

# CONSUMER CONFIDENCE REPORT 2010

## FOR SAN JOAQUIN COUNTY WATER SYSTEMS

### Water System Name: Colonial Heights Water System

Report Date: 07/11

**Type of Water Source(s) in Use:** Two ground water wells and two metered connections to the City of Stockton Municipal Utilities (COS) in which treated surface water from the Stockton East Water District (SEWD) is delivered to the Colonial Heights Maintenance District (CHMD).

**Name of Source(s) in Use:** Well #1, Well #4, metered connections

**Drinking Water Source Assessment Information:** An assessment of the drinking water sources for San Joaquin County – Colonial Heights water system was completed in March 2001. The sources are considered most vulnerable to the following activities: septic systems, gas stations, known contaminant plumes, NPDES/WDS permitted discharges, dry cleaners, and confirmed leaking underground storage tanks.

**Table #1: Sampling Results Showing Detection of Coliform Bacteria (CHMD)**

MICROBIOLOGICAL CONTAMINANTS	HIGHEST NO. of DETECTIONS	NO. of MOS. in VIOLATION	MCL	MCLG	TYPICAL SOURCE OF BACTERIA
Tot. Coliform Bacteria	0 (highest in month)	0	> 1	0	Naturally present in environment
Fecal Coliform and <i>E. coli</i>	0 (year total)	0	> 1	0	Human and animal fecal waste

**Table #2: Sampling Results Showing Detection of Lead and Copper (CHMD)**

LEAD and COPPER	NO. of SAMPLES	90 <sup>TH</sup> Percentile LEVEL	NO. SITES > AL	AL	MCLG	TYPICAL SOURCE OF CONTAMINANT
Lead (ppb)	10	8.5	0	15	2	Internal corrosion of household water plumbing systems; discharge from industrial manufacturers; erosion of natural deposits
Copper (ppb)	10	70	0	1300	170	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives

**Table #3: Sampling Results Showing Detection of Sodium, Hardness and other Elements**

CHEMICAL OR CONSTITUENT	RANGE OF DETECTIONS	CHMD WELLS	COS WELLS	SEWD	MCL	PHG (MCLG)	TYPICAL SOURCE OF CONTAMINANT
Sodium (ppm)	13 – 32	23.5	20	6	none	none	Generally found in ground and surface water
Hardness (ppm)	120 – 260	163.4	199	23.2	none	none	Generally found in ground and surface water
Calcium (ppm)	24 – 59	41.5	45	6	none	none	Generally found in ground and surface water
Magnesium (ppm)	8–30	14.5	22	2	none	none	Generally found in ground and surface water
Potassium (ppm)	2.4 – 6.6	4	5.0	<1	none	none	Generally found in ground and surface water
Total Alkalinity (ppm)	120 – 230	160	173	30	none	none	Generally found in ground and surface water

**Table #4: Detection of Contaminants with a PRIMARY Drinking Water Standard**

CHEMICAL OR CONSTITUENT	RANGE OF DETECTIONS	CHMD (Wells)	COS (Wells)	SEWD (Surface)	MCL	PHG (MCLG)	TYPICAL SOURCE OF CONTAMINANT
Gross Alpha Activity (pCi/L)	<3.0– 8.89	3.95	3.98	<3.0	15	0	Erosion of natural deposits
Radium 228 (pCi/L)	<1.0 – 1.71	<1.0	<1.0	N/A	N/A	0	Erosion of natural deposits
Uranium (pCi/L)	<1.0 –7.4	7.51	4.8	< 2	20	0	Erosion of natural deposits
Gross Beta Activity (pCi/L)	<4.0 – 7.52	N/A	N/A	< 4.0	2	0	Erosion of natural deposits
Arsenic (ppb)	< 2 – 7.5	2.5	4.7	< 2	10	N/A	Erosion of natural deposits; run-off from orchards; glass & electronics production waste
Barium (ppm)	< 0.1 – 0.21	0.12	0.15	< 0.1	1.0	2	Oil drilling and metal refinery waste discharge; erosion of natural deposits
Chromium (ppb)	< 10 – 14	1.5	< 10	< 10	50	100	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride (ppm)	< 0.1 – 0.17	0.2	0.11	0.30	2	1	Erosion of natural deposits; water additive (strong teeth); discharge from fertilizer and aluminum factories
Lead (ppb)	–	0.3	N/A	N/A	50	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Nickel (ppb)	< 10 – 22	2	< 10	< 10	100	N/A	Erosion of natural deposits; discharge from metal factories
Nitrate (ppm)	< 2 – 24	2.25	12	< 2	45	45	Run-off and leaching from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Tetrachloroethylene (ppb) (PCE)	2.8–8.6	*6.2	<0.5		<0.5	5	8 Leaching from PVC pipes; discharge from factories; dry cleaners and auto shops
		CHMD Distribution	COS Distribution				
TTHM (ppb) Distribution (Total Trihalomethanes)	< 0.5 –110	24.5	48	N/A	80	N/A	By-product of drinking water chlorination
HAA5 (ppb)	<2.0 –47.3	3.5	17.4	N/A	60	N/A	By-product of drinking water chlorination
Turbidity (units) **	–	–	–		0.25**	5	N/A Soil run-off

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\*\* Highest single measurement for SEWD surface source, Percentage of samples less than 0.3 = 100%.