WATER QUALITY IN GUADALUPE

The City of Guadalupe is working to produce the highest quality drinking water for our customers.

The City receives water from two sources — ground water wells (from underground aquifers), and State surface water (through membership with Central Coast Water Authority). Both sources are monitored and assessed in accordance with government standards and monitoring requirements. Monitoring water quality and identifying potential problems is one of our primary goals. We are proud to say that the water delivered to your home in 2016 complied with all State and Federal drinking water regulations.

The City prepares an annual report to inform customers of the quality of water being delivered. This report may contain data from January 1, 2016 to December 31, 2016, though representative it may also contain results from sample data prior to 2016. Results show that the water delivered to your home complied with regulatory standards and is reliable for domestic use.

For more information about this report or for questions about any topic related to water and water quality, please contact Jaime Vidales, City of Guadalupe Water Department Supervisor, at (805) 356-3890.

Este informe contiene información importante sobre su agua de beber y como cumple con los estándares estatales y federales. Tradúzcalo o hable con alguien que lo entienda bien. Si no encuentra la manera de entender este reporte, por favor contacte a Jaime Vidales del departamento de agua de la Ciudad de Guadalupe al (805) 356-3890.



City of Guadalupe Obispo Boosting Station

The City of Guadalupe water system consists of two pumping stations, active and standby wells, three water storage tanks, and various water mains. Safe treatment and distribution of water is our daily goal, maintaining pumping stations, tanks, and water mains is vital to achieving that goal. The City also has security measures in place to ensure that our water supply is delivered to our residents safely and efficiently. Alarms, gates and locks protecting our water supply, are constantly monitored.



City of Guadalupe Elevated Water Tank

City of Guadalupe 2016

WATER QUALITY REPORT



This report provides information regarding the quality of drinking water for the City of Guadalupe during 2016. Included are details about where your water comes from, what it contains, and how it compares to established drinking water standards.



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CITY OF GUADALUPE ACTIVE SOURCE DETECTIONS FROM CITY WATER WELLS

		TABL	<mark>E 1 – SAMPLI</mark>	NG RESUL	TS FOR	MIC	ROBIOL (OGIC	CAL CO	NTA	MINATIC	ON
Microbial Con	ntaminant	Highest No. o Detections in month	No of Mon			MCL					PHG (MCLG)	Major Sources of Bacteria
Total Coliform Ba (state Total Colifo		(in a month)	0	0		5% of Monthly Samples Positive					0	Naturally Present in the Environment
Fecal Coliform or (state Total Colifo	E.coli	(In the year)	0		A routine sample and repeat sample detecting positive coliform, and either sample detects						0	Human and animal fecal waste
E.coli (federal Revised Total Coliform Rule)		(from 4/1/16 – 12-31 0	-16)	E.coli-			ples are total coliform-po n fails to take repeat samp ails to analyze total colifo E.coli		E.coli-positi	ve	0	Human and animal fecal waste
Lead and	*Date	No. of Sample	entile level				PH	HG			al Source of Contaminant	
Copper Lead (ppb)	6/2014	Collected 20		ected ND	0				0.2 Internal of		nal corrosion of household water plumbing systems; discharges from strial manufacturers; erosion of natural deposits	
Copper (ppb) 6/2014		20		89	0		1300	30	Internal corrosion of household plumbing systems: erosion			
			TABLE 3 – S	AMPLING	RESUL	rs fo	OR SODI	UM A	ND HA	RDN	ESS	
Chemical or Constituent (and reporting units)		*Sample Date	Average Level Detected	Range of l	Detections		MCL.		IG LG)	Typical Source of Contaminant		
Sodium (ppm)		4/10/12, 2/4/14	47	44 -	50	None		None		Salt present in the water and is generally naturally occurring		
Hardness (ppm)		4/10/12, 2/4/14	455	440 -	470	L	None 1			Sum of polyvalent cations present in the water, generally magnesiur calcium, and are usually naturally occurring		
	TABI	LE 4 – SAMPL	ING RESULT	S OF CONT	AMINA	NTS V	WITH PR	IMA			NG WATI	ER STANDARD
Chemical constituent (and units)		*Sample Date	Average Level Detected	Range of Detections		CL	PHG (MCLG)			Major Sour	ces in Drinking Water
Fluoride (ppm)		4/10/12, 2/4/14	0.23	0.21 - 0.24	2	.0	1		fertilizer an	of natural deposits; water additive that promotes strong teeth; discharge fro and aluminum factories		
Hexavalent Chromium (6) (ppb)		12/23/14	1.35	1.0 – 1.7	1	0	0.02		chemical sy	te from electroplating factories, leather tanneries, wood preservation, I synthesis, refractory production, and textile manufacturing facilities; of natural deposits		
Nitrate as N (ppm)		2/24/15, 2/9/16	1.24	.47 – 2.0	1	.0	10		Runoff and leaching fro erosion from natural dep		l deposits	use; leaching from septic tanks and sewage;
Nitrite as N (ppb)		4/10/12, 2/4/14	500	430 - 570	10	000	1000		Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion from natural deposits			
Total Chlorine Residual (ppm)		Daily-Year: 2016	1.54 (RAA)	0.42 - 2.03		DL = .0	MRDLG = 4.0		Drinking water disinfectant added for potable water treatment			
Uranium (pCi/L)		2014(avg), 1/12/16	3.82	3.23 – 4.4	2	20	0.43		Erosion of natural deposits			
Gross Alpha (pCi/L)		2014(avg), 1/12/16 5/13/14, 8/12/14	7.6	4.18 - 11 0049		.5 5	.019			on of natural deposits on of natural deposits		
Radium 228 (pCi/L)									NDARY DRINE			TED STANDARD
Chemical or constituent (and reporting units)		*Sample Date	Average Level Detected	Range of Detections	M	CL	PHG (MCLG			Major Sources in Drinking Water		
Chloride (ppm)		4/10/12, 2/4/14	19	17 - 21	50	00	N/A		Runoff/leaching from natural deposits; seawater influence			
Odor Threshold (TON)		4/10/12, 8/26/14	1	1 - 1		3	N/A		Naturally-occurring organic materials			
Iron (ppb)		4/10/12, 2/4/14	185	ND - 370	30	00	N/A		Leaching from natural deposits, industrial wastes			astrial wastes
Manganese (ppb)		4/10/12, 2/4/14	17	ND - 34	5	50	N/A		Leaching from natural deposits			
Specific Conductance (µmho/cm)		4/10/12, 2/4/14	940	920 - 960	16	500	N/A		Substances	Substances that form ions when in water; seawater influence		
C-10-4- ()	olide	4/10/12, 2/4/14 4/10/12, 2/4/14,	285	280 - 290	-	00	N/A			f/leaching from natural deposits; industrial wastes		· ·
Sulfate (ppm)	onus		610	540 - 690	10	000	N/A		Runoff/leac	unoff/leaching from natural deposits		
Total Dissolved So (TDS) (ppm)		5/13/14										
Total Dissolved So (TDS) (ppm) Total Suspended S (TSS) (ppm)		5/13/14 5-13-14	12	N/A	N	IA 5	NA N/A			hing fro	m natural deposi	its and soil runoff
Total Dissolved So (TDS) (ppm) Total Suspended S		5/13/14 5-13-14 4/10/12, 8/26/14	12 0.66	0.11 – 1.20	N	5	N/A		Soil runoff			its and soil runoff
Total Dissolved Sc (TDS) (ppm) Total Suspended (TSS) (ppm) Turbidity (NTU) Chemical constituent (and	Solids	5/13/14 5-13-14 4/10/12, 8/26/14	12	0.11 – 1.20	SULTS (5	N/A	ATEI	Soil runoff		INANTS	tts and soil runoff
Total Dissolved S. (TDS) (ppm) Total Suspended (TSS) (ppm) Turbidity (NTU) Chemical constituent (and units Alkalinity (ppm)	or reporting	5/13/14 5-13-14 4/10/12, 8/26/14 TA *Sample Date 4/10/12, 2/4/14	12 0.66 ABLE 6 – SAM Average Level Detected	0.11 – 1.20 PLING RE Range of Detections	SULTS (5 OF UN IL /A	N/A NREGUL PHG (MCLG	ATEI	Soil runoff CONT	FAM:	INANTS Major Sour m natural deposi	
Total Dissolved Sc (TDS) (ppm) Total Suspended (TSS) (ppm) Turbidity (NTU) Chemical constituent (and units	or reporting	5/13/14 5-13-14 4/10/12, 8/26/14 TA *Sample Date	0.66 ABLE 6 – SAM Average Level Detected	0.11 – 1.20 PLING RE Range of Detections	SULTS (5 OF UN IL /A	N/A NREGUL PHG (MCLG	ATEI	Soil runoff CONT Runoff/leac (No source	FAM	INANTS Major Sour m natural deposi	ces in Drinking Water
Total Dissolved S. (TDS) (ppm) Total Suspended S. (TSS) (ppm) Turbidity (NTU) Chemical constituent (and units Alkalinity (ppm) Bicarbonate (ppm)	or reporting	5/13/14 5-13-14 4/10/12, 8/26/14 TA *Sample Date 4/10/12, 2/4/14 4/10/12, 2/4/14 4/10/12, 2/4/14 Non-Corrosive	12 0.66 ABLE 6 – SAM Average Level Detected 215 255	0.11 – 1.20 PLING RE Range of Detections 210 - 220 250 - 260 99 - 100 Non-Corrosiv	SULTS (5 OF UN IL /A /A	N/A NREGUL PHG (MCLG N/A N/A	ATEI	Runoff/leac (No source Runoff/leac Natural or i water; affec	hing froidentifie	Major Sour m natural deposi d) m natural deposi lly-influenced ba emperature and o	ces in Drinking Water its; seawater influence its; seawater influence diance of hydrogen, carbon and oxygen in the other factors.
Total Dissolved Si (TDS) (ppm) Total Suspended (TSS) (ppm) Turbidity (NTU) Chemical constituent (and units Alkalinity (ppm) Bicarbonate (ppm) Calcium (ppm) Corrosivity (SI) Magnesium (ppm	or reporting	5/13/14 5-13-14 4/10/12, 8/26/14 *Sample Date 4/10/12, 2/4/14 4/10/12, 2/4/14 4/10/12, 2/4/14 Non-Corrosive 4/10/12, 2/4/14	12 0.66 ABLE 6 - SAM Average Level Detected 215 255 99.5 Non-Corrosive 47	0.11 – 1.20 PLING RE Range of Detections 210 - 220 250 - 260 99 - 100 Non-Corrosiv	SULTS (N N N N N N N N N N N N N N N N N N N	5	N/A NREGUL PHG (MCLG N/A N/A N/A N/A N/A	ATEI	Runoff/leac (No source Runoff/leac Natural or i water; affec Runoff/leac	hing froidentifies	INANTS Major Sour m natural deposi d) m natural deposi lly-influenced ba emperature and c m natural deposi	ces in Drinking Water its; seawater influence its; seawater influence lance of hydrogen, carbon and oxygen in the other factors. its; seawater influence
Total Dissolved S: (TDS) (ppm) Total Suspended: (TSS) (ppm) Turbidity (NTU) Chemical constituent (and units Alkalinity (ppm) Bicarbonate (ppm Calcium (ppm) Corrosivity (SI)	or reporting	5/13/14 5-13-14 4/10/12, 8/26/14 TA *Sample Date 4/10/12, 2/4/14 4/10/12, 2/4/14 4/10/12, 2/4/14 Non-Corrosive	12 0.66 ABLE 6 - SAM Average Level Detected 215 255 99.5 Non-Corrosive	0.11 – 1.20 PLING RE Range of Detections 210 - 220 250 - 260 99 - 100 Non-Corrosiv	SULTS (N N N N N N N N N N N N N N N N N N N	5	N/A NREGUL PHG (MCLG N/A N/A N/A N/A	ATEI	Runoff/leac (No source Runoff/leac Natural or i water; affec Runoff/leac Runoff/leac	hing fro identified hing fro ndustrial ted by the hing fro hing fro	INANTS Major Sour m natural deposi d) m natural deposi lly-influenced ba emperature and c m natural deposi m natural deposi	ces in Drinking Water its; seawater influence its; seawater influence diance of hydrogen, carbon and oxygen in the other factors.
Total Dissolved S. (TDS) (ppm) Total Suspended S. (TDS) (ppm) Total Suspended S. (TDS) (ppm) Turbidity (NTU) Chemical constituent (and units Alkalinity (ppm) Bicarbonate (ppm Calcium (ppm) Corrosivity (SI) Magnesium (ppm pH (units)	or reporting	5/13/14 5-13-14 4/10/12, 8/26/14 *Sample Date 4/10/12, 2/4/14 4/10/12, 2/4/14 4/10/12, 2/4/14 Non-Corrosive 4/10/12, 2/4/14 4/10/12, 2/4/14	12 0.66 ABLE 6 - SAM Average Level Detected 215 255 99.5 Non-Corrosive 47 7.55	0.11 – 1.20 PLING RE Range of Detections 210 - 220 250 - 260 99 - 100 Non-Corrosiv 47 - 47 7.5 – 7.6	SULTS (SOLUTION NO. NO. NO. NO. NO. NO. NO. NO. NO. N	5	N/A NREGUL PHG (MCLG N/A N/A N/A N/A N/A N/A N/A	ATEI	Soil runoff CONT Runoff/leac (No source Runoff/leac Natural or i water; affec Runoff/leac Runoff/leac Runoff/leac Babies of st notification studies in le	hing froidentified hing from hing fr	INANTS Major Sour m natural deposi d) m natural deposi lly-influenced ba emperature and ci m natural deposi m natural deposi m natural deposi m natural women wh ay have an increa y animals.	ces in Drinking Water its; seawater influence its; seawater influence itance of hydrogen, carbon and oxygen in the other factors. its; seawater influence its; seawater influence its; seawater influence its; seawater influence odrink water, containing boron in excess of the ased risk of developmental effects, based on
Total Dissolved Si (TDS) (ppm) Total Suspended (TSS) (ppm) Turbidity (NTU) Chemical constituent (and units Alkalinity (ppm) Bicarbonate (ppm Calcium (ppm) Corrosivity (SI) Magnesium (ppm pH (units) Potassium (ppm)	or reporting	5/13/14 5-13-14 4/10/12, 8/26/14 TA *Sample Date 4/10/12, 2/4/14 4/10/12, 2/4/14 4/10/12, 2/4/14 Non-Corrosive 4/10/12, 2/4/14 4/10/12, 2/4/14	12 0.66 ABLE 6 - SAM Average Level Detected 215 255 99.5 Non-Corrosive 47 7.55 2.6	0.11 – 1.20 PLING RE Range of Detections 210 - 220 250 - 260 99 - 100 Non-Corrosiv 47 - 47 7.5 – 7.6 2.5 - 2.7	SULTS (N N N N N N N N N N N N N N N N N N N	5	N/A NREGUL PHG (MCLG N/A	ATEI)	Soil runoff CONT Runoff/leac (No source Runoff/leac Natural or i water; affec Runoff/leac Runoff/leac Runoff/leac sunoff/leac sunoff/leac sunoff/leac babies of st sudies in la Babies of st	hing froidentified hing froidentified by to hing froidentified hings froident	Major Sour m natural deposi d) m natural deposi lly-influenced be emperature and c m natural deposi m natura	ces in Drinking Water its; seawater influence its; seawater influence dance of hydrogen, carbon and oxygen in the other factors. its; seawater influence its; seawater influence its; seawater influence its; seawater influence to drink water, containing boron in excess of the

^{*} The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old. If a contaminant is not in this report, the contaminant is either ND or below the DLR for 2015.

NOTE: All results represent raw water from our active water wells, except microbiological, Lead and Copper, Trihalomethanes and Haloacetic Acids, and Chlorine Residuals, which were taken at various distribution points in our water system.

PURCHASED SURFACE WATER CENTRAL COAST WATER AUTHORITY

			·	CIVIN	AL CUA	AST WATER	SOURCE	KII I			
Parameter	Units	State	PHG	State	Range	TREATED CCWA PPWTP	STATE	Major Sources in Drinking Water			
PRIMARY STANDARDS—I		MCL v Health-R	(MCLG) elated Standa	DLR rds	Average	0011111111	WATER	Major Boards at 21 many water			
Clarity (a)	NTU	,			D	0.03 – 0.11	N/A	T.			
Combined Filter Effluent Turbidity	NIU		1 NTU every 4 h of samples <0.		Range %	100%	NA NA	Soil runoff			
INORGANIC CHEMICALS		ı	1		Range	ND - 0.082	ND - 0.25	T			
Aluminum	ppm	1 (b)	0.6	0.05	Average	0.060	0.110	Residue from water Treatment process; Erosion of natural deposits			
Arsenic, Total	ppb	10	0.004	2	Range Average	ND ND	2.0	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes			
Fluoride	ppm	2.0	1	0.1	Range	ND ND	0.12 0.12	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories			
Nitrate as Nitrogen	ppm	10 (h)	10	0.4	Average Range	0.41	0.43	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage;			
RADIONUCLIDES	ppin	10 (11)	10	0.4	Average	0.41	0.43	erosion from natural deposits			
Gross Beta Particle	pCi/L	50	(0)	4	Range	ND	5.7	Decay of natural and man-made deposits			
DISTRIBUTION SYSTEM N	•		(0)		Average	ND	5.7	Deedy of matter and main made deposits			
Total Chlorine Residual	ppm	MRDL	MRDLG	NIA	Range	1.9 – 2.7	NA	Measurement of the disinfectant used in the production of drinking water			
Total Chlorine Residual	ppin	= 4.0	= 4.0	NA	Average	2.3 0 – 2.5%	NA NA	Weasurement of the distinction used in the production of drinking water			
Total Coliform Bacteria (c)		5.0% of monthly samples	(0)		Range Average	0.4%	NA NA	Naturally present in the environment			
					Highest	2.5%	NA				
	,		27.4	27.4	Range Average	31 - 60 48	NA NA	P. L. Girls and H. S.			
Total Trihalomethanes (d)	ppb	80	NA	NA	Highest	61.0	NA	By-product of drinking water chlorination			
					LRAA Range	4.1 – 14	NA				
Haloacetic Acids (d)	ppb	60	NA	(e)	Average Highest	8.1	NA	By-product of drinking water chlorination			
CECOND A DAY C'EA ND A DDC		- 11-			LRAA	11.8	NA				
SECONDARY STANDARDS—A Chloride	ppm	500	NA	NA	Range	41 – 138	11 – 136	Runoff/leaching from natural deposits; seawater influence			
					Average Range	97 ND	94 25				
Color	ACU	15	NA	NA	Average	ND Non	25 Non	Naturally-occurring organic materials			
Corrosivity (Aggressive Index)	None	None Corrosive	NA	NA	Range	Corrosive	Corrosive	Balance of hydrogen, carbon, & oxygen in water, affected by temperature &			
corrossing (riggressive index)			1,11		Average	Non Corrosive	Non Corrosive	other factors			
Odor Threshold	TON	3	NA	1	Range Average	ND ND	ND – 2 1.1	Naturally-occurring organic materials			
Specific Conductance	uS/cm	1600	NA	NA	Range	374 – 757	326 - 700	Substances that form ions when in water; seawater influence			
Sulfate		500	NA	NA	Average Range	609 100	544 71				
	ppm				Average Range	100 194 – 442	71 170 – 392	Runoff/leaching from natural deposits; industrial wastes			
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	Average	346	312	Runoff/leaching from natural deposits			
Turbidity (Monthly) (a)	NTU	5	NA	NA	Range Average	0.03 - 0.13 0.06	0.34 - 44 2.80	Soil runoff			
ADDITIONAL PARAMETERS (Alkalinity (Total) as CaCO ₃	Unregulated				Range	42 - 84	46 – 98	<u> </u>			
equivalents	ppm	NA	NA	NA	Average	66	74	Runoff/leaching from natural deposits; seawater influence			
Calcium	ppm	NA	NA	NA	Range Average	30 - 82 53	30 – 74 53	Runoff/leaching from natural deposits; seawater influence			
					Average Range	0.13 ND – 2	0.12 ND - 30	, , ,			
Geosmin	ng/L	NA	NA	NA	Average	1	3	(No source identified)			
Hardness (Total) as CaCO ₃	ppm	NA	NA	NA	Range Average	64 – 162 115	62 – 166 115	Leaching from natural deposits			
Heterotrophic Plate Count (f)	CFU/ mL	TT	NA	NA	Range Average	0 – 2 0.4	NA NA	Naturally present in the environment			
Magnesium	ppm	NA	NA	NA	Range	17	16	Runoff/leaching from natural deposits; seawater influence			
					Average Range	17 ND	16 15				
Manganese, Total	ppb	NA	NA	NA	Average Range	ND ND – 9	15 ND – 11	Runoff/leaching from natural deposits; seawater influence			
2-Methylisoborneal	ng/L	NA	NA	NA	Average	4	4	(No source identified)			
pН	pH Units	NA	NA	NA	Range Average	8.0 – 8.5 8.3	7.6 – 9.4 8.6	Runoff/leaching from natural deposits; seawater influence			
Potassium	ppm	NA	NA	NA	Range Average	4.0 4.0	3.9 3.9	Runoff/leaching from natural deposits; seawater influence			
Sodium	ppm	NA	NA	NA	Range	87	75	Runoff/leaching from natural deposits; seawater influence			
Total Organic Carbon (TOC)					Average Range	87 1.5 – 3.5	75 2.8 – 6.5				
(g) Footnotes: Abbreviations and Notes	ppm	TT	NA) Monochloroaceti	0.30	Average	2.3	4.0 = None Detected	Various natural and man-made sources			
a) Turbidity (NTU) is a measure of the clo		2.	0 ug/L while the o	ther four Hal	oacetic Acids hav	ve NTU	= Nephelometric Tu				
of the water and it is a good indicator of the effectiveness of our filtration system. Montl curbidity values are listed in the Secondary	(f)	DLR's of 1.0 ug/L. (f) Pour plate technique (g) TOCs are taken at the treatment plant's			PHG	pCi/L = PicoCuries per liter PHG = Public Health Goal ppb = parts per billion, or micrograms per liter					
urbidity values are listed in the Secondary Standards section. (b) Aluminum has a Secondary MCL of 0.2	CC) TOCs are taken imbined filter efflu) State MCL is 45	ent.		(μg/l	_)	r micrograms per liter or milligrams per liter				
c) Total coliform MCLs: Systems that collections ample/month no more than 5.0% of the m	c) Total coliform MCLs: Systems that collect ≥40 10					(mg/					
samples may be Total Coliform positive. So hat collect >40 per month no more than 1	A	_ = Regulatory Ac CU = Apparent Co CWA= Central Co	lor Units	uthority	LRA		ing Annual Average				
sample per month may be Total Coliform precal coliform/E.coli MCL's: The occurrence	ositive. ce of 2	CI	FU/ml = Colony Fo LR = Detection Le	orming Units	per milliliter	TON	l=Threshold Odor Nu c = Total Organic Car				
consecutive Total Coliform positive sample which contains fecal coliform/E.coli, constit	posecutive Total Coliform positive samples, one of hich contains fecal coliform/E.coli, constitutes an				evel Level Goal	TT = µmh	TOC = Total Organic Carbon TT = Treatment Technique umho/cm = micromhos per centimeter (unit of				
acute MCL violation.	M	RDL = Maximum			spec	µmho/cm = micromhos per centimeter (unit of specific conductance of water).					

(a) Turbidity (NTU) is a measure of the cloudiness of the water and it is a good indicator of the effectiveness of our filtration system. Monthly turbidity values are listed in the Secondary Standards section.

(b) Aluminum has a Secondary MCL of 0.2 ppm. (c) Total coliform MCLs: Systems that colled: 240 sample/month no more than 5.0% of the monthly samples may be Total Coliform positive. Systems that colled: 240 per month no more than 1 positive sample per month may be Total Coliform positive. Fecal coliform/E.coli MCL's: The occurrence of consecutive Total Coliform positive samples, one of which contains fecal coliform/E.coli, constitutes an acute MCL violation.

(d) Compliance based on the running quarterly annual average of distribution system samples.

MCL = Maximum Contaminant Level
MCLG = Maximum Contaminant Level Goal
MRDL = Maximum
MRDLG = Maximum
MRDLG = Maximum Residual Disinfectant Goal
NA = Not Applicable
NL=Notification Level

(Ig/L)
ppm = parts per million, or milligrams per liter
(mg/L)
RAA = Running Annual Average
LRAA = Locational Running Annual Average
SI = Saturation Index
TON=Threshold Odor Number
TOC = Total Organic Carbon
TT = Treatment Technique
pmho/cm = micromhos per centimeter (unit of specific conductance of water).

WHERE DOES YOUR WATER COME FROM?

The sources of safe drinking water (both tap water and bottled water) include rivers, streams, reservoirs, springs, and wells. As water travels over the surface of the earth or through the ground, it dissolves naturally occurring minerals and in some cases hazardous materials. It can also pick up substances resulting from human activity or the presence of animals.

In 2016, the City of Guadalupe drew 76% well water from our active wells within our city, and 24% surface water from the State water project (Central Coast Water Authority). Water from our wells is treated at our distribution center, then mixed in our reservoirs for distribution. Water from the State project is treated at the Polonio Pass Water Treatment Plant, and delivered directly to our tank. For more details on the treatment process of the State water project, please call the City of Guadalupe Water Department Supervisor at (805) 356-3890.

Contaminants that may be present in source water include:

- Microbial Contaminants, such as viruses and bacteria that may come from septic systems, sewage treatment plants, agricultural livestock, and wildlife.
- Inorganic contaminants, such as salts and metals that can be naturally-occurring or result from storm water runoff, industrial or domestic wastewater discharge, oil and gas production, mining, or farming
- Pesticides and herbicides, which may come from a variety of sources such as agricultural and urban storm water runoff as well as residential use.
- 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, agricultural applications, and septic systems.
- Radioactive contaminants which can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the United States Environmental Protection Agency (USEPA) and the State Water Resources Control Board, (SWRCB) prescribe regulations that limit the amount of certain contaminants in drinking water provided by public systems. USEPA and SWRCB regulations also establish limits for contaminants in bottled water.

Definitions

- Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to public health goals as economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.
- Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA.
- Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

- Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. The addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health.
- Primary Drinking Water Standards (PDWS): MCLs or MRDLs for contaminants that affect health along with their monitoring, reporting, and water treatment requirements.
- Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, and appearance of drinking water.
- Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
- Regulatory Action Level (AL): The concentration of a contaminant that a water system must not exceed.

Additional Information on Drinking Water

Drinking water, both tap water and bottled water, may reasonably contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a risk to health. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at the number below. Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-compromised persons such as cancer patients undergoing chemotherapy, persons who have undergone organ transplants, who have HIV/AIDS or other immune system disorders, and 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 and Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium or microbial contaminants are available from the Safe Drinking Water Hotline at 800-426-4791 or at www.epa.gov/safewater/resource.

City of Guadalupe-Chemicals Used for Disinfection

The City of Guadalupe uses both chlorine and chloramines as primary forms of disinfection. Chlorine and Chloramines are both state and federally approved forms of disinfection, but unlike chlorine, chloramines minimize disinfection byproduct formation. Another benefit of chloramines is improved taste of the drinking water as compared to chlorine. Chloramines are used by many water utilities. Chloramines have the same effect as chlorine for typical water use with the exception that chloramines must be removed from water used in kidney dialysis and for fish tanks and aquariums. Treatments to remove chloramines from water are different than treatments for removing chlorine. Please contact your physician or dialysis specialist for questions pertaining to kidney dialysis water treatment. Contact your pet store or veterinarian for questions regarding water used for fish and other aquatic life. You may also call 800-111-2222 for additional chloramine information.

City of Guadalupe Water Assessment

An assessment of the drinking water sources for the City of Guadalupe found that they are most vulnerable to the following activities associated with potential contaminants in the water supply – runoff and leaching from fertilizer use plus the erosion of natural mineral deposits.

Detection of Contaminants Summary

Nitrate: Due to high concentrations of Nitrates found in the water from one of our wells in the last few years, including 2016, the City does not regularly use this source and will only use this source in an emergency. Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such Nitrate levels in drinking water can interfere with the capacity of an infant's blood to carry oxygen, resulting in serious illness. Symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant or you are pregnant, you should ask advice from your health care provider.

Lead: 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. The City of Guadalupe is responsible for providing quality drinking water, but the City cannot control the variety of materials used in plumbing components. If the water in your home 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 do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. If you are concerned about lead in your water, you may want to have your home water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800-426-4791 or at http://www.epa.gov/safewater/lead

Trihalomethanes (THMs) and Haloacetic Acids (HAA5s): The City has been monitoring these contaminants with direction of state regulatory agencies, resulting in a detection of these contaminants in your water. THMs and HAA5s are disinfection byproducts that are produced when a disinfectant like chlorine, or chloramines, are added to the drinking water where organic matter is present. As a result of the two mixing together, they form byproducts. Some people who drink water containing THMs and HAA5s in excess of the MCL over many years may experience liver, kidney or central nervous problems and may have an increased risk of cancer. For more information on disinfection byproducts please call the Safe Drinking Water Hotline at 800-426-4791 or visit

http://water.epa.gov/drink/contaminants/basicinformation/disinfectionbyproducts.com

About Water Blending: The City combines well water with State surface water to offset any contaminants that may be present in either source and to ensure that the water delivered to your home meets all State and Federal drinking water standards. For questions: Please call Jaime Vidales at the City of Guadalupe Water Department, (805) 356-3890.

Public Participation Opportunities: The Guadalupe City Council meets every 2nd Tuesday of each month at 6pm at the Council Chambers located at 918 Obispo St. Guadalupe, CA.