



MEMO

TO: All Data Users

RE: Water Quality Monitoring at Pautler Nature Preserve, Monroe Co., Illinois

General Information

The samples were taken approximately 310' from the entrance. Sampling point was a few feet upstream from where the water enters the low passage. Water level in the stream at the sample point was an inch or inch and a half deep. Sampling date was September 15, 2003; weather was sunny, temperature moderate. Samples were collected at noon.

Water was analyzed by National Testing Laboratories of Cleveland, Ohio for:

- Bacteria (presence/absence for coliform and E.coli)
- (15) heavy metals and minerals
- (5) other inorganic chemicals
- (5) physical characteristics
- (4) trihalomethanes
- (44) volatile organic chemicals
- (20) pesticides, herbicides and PCB's.

A separate sample was analyzed by the DuPage County Health Department laboratory for fecal coliform.

Questions about the data should be directed to a KCI Director (current Directors are listed on the KCI website www.caveresource.com/kci) or via email at kci@caveresource.com.



NATIONAL TESTING LABORATORIES LTD.
 6535 Wilson Mills Road
 Cleveland, OH 44143
 (440) 449-2325

CUSTOMER ADDRESS

DEALER ADDRESS
 KARST CONSERVANCY OF IL
 BARB CAPOCY
 4628 SEELEY AVE
 DOWNERS GROVE, IL 60515-2702

DRINKING WATER ANALYSIS RESULTS

ID: WELL WATER/ PAUTLER NATURE PRESERVE
 MONROE COUNTY, ILLINOIS

- NOTE: "A" The MCL (Maximum Contaminant Level) or an established guideline has been exceeded for this contaminant.
 "***" Bacteria results may be invalid due to lack of collection information or because the sample has exceeded the 30-hour holding time.
 "ND" This contaminant was not detected at or above our stated detection level.
 "NBS" No bacteria submitted. "NBR" No Bacteria Required.
 "P" = PRESENCE "A" = ABSENCE
 "EP" = E. COLI PRESENCE "EA" = E. COLI ABSENCE
 "NA" Not Analyzed

Analysis Performed	MCL (mg/l)	Det. Level	Level Detected
Total coliform	P	P	P EP
Inorganic chemicals - metals:			
Aluminum	0.2	0.1	0.2
Arsenic	0.05	0.010	ND
Barium	2	0.30	ND
Cadmium	0.005	0.002	ND
Chromium	0.1	0.010	ND
Copper	1.3	0.004	ND
Iron	0.3	0.020	0.20
Lead	0.015	0.002	ND
Manganese	0.05	0.004	0.024
Mercury	0.002	0.001	ND
Nickel	---	0.02	ND
Selenium	0.05	0.002	ND
Silver	0.1	0.002	ND
Sodium	---	1	21
Zinc	5	0.004	ND
Inorganic chemicals - other, and physical factors:			
Alkalinity (Total as CaCO3)	---	30	290
Chloride	250	5.0	29
Fluoride	4	0.5	ND
Nitrate as N	10	0.5	3.9
Nitrite as N	1	0.5	ND
Sulfate	250	5.0	18
Hardness (suggested limit = 100)	---	10	300*
pH (Standard Units)	6.5-8.5	---	7.8
Total Dissolved Solids	500	20	300
Turbidity (Turbidity Units)	1.0	0.1	5.0*
Organic chemicals - trihalomethanes:			
Bromoform	---	0.004	ND
Bromodichloromethane	---	0.002	ND
Chloroform	---	0.002	ND
Dibromochloromethane	---	0.004	ND
Total THMS	0.080	0.002	ND

Analysis performed

	MCL (ug/l)	Detection Level	Level Detected
Benzene	0.005	0.001	ND
Vinyl Chloride	0.002	0.001	ND
Carbon Tetrachloride	0.005	0.001	ND
1,2-Dichloroethane	0.005	0.001	ND
Trichloroethene (TCE)	0.005	0.001	ND
1,4-Dichlorobenzene	0.075	0.001	ND
1,1-Dichloroethene	0.007	0.001	ND
1,1,1-Trichloroethane	0.2	0.001	ND
Bromobenzene	---	0.002	ND
Bromomethane	---	0.002	ND
Chlorobenzene	0.1	0.001	ND
Chloroethane	---	0.002	ND
Chloromethane	---	0.002	ND
2-Chlorotoluene	---	0.001	ND
4-Chlorotoluene	---	0.001	ND
Dibromochloropropane (DBCP)	---	0.001	ND
Dibromomethane	---	0.002	ND
1,2-Dichlorobenzene	0.6	0.001	ND
1,3-Dichlorobenzene	0.6	0.001	ND
Dichlorodifluoroethane	---	0.002	ND
1,1-Dichloroethane	---	0.002	ND
Trans-1,2-Dichloroethene	0.1	0.002	ND
cis-1,2-Dichloroethene	0.07	0.002	ND
Dichloromethane	0.005	0.002	ND
1,2-Dichloropropane	0.005	0.002	ND
trans-1,3-Dichloropropene	---	0.002	ND
cis-1,3-Dichloropropene	---	0.002	ND
2,2-Dichloropropane	---	0.002	ND
1,1-Dichloropropene	---	0.002	ND
1,3-Dichloropropene	---	0.002	ND
Ethylbenzene	0.7	0.001	ND
Ethylendibromide (EDB)	---	0.001	ND
Styrene	0.1	0.001	ND
1,1,1,2-Tetrachloroethane	---	0.002	ND
1,1,2,2-Tetrachloroethane	---	0.002	ND
Tetrachloroethene (PCE)	0.005	0.002	ND
1,2,4-Trichlorobenzene	0.07	0.002	ND
1,2,3-Trichlorobenzene	---	0.002	ND
1,1,2-Trichloroethane	0.005	0.002	ND
Trichlorofluoroethane	---	0.002	ND
1,2,3-Trichloropropene	---	0.002	ND
Toluene	1	0.001	ND
Xylene	10	0.001	ND
Methyl-Tert-Butyl-Ether	---	0.004	ND

Organic chemicals - pesticides, herbicides and PCBs

Alachlor	0.002	0.001	ND
Atrazine	0.003	0.002	ND
Chlordane	0.002	0.001	ND
Aldrin	---	0.002	ND
Dichloran	---	0.002	ND
Dieldrin	---	0.001	ND
Endrin	0.002	0.0001	ND
Heptachlor	0.0004	0.0004	ND
Heptachlor Epoxide	0.0002	0.0001	ND
Hexachlorobenzene	0.001	0.0005	ND
Hexachlorocyclopentadiene	0.05	0.001	ND
Lindane	0.0002	0.0002	ND
Methoxychlor	0.04	0.002	ND
PCBs	0.0005	0.0005	ND
Pentachloronitrobenzene	---	0.002	ND
Silvex (2,4,5-TP)	0.05	0.005	ND
Simazine	0.004	0.002	ND
Toxaphene	0.003	0.001	ND
Trifluralin	---	0.002	ND
2,4-D	0.07	0.010	ND

I certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

Deborah J. Slusher

DuPage County Health Department

111 N County Farm Road, Wheaton, IL 60187
 Laboratory Registration 17544

Water Sample Report Form

01/02

Fill out one sheet for each sample Complete the information inside this box

Collector samples must reach the laboratory within 30 hours of collection

Name BABE Capocy
 Address EMS - Central
 City, State, Zip _____

Source Address PAULER NATURE Preserve
 from above City, Zip _____ Phone _____
 County Monroe DuPage PPN _____
 Facility ID _____
 Supply Chlorinated? Yes No

Date Collected 9/15/03 Time Collected 12:15 AM
 Collected by B. Capocy BEMP Phone 682-7979 & 7115

Sample Type Initial First Re-sample Second Re-sample Other
 Sampling Point Raw At Tap Filtered/Treated Other
 Specify Fixture _____

Source Description **Well Construction**

Private Well Patless Construction
 Semi-Private Well Well Pit
 Non-Community Water Supply Buried Seal
 Public Water Supply Basement Office
 Non-Potable Water Supply Basement
 (e.g. Irrigation Well) Hand Pump
 ATP Other, Specify _____
 Surface Water
 Other, Specify _____ Modifications Required? Yes No

Test For

Coliform Nitrate (not Combination \$15.00)
 Additional tests available (separate fee of \$15.00 each)
 pH Hardness - additional bottle Fluoride - additional bottle
 Surface Water Only For: Fecal Coliform Fecal Strap

Lab # 032475

Received Date SEP 16 2003

by ml Time 3 AM PM

Payment No Fee Paid \$ _____
 Receipt # _____ Account # _____

Membrane Filter

	Coliform	Fecal Coliform	Fecal Strap
Amount Filtered		<u>25</u>	
Bacterial Count		<u>24</u>	

Membrane Filter Count

Coliform	_____	/100mL
Fecal Coliform	<u>96</u>	/100mL
Fecal Strap	_____	/100mL
Other	_____	

Chemical Results Expressed as mg/L (Formerly PPM)

_____	_____	_____
_____	_____	_____
_____	_____	_____

Nitrate (as N) _____

Analysis Completed Date SEP 17 2003 by ml

M. J. Linn Laboratory Reviewer

Permit Number _____

Reviewer _____

Analysis Summary*

- Water sample meets the State of Illinois bacteria standards for private water wells of zero coliform bacteria.
- Water sample does not meet the State of Illinois bacteria standards for private water wells of zero coliform bacteria.
- The sample results are invalid because of significant non-coliform growth.
- Nitrate content is satisfactory as the nitrate level is less than 10 ppm which is deemed satisfactory by the State of Illinois standards for private water wells.
- Nitrate content is unsatisfactory as the nitrate level is greater than 10 ppm which is deemed unsatisfactory by the State of Illinois standards for private water wells.
- The water supply should be re-sampled and re-tested.
- The water system should be disinfected before re-sampling and re-testing (See backside of this form for disinfecting instructions.)
- This sample was not taken by the DuPage County Health Department.

* This information applies to the sample at the time of collection. The testing of water samples for coliform bacteria and screening for nitrates is one indication of satisfactory water quality. It does not indicate that the water sample has been tested for other possible contaminants such as metals, pesticides or volatile organic compounds. To determine if other contaminants are present other than coliform bacteria or nitrates, further analysis should be conducted by a certified laboratory.