

Water Quality Report 2013



2013 Water Quality Report

For more than 55 years, the Vallecitos Water District (Vallecitos) has taken pride in the water it delivers to its now more than 97,000 residents. As a result of its commitment to excellence, Vallecitos is proud to provide the 2013 water quality test results for drinking water delivered to its customers.

After more than 150 types of tests conducted by its wholesalers – the Metropolitan Water District of Southern California (MWD) and the San Diego County Water Authority (SDCWA) – and additional tests performed by the City of Oceanside and Vallecitos, it has been concluded that your water either met or exceeded all local, state and federal potable drinking water standards.

Along with these tests, your drinking water went through a treatment process that included filtering and disinfecting to ensure acceptable quality. Results of our own testing, along with the City of Oceanside's and our wholesalers' monitoring are found in the tables of this report.

This publication is a summary of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to state and federal standards.

Origins of Your Drinking Water

Vallecitos customers receive 100 percent imported water from SDCWA, which is purchased from MWD. Water is mainly imported from:



Sacramento-San Joaquin Delta via the 444-mile California Aqueduct



Colorado River via the 242-mile Colorado River Aqueduct

During its journey, your water remains safe due to increased security at key facilities, increased water sampling, and aerial and ground patrols. Protecting your water doesn't end with the thousands of tests performed throughout the year. Vallecitos also supports regulatory changes in public policy to improve water quality.

The end result is more than 5 billion gallons of an exceptional product delivered annually through 19 operational storage reservoirs and 350 miles of pipeline to a 45-square-mile area that includes San Marcos; Lake San Marcos; portions of Escondido, Carlsbad, and Vista; and other unincorporated areas in San Diego County.

The Water We Drink

The U.S. Congress has directed the U.S. Environmental Protection Agency (USEPA) to require water systems to report the quality of the drinking water they serve annually. Vallecitos supports this regulation and has provided Water Quality Reports and other water quality data to all of its customers for many years.

Did you know...?

The Vallecitos Water District has a consistent record of either meeting or exceeding all local, state and federal drinking water regulations.

The Reason for Contaminants

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 poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, the USEPA and the California Department of Public Health prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. Vallecitos and its water wholesalers treat the water according to these regulations.

The sources of drinking water (both bottled and tap water) include rivers, lakes, streams, reservoirs, ponds, 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 human activity.

Contaminants possibly present in source water before treatment include:

- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- <u>Inorganic contaminants</u>, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- <u>Pesticides and herbicides</u>, which may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic compounds
 that are by-products of industrial processes and petroleum production and can come
 from gas stations, urban stormwater runoff, agricultural application and septic systems.
- Radioactive contaminants, which can be naturally-occurring or the result of oil and gas production and mining activities.

Health Advisories Regarding Your Water

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, persons 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/Center for Disease Control guidelines on the appropriate means to lessen the risk of infection by Cryptosporidium or other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791.

The tables below list all the drinking water contaminants tested for during the 2013 calendar year. Thousands of water quality tests were performed on your drinking water last year. Many more parameters were tested for and not found. The results in this report show that your water met, and in most cases exceeded, all of the stringent state (California Department of Public Health) and federal (U.S. Environmental Protection Agency) water quality standards relating to public health and aesthetics, such as taste, odor and color. Unless otherwise noted, the data in the following tables reflect testing from January 1, 2013, through December 31, 2013. The monitoring of certain contaminants is not required annually since they are not expected to vary significantly from year to year. Therefore, though representative of the water quality, some of the data may be more than one year old

Summary of Vallecitos Water District's 2013 Water Quality Analysis

	State or				Trea	tment Plant Efflu	ents			
		Federal	PHG	Ī	Twin Oaks	Skinner	Weese			
		MCL	(MCLG)	Range	Treatment	Treatment	Treatment	Major Sources in Drinking		
Parameter	Units	[MRDL]	[MRDLG]	Average	Plant	Plant	Plant	Water		
Percent State				Range	NR	4 - 86	NR			
Project Water	%	NA	NA	Average	NR	32	NR	NA NA		
,	- Mandatory	/ Health-Related	l Standards - Data	_	an Diego County	Water Authority (1	Twin Oaks Treatm	nent Plant), the Metropolitan Water District (Skinner		
Treatment Plant) and the City of Oceanside (Weese Treatment Plant).										
CLARITY										
Combined Filter	NTU	TT	NA	Average	0.04	0.09	0.10	Soil runoff		
Effluent Turbidity	%	TT (a)	INA	% < 0.3	100%	100%	99%	Soli Turioli		
MICROBIOLOGICAL										
Total Coliform Bacteria (b)	%	5.0	(0)	Range	ND	ND - 0.2	ND - 0.7	Naturally present in the environment		
Total Collotti Bacteria (b)	70	5.0	(0)	Average	ND	ND	ND	reactionally present in the environment		
E. coli (c)	(c)	(c)	(0)	Range	ND	ND	NR	Human and animal fecal waste		
	(6)	(0)	(0)	Average	ND	ND	NR	Truman and animal recai waste		
Heterotrophic Plate	CFU/mL	TT	NA	Range	TT	ND	ND - 16	Naturally present in the environment		
Count (HPC) (d)			INA	Average	TT	ND	1	reactionally present in the environment		
INORGANIC CHEMICALS										
Arsenic	ppb	10	0.004	Range	Single Sample	ND	NR	Natural deposits erosion; runoff from orchards; glass and		
7 d Scillo	ррь	10	0.004	Average	2	ND	NR	electronics production wastes		
Barium	ppb	1,000	2,000	Range	Single Sample	ND	NR	Oil and metal refineries discharges; natural deposits erosic		
Banam	ррь	1,000	2,000	Average	ND	ND	NR	Oil and metal refinence discharges, natural deposits crosion		
		Optin	nal Fluoride Control I	Range	0.7 - 1.3	0.7 - 1.3	Not Added	Erosion of natural deposits; water additive for dental health;		
Fluoride (e)	ppm	2	1	Range	0.5 - 0.9	0.7 - 1.0	0.2 - 0.3	discharge from fertilizer and aluminum factories		
Treatment-related	PP	_		Average	0.7	0.8	0.2			
Nitrate (as N) (f)	ppm	10	10	Range	ND - 0.3	ND	ND	Runoff and leaching from fertilizer use; sewage; natural deposits erosion		
	pp	.0	.0	Average	ND	ND	ND			
RADIOLOGICALS	1	1			•					
Gross Alpha	pCi/L	15	(0)	Range	ND	ND - 3	ND	Erosion of natural deposits		
Particle Activity	F		(-)	Average	ND	ND	ND			
Gross Beta Particle	pCi/L	50	(0)	Range	ND	ND - 5	ND	Decay of natural and man-made deposits		
Activity (g)	F		(5)	Average	ND	ND	ND	,		
Uranium	pCi/L	20	0.43	Range	1.7 - 2.3	ND - 2	3.6	Erosion of natural deposits		
	l '	-		Average	2.0	1	3.6			
DISINFECTION BY-PR	ODUCTS,	DISINFECTAN	I RESIDUALS, A							
Total Trihalomethanes	ppb	80	NA	Range	22 - 38	12 - 60	14 - 49	By-product of drinking water chlorination		
(TTHM) (h)				Highest RAA	32	58	43	<i>y</i>		
Haloacetic Acids (five)	ppb	60	NA	Range	ND - 3.8	ND - 22	3 - 18	By-product of drinking water chlorination		
(HAA5) (i)	P.P.			Highest RAA	2.2	18	12	,		
Total Chlorine Residual (j)	ppm	[4.0]	[4.0]	Range	NR	ND - 2.9	0.1 - 3.7	Drinking water disinfectant added for treatment		
	ρριιι			Highest RAA	NR	2.3	2.5	and distribution added for treatment		
Bromate (k)	ppb	10	0.1	Range	1.4 - 4.9	1.0 - 11.0	NR	Dy product of dripking water execution		
				Highest RAA	2.6	5.9	NR	By-product of drinking water ozonation		
DBP Precursors	ppm	TT	NA	Range	2.0 - 2.5	2.1 - 2.4	NR	Various natural and man-made sources		
Control (TOC)	ppiii	11	101	Average	2.3	2.2	NR	Tanodo natarar ana man mado obaroco		

This analysis report lists only the detected parameters which are required by law to be published. However, more than 150 parameters were monitored. If you would like a copy of the full reports, including the non-detected contaminants, call the District's Public Information Office at (760) 744-0460 or the reports can be viewed on our website at www.vwd.org.

Summary of Vallecitos Water District's 2013 Water Quality Analysis - Continued

		State or			Treatment Plant Effluents					
		Federal MCL	PHG (MCLG)	Range	Twin Oaks Treatment	Skinner Treatment	Weese Treatment	Major Sources in Drinking		
Parameter	Units	[MRDL]	[MRDLG]	Average	Plant	Plant	Plant	Water		
SECONDARY STANDARDS - Aesthetic Standards - Data provided by the San Diego County Water Authority, the Metropolitan Water District and the City of Oceanside.										
Aluminum (I)	nnh	000	000	Range	ND	ND	98 - 233	Residue from water treatment process; natural deposits		
Aluminum (I)	ppb	200	600	Average	ND	ND	166	erosion		
Obleside		500	NIA	Range	Single Sample	83 - 86	73 - 90	D		
Chloride	ppm	500	NA	Average	86	84	79	Runoff/leaching from natural deposits; seawater influence		
Color	11-34-	15	NA	Range	ND	1 - 2	ND	Ni-t		
	Units			Average	ND	2	ND	Naturally occurring organic materials		
Manganese		50	NL = 500	Range	ND	ND	NR	Leaching from natural deposits		
	ppb			Average	ND	ND	NR			
Odes These held (see)	TON	3	NA	Range	Single Sample	2	ND	Naturally occurring organic materials		
Odor Threshold (m)	TON	3	INA	Average	2	2	ND			
011	nnh	100	NA	Range	Single Sample	ND	NR	Industrial discharges		
Silver	ppb			Average	ND	ND	NR			
Specific Conductance µS/c	0/	4.000	NA	Range	Single Sample	830 - 870	NR			
	µS/cm	1,600		Average	840	850	NR	Substances that form ions in water; seawater influence		
Sulfate		500	NA	Range	Single Sample	170 - 180	89 - 217	Durantilla abian from a bural dan a italia industrial waste		
	ppm			Average	170	170	174	Runoff/leaching from natural deposits; industrial wastes		
Total Dissolved Solids		ppm 1,000	NIA	Range	Single Sample	500 - 520	415 - 553	Dura-fill and in a few and a second describe		
(TDS)	ppm		NA	Average	490	510	484	Runoff/leaching from natural deposits		
Turbidity (a)	NTU	5	NA	Range	0.02 - 0.04	ND	0.05 - 0.75	Sail runoff		
	NIU			Average	0.04	ND	0.10	Soil runoff		

ABBREVIATIONS AND DEFINITIONS

A - Absent

CFU/mL - Colony-Forming Units per milliliter

DBP - Disinfection By-Products

MCL - Maximum Contaminant Level - 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 odor, taste and appearance of drinking water.

MCLG - Maximum Contaminant Level Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection

MPN - Most Probable Number

MRDL - Maximum Residual Disinfectant Level - 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.

MRDLG - Maximum Residual Disinfectant Level Goal - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

N - Nitrogen
NA - Not Applicable

NL - Notification Level - The level at which notification of the public water system's governing body is required. NR - Not Reported
ND - Not Detected

NTU - Nephelometric Turbidity Units

pCi/L - picoCuries per liter

PHG - Public Health Goal - 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.

 $\begin{array}{ll} \textbf{ppb -} & \text{parts per billion or micrograms per liter ($\mu g/L$)} \\ \textbf{ppm -} & \text{parts per million or milligrams per liter ($m g/L$)} \end{array}$

RAA - Running Annual Average
SI - Saturation Index (Langelier)
TOC - Total Organic Carbon

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

μS/cm - microSiemen per centimeter; also equivalent to

 $\mu \text{mho/cm (micromho per centimeter)}$ $\underline{\textit{Primary Standards}} \text{ (Primary Drinking Water Standards)} \ -$

MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and drinking water treatment requirements.

<u>Secondary Standards</u> - Requirements that ensure the appearance, taste and smell of drinking water are acceptable.

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 monthly averages and ranges of turbidity shown in the Secondary Standards section were based on the treatment plant effluents.
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive. Compliance is based on the combined distribution system sampling from all the treatment plants. The MCL was not violated.
- (c) E. coli MCLs: The occurrence of 2 consecutive total coliform-positive samples, one of which contains fecal coliform/E coli, constitutes an acute MCL violation. The MCL was not violated.
- (d) All distribution samples collected had detectable total chlorine residuals and no HPC was required. HPC reporting level is 1 CFU/mL.
- (e) MWD and SDCWA were in compliance with all provisions of the State's Fluoridation System Requirements.
- (f) State MCL is 45 mg/L as nitrate, which equals 10 mg/L as N.
- (g) CDPH considers 50 pCi/L to be the level of concern for beta particles; the gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ.
- (h) Reporting level is 0.5 ppb for each of the following: bromodichloromethane, bromoform, chloroform, and dibromochloromethane.
- (i) Reporting level is 1.0 ppb for each of the following: dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid; and 2.0 ppb for monochloroacetic acid.
- (j) Total chlorine is the sum of free and combined chlorine. Free chlorine is defined as the concentration of residual chlorine in water present as dissolved gas (Cl2), hypochlorous acid (HOCl), and/or hypochlorite ion (OCl-). Combined chlorine is defined as the residual chlorine existing in water in chemical combination with ammonia or organic amines which can be found in natural or polluted waters. Ammonia is sometimes deliberately added to chlorinated public water supplies to provide inorganic chloramines. This process is generally referred to as "chloramination". The water provided to you has had inorganic chloramines added as a disinfectant.
- (k) Reporting level is 3.0 ppb for Bromate
- (I) Aluminum, copper, MTBE and thiobencarb have both primary and secondary standards.
- (m) Metropolitan utilizes a flavor-profile analysis method that can detect odor occurrences more accurately. Call MWD at (213) 217-6850 for more information.

Summary of Vallecitos Water District's 2013 Water Quality Analysis - Continued

		State or Federal	PHG	_	Within				
Dovomotov	Unite	MCL	(MCLG)	Range	VWD's	Major Sources in Drinking			
Parameter	Units	[MRDL]	[MRDLG]	Average	System	Water			
Summary of Water Quality	Tests Wit	hin VWD's D	istribution	System - Da	ata Provided	l by Vallecitos Water District			
Total Coliform Bacteria (a)	%	5.0 (a)	(0)	Range	ND	Naturally present in the environment			
Total Colliditi Bacteria (a)	70			Average	ND	Indually present in the environment			
Fecal Coliform & E. coli (b)	(b)	(b)	(0)	Range	ND	Human and animal fecal waste			
i ecai collotti & E. coll (b)	(0)			Average	ND	Truman and animal recal waste			
Total Trihalomethanes (TTHM) (c)	ppb	80	NA	Range	21 - 48	By-product of drinking water chlorination			
Total Tilialometranes (TTTIM) (c)				Highest RAA	37	by-product of drinking water chlorination			
Haloacetic Acids (five) (HAA5) (d)	ppb	60	NA	Range	7.5 - 26	By-product of drinking water chlorination			
Traidacetic Acids (live) (TIAA3) (d)				Highest RAA	18	by-product of drinking water chlorination			
General Physical Sampling (e)	(e)	(e)	(e)	Secondary Standards (aesthetics) testing required by CDPH within VWD's Distribution System					
MONITORED AT CUSTOMERS' TAP									
Conner (f)	nnh	AL = 1,300	300	90th	310	House pipes internal corrosion; erosion of natural deposits; leaching from			
Copper (f)	ppb			Percentile	310	wood preservatives			
Load* (f)	nnh	AL = 15	0.2	90th	1.3	House pipes internal corrosion; erosion of natural deposits; discharges			
Lead* (f)	ppb	AL = 15		Percentile	1.3	from industrial manufacturers			

ABBREVIATIONS AND DEFINITIONS

AL - Action Level

HAA5 - Haloacetic Acids (five)

MCL - Maximum Contaminant Level - 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 odor, taste and appearance of drinking water.

MCLG - Maximum Contaminant Level Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

MRDL - Maximum Residual Disinfectant Level - 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. MRDLG - Maximum Residual Disinfectant Level Goal - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

PHG - Public Health Goal - 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.

 \boldsymbol{ppb} - parts per billion or micrograms per liter (µg/L)

ppm - parts per million or milligrams per liter (mg/L)

TTHM - Total Trihalomethanes **RAA -** Running Annual Average

FOOTNOTES

- (a) The District tested more samples than required by the CDPH. 1,351 samples were analyzed in 2013 and all samples tested negative for Total Coliform bacteria. The District was in compliance with the Total Coliform MCL for 2013.
- (b) The District tested more samples than required by the CDPH. 1,351 samples were analyzed in 2013 and all samples tested negative for Fecal/E. coli bacteria. The District was in compliance with the Fecal/E. coli MCL for 2013.
- (c) The MCL for Total Trihalomethanes (TTHM) is determined by using a running annual average of the last four quarterly tests. The District was in compliance with the regulations concerning Total Trihalomethanes (TTHM) for 2013.
- (d) The MCL for Haloacetic Acids (HAA5) is determined by using a running annual average of the last four quarterly tests. The District was in compliance with the regulations concerning Haloacetic Acids (HAA5) for 2013.
- (e) These samples were tested for turbidity, odor, and color. The District was in compliance with the Secondary Standards for these tests in 2013.
- (f) The federal and state standards for Lead and Copper are treatment techniques requiring agencies to optimize corrosion control treatment. The District is required to take 30 samples every three years. The data shown is from 33 samples taken during the 2012 period. Our next sample period is scheduled for June, 2015. The District was in compliance with the "Lead and Copper Rule" in 2013.

*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. Vallecitos 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 mintutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, you may wish to have your 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 or at http://www.epa.gov/safewater/lead.

Summary of Vallecitos Water District's 2013 Water Quality Analysis - Continued

Other Detected Constituents That May be of Interest to Consumers

		State or	PHG		Treatment Plant Effluents				
		Federal	(MCLG)	Range	Twin Oaks	Skinner	Weese	Major Sources in Drinking	
Parameter	Units	MCL	[MRDLG]	Average	Plant	Plant	Plant	Water	
AH P 9				Range	Single Sample	72 - 130	84 - 120		
Alkalinity	ppm	NA	NA	Average	110	110	108		
	n n h	NII 4 000	NIA	Range	Single Sample	120	126 -129	Runoff/leaching from natural deposits;	
Boron	ppb	NL = 1,000	NA	Average	120	120	128	industrial wastes	
Calcium	nnm	NA	NIA	Range	Single Sample	56 - 59	32 - 68		
Calcium	ppm	NA	NA	Average	57	58	57		
Chlarata		NII 000	NA	Range	180 - 280	28 - 72	NR	By-product of drinking water chlorination; industrial processes	
Chlorate	ppb	NL = 800	NA	Average	228	51	NR		
Chromium \/I (a)	n n h	NA	0.00	Range	ND	ND	NR	Industrial waste discharge; could be naturally present as well	
Chromium VI (a)	ppb	NA	0.02	Average	ND	ND	NR		
Corrosivity (b)	Al	NA	NA	Range	Single Sample	12.4 - 12.5	NR	Elemental balance in water; affected by temperature, other factors	
(Agressiveness Index)	AI	INA	INA	Average	12	12.4	NR		
Corrosivity (c) (Saturation	SI	NA	NA	Range	Single Sample	0.51 - 0.66	NR	Elemental balance in water; affected by	
Index)	31	INA	INA	Average	0.80	0.58	NR	temperature, other factors	
Hardness	ppm	NA	NA	Range	Single Sample	230 - 240	142 - 267	The sum of naturally occurring poly-valent cations present in the water	
i iai uness	ppiii	INA	INA	Average	230	230	226		
Magnesium	nnm	NA	NA	Range	Single Sample	20 - 21	15 - 24		
Magnesium	ppm	INA	INA	Average	22	20	21		
N-Nitrosodimethylamine (NDMA) ppt	nnt	NL = 10	3	Range	Single Sample	ND - 11	ND	By-product of drinking water chloramination industrial processes	
	ppt	NL - 10		Average	ND	6.5	ND		
nU	pH Units	NA NA	NA	Range	7.5 - 8.8	8.2	7.7 - 8.4		
рН	prionits	INA	INA	Average	8.3	8.2	8.0		
Potassium	ppm	NA	NA	Range	Single Sample	3.9 - 4.3	NR		
า บเฉองเนเท				Average	4.1	4.1	NR		
Sodium	nnm	NA	NA	Range	Single Sample	78 - 81	76 - 81	The salt present in the water, generally	
Socium	ppm			Average	82	80	78	naturally occurring	

ABBREVIATIONS, DEFINITIONS AND FOOTNOTES

Abbreviations and Definitions-(Please refer to main table for other abbreviations and definitions)

- NR Not Reported
- NL Notification Level The level at which notification of the public water system's governing body is required.
- ppt parts per trillion or nanograms per liter (ng/L).

Footnotes:

- (a) Reporting level is 0.03 ppb for Chromium VI.
- (b) Al <10.0 = Highly aggressive and very corrosive water Al ≥ 12.0 = Non-aggressive water Al (10.0 - 11.9) = Moderately aggressive water
- (c) Positive SI index = non-corrosive; tendency to precipitate and/or deposit scale on pipes Negative SI index = corrosive; tendency to dissolve calcium carbonate

Parts per million (ppm) =
One drop in a 10-gallon aquarium



Parts per billion (ppb) = One drop in a residential swimming pool

FOR MORE INFORMATION: This report is only a summary of the water quality activities during the past year. If you have any questions about your water quality or Vallecitos Water District, please visit our web site at www.vwd.org or call (760) 744-0460 during business hours (Monday through Friday, 8 a.m. to 5 p.m.). The District's headquarters is located at 201 Vallecitos de Oro, San Marcos, CA 92069.

Questions specific to water quality can be directed to Ed Pedrazzi, Vallecitos Operations and

Maintenance Manager, at (760) 744-0460, ext. 253. For additional information, contact:

- * U.S. Environmental Protection Agency (800) 426-4791 www.epa.gov/safewater
- * National Center for Disease Control (404) 639-3311 www.cdc.gov
- * California Department of Public Health- Division of Drinking Water & Environmental Management (619) 525-4159 www.cdph.ca.gov/Programs/Pages/DWP.aspx
- * Metropolitan Water District of Southern California (213) 217-6000 www.mwdh2o.com



201 Vallecitos de Oro San Marcos, CA 92069 (760) 744-0460 www.vwd.org

Board of Directors

Division 1: Betty Evans Division 2: Jim Hernandez Division 3: James Poltl Division 4: Mike Sannella

Division 5: Hal Martin

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Tom Scaglione, Assistant General Manager
Rhondi Emmanuel, Administrative Services Manager
John Fusco, Finance Manager
Ken Gerdes, Director of Engineering and Operations
James Gumpel, District Engineer
Ed Pedrazzi, Operations and Maintenance Manager

All are welcome to attend the Vallecitos Board Meetings the first and third Wednesday of each month at 4:00 pm in the Administration building—201 Vallecitos de Oro in San Marcos.

Meetings are also aired on San Marcos TV on Cox Communications Channel 19, Time Warner Channel 24 or AT&T U-verse Channel 99, which air on the Monday following the Wednesday meeting at 6:30 pm. Visit www.san-marcos.net/smtv for programming schedule.







Vallecitos Earns Transparency Certificate of Excellence

- Special Edition -

2013 Water Quality

Report



The Vallecitos Water District was recently honored for achieving the District Transparency Certificate of Excellence by the Special District Leadership Foundation (SDLF). This recognition is given to organizations for their outstanding efforts to promote a transparent, well governed public agency.

"This award is a testament to Vallecitos Water District's commitment to open government," said Vallecitos Board President Hal Martin. "The Board of Directors along with District staff are to be commended for their contributions that empower the public with information and facilitate engagement and oversight."

To earn this distinction the District had to complete essential governance transparency requirements established by SDLF along with website and outreach requirements granting the public easy access to important District information.

The SDLF is an independent, non-profit organization that promotes good governance and best practices among California's special districts. For more information, go to www.vwd.org/transparency.