

JORDAN VALLEY WATER CONSERVANCY DISTRICT
Consumer Confidence Report Data
2010

Report: B

The table below lists all of the drinking water contaminants detected by Jordan Valley Water Conservancy District or its suppliers during the calendar year of this report. This table does not include many other tests we conducted, because those results were below detection limits. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of this report. For certain contaminants, EPA and/or the State requires monitoring at a frequency less than once per year because the concentrations of these contaminants do not change frequently.

Contaminant	Units	2010 Average	2010 Maximum	2010 Minimum	Monitoring Criteria			Last Sampled	Comments/Likely Source
					MCL	MCLG	Violation		
PRIMARY INORGANICS									
Antimony	ug/L	ND	ND	ND	6.00	6.00	No	2010	The high maximum result is not a violation but triggers quarterly monitoring. Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.
Arsenic	ug/L	1.7	7.3	ND	10.0	0.0	No	2010	Erosion of naturally occurring deposits and runoff from orchards.
Asbestos	MFL	ND	ND	ND	7.0	7.0	No	2009	Decay of asbestos cement in water mains; erosion of natural deposits.
Barium	ug/L	89	147	ND	2000	2000	No	2010	Erosion of naturally occurring deposits.
Beryllium	ug/L	ND	ND	ND	4	4	No	2010	Discharge from metal refineries and coal burning factories.
Cadmium	ug/L	0.01	0.12	ND	5.00	5.00	No	2010	Corrosion of galvanized pipes; erosion of natural deposits.
Copper	ug/L	0.3	1.3	ND	NE	NE	No	2010	Erosion of naturally occurring deposits.
Chromium	ug/L	0.4	4.0	ND	100.0	100.0	No	2010	Discharge from steel and pulp mills; Erosion of natural deposits.
Cyanide, Free	ug/L	ND	ND	ND	200.0	200.0	No	2010	Discharge from steel/metal factories; discharge from plastic and fertilizer factories.
Fluoride	mg/L	0.9	1.3	0.2	4.0	4.0	No	2010	Erosion of naturally occurring deposits and discharges from fertilizers. Fluoride added at source.
Lead	ug/L	0.1	0.5	ND	NE	NE	No	2010	Erosion of naturally occurring deposits.
Mercury	ug/L	0.05	0.30	ND	2.00	2.00	No	2010	Erosion of naturally occurring deposits and runoff from landfills.
Nickel	ug/L	0.3	3.5	ND	NE	NE	No	2010	Erosion of naturally occurring deposits.
Nitrate	mg/L	1.9	3.7	0.1	10.0	10.0	No	2010	Runoff from fertilizer, leaching from septic tanks, and naturally occurring organic material.
Nitrite	mg/L	ND	ND	ND	1.0	1.0	No	2010	Runoff from fertilizer, leaching from septic tanks, and naturally occurring organic material.
Total Nitrate & Nitrite	mg/L	1.9	3.7	0.1	10.0	10.0	No	2010	Runoff from fertilizer, leaching from septic tanks, and naturally occurring organic material.
Selenium	ug/L	1.5	7.3	ND	50.0	50.0	No	2010	Erosion of naturally occurring deposits.
Sodium	mg/L	15.6	27.6	3.2	NE	NE	No	2010	Erosion of naturally occurring deposits and runoff from road deicing.
Sulfate	mg/L	32.6	48.4	3.0	1000	NE	No	2010	Erosion of naturally occurring deposits.
Thallium	ug/L	0.1	1.1	ND	2.0	0.5	No	2010	Leaching from ore-processing sites and discharges from electronics, glass and drug factories.
TDS	mg/L	227	365	10	2000	NE	No	2010	Erosion of naturally occurring deposits.
Turbidity (groundwater and surface water sources)	NTU	0.32	2.84	ND	0.3/5.0	TT	No	2010	*MCL is 0.3 NTU 95% of the time for surface water and 5.0 for groundwater. Suspended material from soil runoff.
Lowest Monthly % Meeting TT	%	100% (Treatment Technique requirement applies only to treated surface water sources)							
SECONDARY INORGANICS - Aesthetic Standards									
Aluminum	ug/L	ND	ND	ND	SS = 50-200	NE	No	2010	Erosion of naturally occurring deposits and treatment residuals.
Chloride	mg/L	25	76	15	SS = 250	NE	No	2010	Erosion of naturally occurring deposits.
Iron	ug/L	33	200	ND	SS = 300	NE	No	2010	Erosion of naturally occurring deposits.
Manganese	ug/L	ND	ND	ND	SS = 50	NE	No	2010	Erosion of naturally occurring deposits.
pH		7.70	8.50	6.84	SS = 6.5-8.5	NE	No	2010	Naturally occurring.
Silver	ug/L	ND	ND	ND	SS = 100	NE	No	2010	Erosion of naturally occurring deposits.
Zinc	ug/L	ND	ND	ND	SS = 5000	NE	No	2010	Erosion of naturally occurring deposits.
UNREGULATED PARAMETERS - monitoring not required									
Alkalinity, Bicarbonate	mg/L	144	169	126	UR	NE	No	2010	Naturally occurring.
Alkalinity, Carbonate	mg/L	ND	ND	ND	UR	NE	No	2010	Naturally occurring.
Alkalinity, CO ₂	mg/L	106	126	95	UR	NE	No	2010	Naturally occurring.
Alkalinity, Hydroxide	mg/L	ND	ND	ND	UR	NE	No	2010	Naturally occurring.
Alkalinity, Total (CaCo ₃)	mg/L	120	161	15	UR	NE	No	2010	Naturally occurring.
Bromide	ug/L	0.0	11.9	ND	UR	NE	No	2010	Naturally occurring.
Calcium	mg/L	69.5	186.0	5.5	UR	NE	No	2010	Erosion of naturally occurring deposits.
Conductance	umhos/cm	394	581	37	UR	NE	No	2010	Naturally occurring.
Cyanide, Total	ug/L	ND	ND	ND	UR	NE	No	2010	Discharge from steel/metal factories; discharge from plastic and fertilizer factories.
Geosmin	ng/L	0.4	3.7	ND	UR	NE	No	2010	Naturally occurring organic compound associated with musty odor.
Hardness, Total	mg/L	161	201	20	UR	NE	No	2010	Erosion of naturally occurring deposits.
Magnesium	mg/L	9.5	12.6	1.0	UR	NE	No	2010	Erosion of naturally occurring deposits.
Molybdenum	ug/L	0.40	0.80	ND	UR	NE	No	2010	By-product of copper and tungsten mining.
Orthophosphates	mg/L	ND	ND	ND	UR	NE	No	2010	Erosion of naturally occurring deposits.
Potassium	mg/L	2.4	2.9	0.8	UR	NE	No	2010	Erosion of naturally occurring deposits.
TSS (Total Suspended Solids)	mg/L	0.80	4.00	ND	UR	NE	No	2010	Erosion of naturally occurring deposits.
VOCs									
None Detected	ug/L	None Detected			Various	Various	No	2010	Various sources.
PESTICIDES/PCBs/SOCs									
None Detected	ug/L	None Detected			Various	Various	No	2010	Various sources.
RADIOLOGICAL									
Radium 226	pCi/L	0.44	2.00	ND	NE	NE	No	2010	Decay of natural and man-made deposits.
Radium 228	pCi/L	0.45	1.29	-0.06	NE	NE	No	2010	Decay of natural and man-made deposits.
Radium 226 & 228	pCi/L	0.85	2.00	-0.05	5.00	NE	No	2010	Decay of natural and man-made deposits.
Gross-Alpha	pCi/L	6.5	20.2	ND	15.0	NE	No	2010	The high maximum result is not a violation but triggers quarterly monitoring. Decay of natural and man-made deposits.
Gross-Beta	pCi/L	9.1	47.6	ND	50.0	NE	No	2010	Decay of natural and man-made deposits.
Uranium	ug/L	5.9	14.7	0.5	30.0	NE	No	2010	Erosion of naturally occurring deposits.
Radon	pCi/L	-16.1	-13.8	-18.4	NE	NE	No	2008	Naturally occurring in soil.

DISINFECTANTS / DISINFECTION BY-PRODUCTS									
Chlorine	mg/L	0.5	1.4	0.0	4.0	NE	No	2010	Drinking water disinfectant.
TTHMs	ug/L	28.8	74.3	ND	80.0	NE	No	2010	By-product of drinking water disinfection.
HAA5s	ug/L	21.2	54.2	ND	60.0	NE	No	2010	By-product of drinking water disinfection.
Highest Annual System Wide Avg.	ug/L	TTHM = 30.4 ug/L, HAA5s = 23.7 ug/L							
Bromate	ug/L	ND	ND	ND	10.0	NE	No	2010	By-product of drinking water disinfection.
ORGANIC MATERIAL									
Total Organic Carbon	mg/L	1.9	2.4	ND	TT	NE	No	2010	Naturally occurring.
Dissolved Organic Carbon	mg/L	2.2	2.7	1.4	TT	NE	No	2010	Naturally occurring.
UV-254	1/cm	0.030	0.043	0.010	UR	NE	No	2010	This is a measure of the concentration of UV-absorbing organic compounds. Naturally occurring.
LEAD and COPPER (tested at the consumers tap) - monitoring required at least every 3 years. Last year tested 2010.									
Lead	ug/L	4	41	ND	AL = 15	NE	No	2010	Lead violation is determined by the 90th percentile result. Corrosion of household plumbing systems, erosion of naturally occurring deposits.
Copper	ug/L	130	534	9	AL = 1300	NE	No	2010	Corrosion of household plumbing systems, erosion of naturally occurring deposits.
90th Percentile		Lead = 4.5 ppb, Copper = 257 ppb							
# of sites above Action Level		Lead = 3, Copper = 0							
MICROBIOLOGICAL									
HPC	MPN/mL	11.5	73.8	ND	500.0	0.0	No	2010	MCL is for monthly compliance. All repeat samples were negative; no violations were issued. Human and animal fecal waste, naturally occurring in the environment.
Total Coliform	% Positive per Month	0.09%	0.65%	0.00%	Not >5%	0.00	No	2010	

mg/L: milligrams per liter
ug/L: micrograms per liter
pg/L: picograms per liter
ng/L: nanograms per liter
NTU: Nephelometric Turbidity Unit
CU: Color Unit
TON: Threshold Odor Unit
umhos/cm: micro ohms per centimeter
1/cm: One / centimeter
pCi/L: picocuries per liter
MFL: Millions of Fibers per Liter
MPN/mL: most probable number per millileter

MCL: Maximum Contaminant Level
MCLG: Maximum Contaminant Level Goal
TTHM: Total Trihalomethanes
HAA5s: Five Haloacetic Acids
HPC: Heterotrophic Plate Count
VOCs: Volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
SOCs: Synthetic Organic Chemicals

ND: None Detected
NA: Not Applicable
NE: Not Established
UR: Unregulated
TT: Treatment Technique
AL: Action Level
SS: Secondary Standard

The most recent data collected is used. Data ranges indicate that multiple sources were tested at different times within the given range.