

# Albuquerque Bernalillo County Water Utility Authority

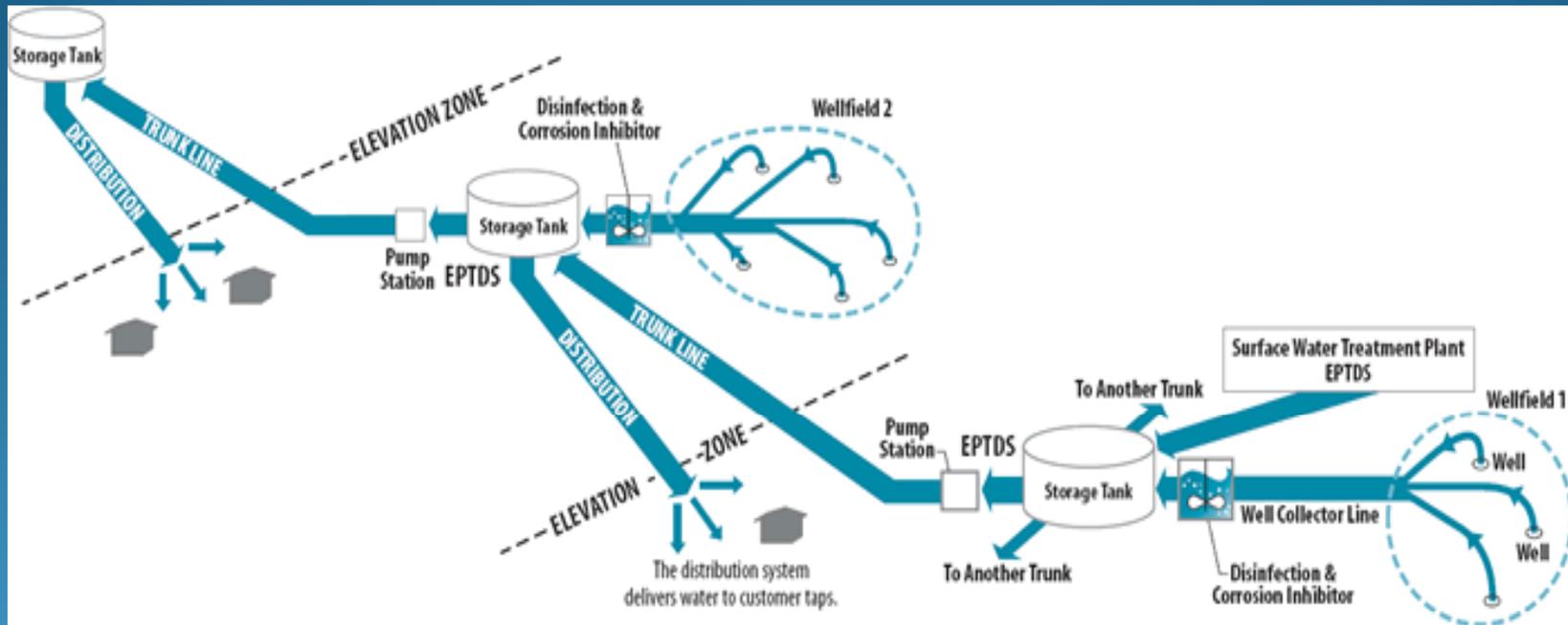
## Drinking Water Quality Monitoring Program

Barbara Gastian  
Compliance Division Manager  
November 2012



Albuquerque Bernalillo County  
Water Utility Authority

# How the Water System Works



# Results of Surface Water Treatment Plant Entry Point to the Distribution System Monitoring (2008-2011)

Substances	Units	Minimum	Average	Maximum	MCL	MDL
Chromium	PPB	ND	ND	1	100	1
Turbidity	NTU	0.02		0.45		
Fluoride	PPM	0.29	0.44	0.53	4	0.1
Nitrate+Nitrite	PPM	ND	0.1	0.3	10	0.1
Gross Alpha	pCi/L	ND	ND	ND	15	3
Gross Beta	pCi/L	ND	ND	5	50	4
Radium 226+228	pCi/L	ND	ND	ND	5	1
Uranium	pCi/L	ND	ND	1	30	1
SOCs	PPB	ND	ND	ND	multiple	variable
VOCs	PPB	ND	ND	ND	multiple	0.5

ND = No Detect

## Results of Surface Water Treatment Plant Entry Point to the Distribution System Monitoring (2008-2011)

Substances	Units	Minimum	Average	Maximum	MCL	MDL
<b>Disinfection By-Products</b>						
Total Trihalomethanes	PPB	0.3	6.4	18.3	80	~
Haloacetic Acids (HAA5)	PPB	0.19	3.51	6.5	60	~

**Pharmaceutical Monitoring (2009-2011)**  
**Source Water and Surface Water Treatment Plant EPTDS Monitoring**  
**Detected Substances - Blank Corrected Results – EPA 1694**

Substance	Source		EPTDS		Classification
	nanograms/liter		nanograms/liter		
	Min	Max	Min	Max	
2-hydroxy-ibuprofen	ND	ND	ND	414	Anti-inflammatory
Amphetamine	ND	3.37	ND	5.41	Stimulant
Atenolol	0.73	4.78	ND	ND	Antihypertensive
Carbamazepine	ND	8.18	ND	ND	Anticonvulsant
Cimetidine	ND	1.11	ND	ND	Anti-acid reflux
Cotinine	ND	9.98	ND	27.2	Nicotine metabolite
Diltiazem	ND	0.833	ND	ND	Antihypertensive
Erythromycin anhydrate	0.38	2.08	ND	ND	Macrolide antibiotic
Furosemide	ND	148	ND	ND	Diuretic
Gemfibrozil	ND	14.5	ND	13.7	Antilipemic
Ibuprofen	ND	ND	ND	50.8	Analgesic
Metformin	ND	114	ND	10.6	Anti-diabetic drug
Naproxen	ND	5.04	ND	210	Non-steroidal anti-inflammatory drug
Oxycodone	ND	2.68	ND	ND	Narcotic pain reliever
Ranitidine	ND	1.92	ND	ND	Anti-acid reflux
Sulfamethoxazole	4.98	20.2	ND	ND	Sulfonamide antibiotic
Triamterene	ND	3.1	ND	ND	Diuretic
Trimethoprim	ND	2.97	ND	ND	Pyrimidine antibiotic

ND = No Detect

**Pharmaceutical Monitoring (2009-2011)**  
**Source Water and Surface Water Treatment Plant EPTDS Monitoring**  
**Detected Substances - Blank Corrected Results – EPA 1698**

Substance	Source		EPTDS		Classification
	nanograms/liter		nanograms/liter		
	min	max	min	max	
17 alpha-Ethinyl-Estradiol	ND	1.28	ND	2.56	Ovulation inhibitor
17 beta-Estradiol	ND	0.831	ND	1.69	Sex Hormone
Androstenedione	ND	24	ND	15.8	Anabolic agent
Androsterone	ND	5.88	ND	0.973	Hormone metabolite
beta-Sitosterol	161.9	5280	ND	462	Plant sterol
beta-Stigmastanol	3.6	34.7	ND	22.4	Plant sterol
Campesterol	6.3	61	ND	23.9	Plant sterol
Cholestanol	3.62	13.5	ND	79.8	Sterol
Cholesterol	ND	206	ND	4060	Sterol
Coprostanol	ND	6.31	ND	17.2	Sterol
Desmosterol	ND	13.6	ND	22.8	Sterol
Desogestrel	ND	6	ND	1.99	Ovulation inhibitor
Epicoprostanol	ND	6.99	ND	19.1	Sterol
Equilin	ND	3.84	ND	6.43	Hormone replacement
Ergosterol	ND	53.5	ND	7.18	Sterol
Estriol	ND	2.35	ND	1.93	Sex Hormone
Mestranol	ND	2.46	ND	3.272	Oral Contraceptive
Stigmasterol	28.5	57	ND	58.67	Plant sterol
Testosterone	ND	11.8	ND	23.3	Sex Hormone

ND = No Detect

# Conclusions

## SJCWTP Entry Point to Distribution System Monitoring 2008-2011

- Inorganics: no detection and low levels (Chromium, Nitrate + Nitrite, and Fluoride)
- Radiological results: no detect or trace levels
- Disinfection Byproducts: low levels
- No SOCs or VOCs detected
- Pharmaceutical results: no detection of 91 of 113 substances

# Water Authority Information Resources

## Annual Water Quality Report

- Mailed to customers
- On the web: <http://www.abcwua.org/content/view/561/836/>

## Water Quality Information on Water Authority Website at:

- Water Quality by Distribution Zone:  
<http://www.abcwua.org/content/view/516/797/#zonemap/>
- SWTP Source and Finished Water:  
<http://www.abcuwa.org/content/view/515/798/>
- Compliance Monitoring in the Distribution System:  
<http://www.abcwua.org/content/view/506/800/>
- Pharmaceuticals and Personal Care Products:  
<http://www.abcwua.org/content/view/519/378/>
- Water Treatment Process Review by Dr. Kerry Howe, Department of Engineering, UNM: <http://www.abcwua.org/content/view/371/378>
- Aquifer Storage and Recovery Public Meeting:  
<http://www.abcwua.org/content/view/543/378/>

# More Information Resources

USGS Link for WQ results at Alameda Bridge:

- [http://nwis.waterdata.usgs.gov/usa/nwis/qwdata/?site\\_no=08329918](http://nwis.waterdata.usgs.gov/usa/nwis/qwdata/?site_no=08329918)

U.S. EPA Safe Drinking Water Hotline:

- Phone: 1-800-426-4791
- <http://water.epa.gov/drink/hotline/>

New Mexico Environment Department/Drinking Water Bureau

- <http://www.nmenv.state.nm.us/dwb/Index.htmlIndex>
- Phone Albuquerque: 222-9500  
Santa Fe: 1-877-654-8720

Water Authority Water Quality Information:

- Phone 857-8260
- [waterquality@abcwua.org](mailto:waterquality@abcwua.org)