



MADISON COUNTY INDIVIDUAL WATER SUPPLY PROGRAM

9/30/15-4/30/18

Field Visits	413
Appendix 75C Water Quality Standards (1)	219
Bacteria (Total coliform / E Coli)	159
Nitrate	128
Nitrite	15
VOC(2)	6
Part 5 Analyses SOC(3)/VOC	19
Arsenic	98
GI Referrals(4)	10

Table 1 is a summary of the total number of Individual Water System (IWS) Field Visits & Water Quality Analyses performed by the Madison County Health Department through the CDC Safe Watch Grant Program for Years 2015-2017

Notes:

- (1) Appendix 75C = IWS Water Quality Standards per 10 NYCRR Part 75: Coliform, lead, nitrates, nitrites, turbidity, arsenic, iron, manganese, hardness, alkalinity, pH and sodium.
- (2) Volatile Organic Contaminants (VOCs)
- (3) Synthetic Organic Contaminants (SOCs)
- (4) Gastrointestinal Illness (GI)

Table 2 shows the average, median, minimum and max values for tested parameters, 75C Maximum Level, # of test results and lab cost

	Calcium (mg/l)	Iron (mg/l)	Magnesium (mg/l)	Manganese (mg/l)	Sodium (mg/l)	Hardness (mg/l)	Arsenic (mg/l)	Lead (mg/l)	Nitrate (mg/l)	Nitrite (mg/l)	Alkalinity (mg/l)	pH	Turbidity (NTU)
Average	82.01	0.45	18.18	0.05	37.38	280.23	0.0015	0.00131	0.80	0.01	222.16	7.54	1.30
Median	54.45	0.05	11.80	0.01	18.90	196.00	0.0007	0.00100	0.08	0.01	210.00	7.50	0.53
Min	0.10	0.01	0.01	0.01	1.12	1.00	0.0001	0.00050	0.01	0.01	69.00	6.50	0.05
Max	654.00	18.20	82.90	1.40	233.00	1860.00	0.02	0.04	9.33	0.04	450.00	9.50	48.50
75C Standards	No Standard	0.3	No Standard	0.3	>20 >270	150	0.010	0.015	10	1	100	6.5-8.5	5



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Notable test result findings:

- 39% of tested water supplies were positive for total coliform bacteria
- 6% of tested water supplies were positive for E.coli
- 6 water supplies exceeded the MCL for arsenic
- 1 water supply exceeded the MCL for lead
- Arsenic was found in 26% of tested water supplies at levels exceeding 0.001 mg/l
- 7% of tested water supplies had arsenic >0.005 mg/l
- 23% of tested water supplies had nitrate >1.0 mg/l
- 4 nitrite detects in 234 tests, 0.01 mg/l detection limit.
- 6 alkalinity tests of 219 did not exceed the MCL of 100 mg/l as CaCO₃
- 3 manganese tests of 216 exceeded the MCL of 0.3mg/l

Survey results:

- 47% of tested households completed Individual Onsite Water System Service surveys
- 76% of survey respondents indicated they were likely or highly likely to make corrective changes to their water system
- 61% of respondents indicated they have or will change their well cap
- 41% would disinfect their well
- 35% would resample their water

For questions and concerns about the individual water supply summary, contact the Madison County Health Department at 366-2526.

Acronyms

MCL	Maximum contaminant level
mg/l	Milligrams per liter◊water quality measurement (equals ppm)
NTU	Nephelometric Turbidity Units◊water quality measurement