has the right "to safe, clean, affordable, and accessible water adequate for human consumption, cooking and sanitary purposes". This has opened up a legislative floodgate of laws that support this statute. There are approximately 9,000 water systems regulated in California. Of those, 329 systems regulated by the State Water Resources Control Board have been identified as serving contaminated water. The reasons vary, from unsound infrastructure to lack of financial, managerial or technical resources. The majority of these systems are small, rural systems that service less than 10,000 people.

The goal is to improve failing water systems and eliminate noncompliance to drinking water standards in disadvantaged communities throughout the state. Toward that end, the legislature has proposed a water tax on urban water user's to help fund solutions; it has been attached to a budget trailer bill titled "Environmental Justice – Safe and Affordable Drinking Water and Exide Cleanup".

The Association of California Water Agencies (ACWA), of which Lakeside

Water District is a member, opposes the tax and has proposed a funding mechanism through SB669 (Caballero) that institutes a perpetual trust fund to cover the estimated cost of \$150 million per year to assist disadvantaged communities.

Lakeside Water District, along with many other agencies, support SB669 (Caballero) and other funding methods to solve this problem. We welcome any support from District customers to avoid a "water tax" and encourage those who are interested to express their concerns to State Assemblyman, Randy Voepel, State Senator, Brian Jones, and to Governor Newsome.

ALMOND ROAD PIPELINE REPLACEMENT PROJECT

In 2018, Lakeside Water District completed the replacement of 4,500 lineal feet of 8" asbestos cement and steel pipeline. The project located through Almond Road and Walnut Road in the southern portion of the District was completed in a little over four months by local pipeline contractor Cass/Arrieta Construction of El Cajon. The total cost of the project was \$1,007,000. Our engineer was Dexter Wilson Engineering of Carlsbad, and inspection was done by District Operations staff.

This summer, Lakeside Water District will start another pipeline replacement project along Valle Vista Road from Johnson Lake Road to High Ridge Road, Serena Road and Vista Camino. This project will replace 5,100 lineal feet of 65-year-old asbestos cement pipe that is showing signs of age.

Construction will be divided into three phases to reduce the inconvenience to the property owners. Ample notice will be given before any outages or disruptions. The District contact for the project will be Quinn Johnze.