

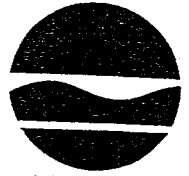
New York State Department of Environmental Conservation

Division of Water, Region 3

200 White Plains Road – 5th Floor, Tarrytown, New York 10591-5805

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John P. Cahill
Commissioner

BRONX RIVER COLIFORM SAMPLING REPORT

Report Date : July 15, 1999

Survey Date : June 24, 1999

On April 13, 1999, this Department's Stream Biomonitoring Unit issued a report on its 1998 survey entitled "Bronx River - Biological Assessment." This Study indicated slight to moderate impacts on Bronx River water quality based on macroinvertebrate sampling. Stephen Sellinger of the Regional Office of the Division of Water responded with preliminary sampling for Total Coliform and Fecal Coliform in the portion of the Study Area within our region. The following are the results of that preliminary sampling.

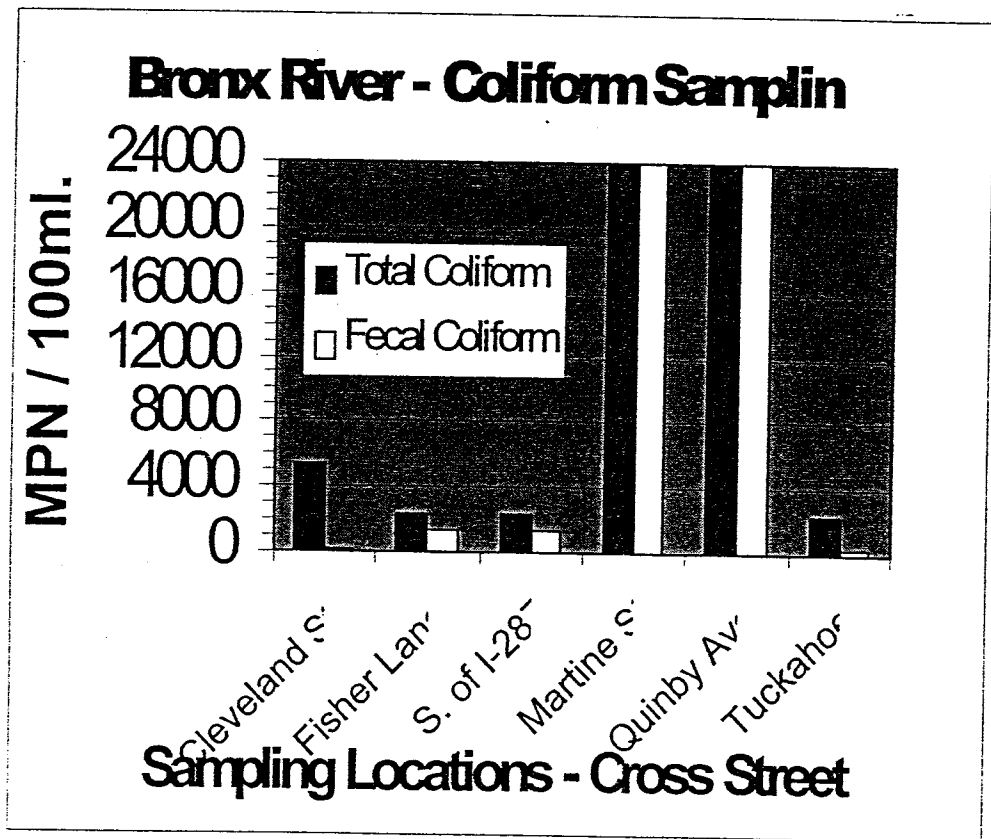
SAMPLING LOCATIONS -Six sites were selected based on previous studies, field reconnaissance, and conversations with others (see attached map.) Robert Bode, coauthor of the Study referred to above was very helpful, as was Ron Pierce of the Regional Fisheries unit. He provided insight based on a separate field study, and provided a letter from Charles Cutietta-Olson of the New York City Department of Environmental Protection whose independent study reinforces and expands the other data. Sampling took place on June 24th during a dry period which characterized the early summer of '99. Sampling and direction of river flow is from North to South.

Cleveland Street - Valhalla E399-0621-1205	Two blocks South of Bode's Station 1.
Fisher Lane - North White Plains E399-0621-1204	Downstream of Metro-North Rail Yard. Suggested by Ron Pierce.
South of Interstate 287 E399-0621-1203	Suggested by Charles Cutietta-Olson.
Martine Street - White Plains E399-0621-1202	Major Storm Outfalls for the City of White Plains, by personal observation and Charles Cutietta-Olson suggestion.
Quinby Avenue - White Plains E399-0621-1201	One block South of Bode's Station 2.
Tuckahoe E399-0621-1206	At Bode's Station 3.

RESULTS - copies of the results of the laboratory analysis are attached. The following table summarizes these results:

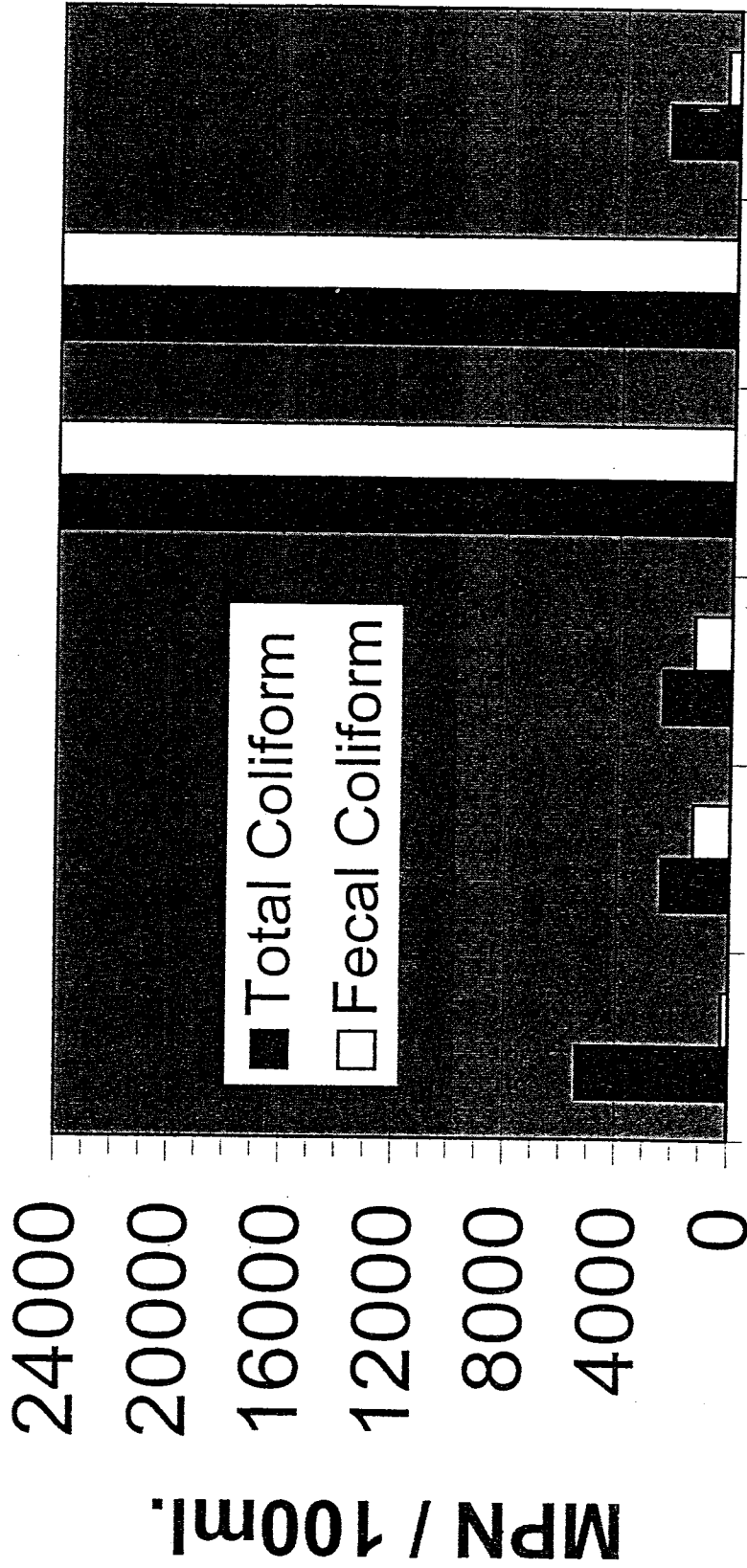
	Total Coliform	Fecal Coliform
Cleveland St.	5400	250
Fisher Lane	2400	1300
S. of I-287	2400	1300
Martine St.	>24000	>24000
Quinby Ave	>24000	>24000
Tuckahoe	2400	410

N.B. All numbers are expressed as MPN / 100ml.



CONCLUSIONS - All six samples showed a presence of coliform, which might be anticipated in a suburban waterway. The two samples taken in White Plains were "off-the-chart." Additional sampling in the urban area might disclose specific outfalls or areas for remediation.

Bronx River - Coliform Sampling



Cleveland St.
Fisher Lane
S. of I-287
Martine St
Quinby Ave
Tuckahoe

Sampling Locations - Cross Streets



Westchester County Department of Labs Research 2 Dana Road Valhalla, New York 10595

Agency: NYS Dept of Env Conservation
50 Wolf Road, Room 392
Albany, NY 12233-3502

Sample Location: BRONX RIVER
E399-0621-1205

Attention: Raymond L Gabriel J

Sample Point: #5 @CLEVELAND ST VALHA
Collection Date: 6/24/99 AT 12:00:00 PM
Submitted On: 6/24/99 AT 2:25:00 PM

Received By: EP
Bottle No.: 4224
Collected By: SELLINGER
pH:
Free Cl2: Residual Cl2:

PWS No.:
Source Code:
Type Descriptor:
Identification of source: BRONX RIVER
Comments:

Report To: Stephen H. Sellinger
200 White Plains Rd. 5th Floor Tarrytown, New York 10591

Sample No. AB15624

Test Description	Units	Results
Date/Time Set		6/24/99 AT 3:18:00 PM
Heterotrophic Plate Count	CFU/ml	76
Coliform, Most Probable Number	per 100ml	5400
Fecal Coliform, Most Probable Number	per 100ml	250

Approved By: Ann Marie Bury Bacteriology Supervisor **Date Approved:** 6/29/99
Environmental Laboratories
 NYS ELAP # 10108
 (914) 593-5575



Westchester County Department of Labs Research 2 Dana Road Valhalla, New York 10595

Agency: NYS Dept of Env Conservation
50 Wolf Road, Room 392
Albany, NY 12233-3502

Sample Location: BRONX RIVER
E399-0621-1204

Attention: Raymond L Gabriel J

Sample Point: #4 @ FISHER LA RR STA
Collection Date: 6/24/99 AT 11:30:00 AM
Submitted On: 6/24/99 AT 2:25:00 PM

Received By: EP
Bottle No.: 3752
Collected By: SELLINGER
pH:
Free Cl2: Residual Cl2:

PWS No.:
Source Code:
Type Descriptor:
Identification of source: BRONX RIVER
Comments:

Report To: Stephen H. Sellinger
200 White Plains Rd. 5th Floor Tarrytown, New York 10591

Sample No. AB15625

Test Description	Units	Results
Date/Time Set		6/24/99 AT 3:18:00 PM
Heterotrophic Plate Count	CFU/ml	110
Coliform, Most Probable Number	per 100ml	2400
Fecal Coliform, Most Probable Number	per 100ml	1300

Approved By: Ann Marie Bury Bacteriology Supervisor

Date Approved: 6/29/99

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Westchester County Department of Labs Research 2 Dana Road Valhalla, New York 10595

Agency: NYS Dept of Env Conservation
50 Wolf Road, Room 392
Albany, NY 12233-3502

Sample Location: BRONX RIVER
E399-0621-1203

Attention: Raymond L Gabriel J

Sample Point: #3 S. OF I-287

Collection Date: 6/24/99 AT 11:15:00 AM

Submitted On: 6/24/99 AT 2:25:00 PM

Received By: EP

Bottle No.: 4486

Collected By: SELLINGER

pH:

Free Cl₂:

Residual Cl₂:

PWS No.:

Source Code:

Type Descriptor:

Identification of source: BRONX RIVER

Comments:

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200 White Plains Rd. 5th Floor Tarrytown, New York 10591

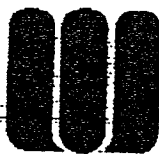
Sample No. AB15626

Test Description	Units	Results
Date/Time Set		6/24/99 AT 3:18:00 PM
Heterotrophic Plate Count	CFU/ml	1200
Coliform, Most Probable Number	per 100ml	2400
Fecal Coliform, Most Probable Number	per 100ml	1300

Approved By: Ann Marie Bury Bacteriology Supervisor

Date Approved: 6/29/99

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NYS ELAP # 10108
(914) 593-3575



Westchester County Department of Labs Research 2 Dana Road Valhalla, New York 10595

Agency: NYS Dept of Env Conservation
50 Wolf Road, Room 392
Albany, NY 12233-3502

Sample Location: BRONX RIVER
E399-0621-1202

Attention: Raymond L Gabriel J

Sample Point: #2 @ WPY MARTINE ST
Collection Date: 6/24/99 AT 11:00:00 AM
Submitted On: 6/24/99 AT 2:25:00 PM

Received By: EP
Bottle No.: 4517
Collected By: SELLINGER
pH:

PWS No.:

Source Code:

Type Descriptor:

Free Cl2: Residual Cl2:

Identification of source: BRONX RIVER

Comments:

Report To: Stephen H. Sellinger
200 White Plains Rd. 5th Floor Tarrytown, New York 10591

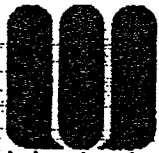
Sample No. AB15627

Test Description	Units	Results
Date/Time Set		6/24/99 AT 3:18:00 PM
Heterotrophic Plate Count	CFU/ml	9600
Coliform, Most Probable Number	per 100ml	>24000
Fecal Coliform, Most Probable Number	per 100ml	>24000

Approved By: Ann Marie Bury Bacteriology Supervisor

Date Approved: 6/29/99

Environmental Laboratories
NYS ELAP # 10108
(914) 593-5575



Westchester County Department of Labs Research 2 Dana Road Valhalla, New York 10595

Agency: NYS Dept of Env Conservation
50 Wolf Road, Room 392
Albany, NY 12233-3502

Sample Location: BRONX RIVER
E399-0621-1201

Attention: Raymond L Gabriel J

Sample Point: #1 @QUINBY AVE RR
Collection Date: 6/24/99 AT 10:45:00 AM
Submitted On: 6/24/99 AT 2:25:00 PM

Received By: EP
Bottle No.: 3898

Collected By: SELLINGER

pH:

Free Cl2:

Residual Cl2:

PWS No.:

Source Code:

Type Descriptor:

Identification of source: BRONX RIVER

Comments:

Report To: Stephen H. Sellinger
200 White Plains Rd. 5th Floor Tarrytown, New York 10591

Sample No. AB15628

Test Description	Units	Results
Date/Time Set		6/24/99 AT 3:18:00 PM
Heterotrophic Plate Count	CFU/ml	8200
Coliform, Most Probable Number	per 100ml	>24000
Fecal Coliform, Most Probable Number	per 100ml	>24000

Approved By: Ann Marie Bury

Bacteriology Supervisor

Date Approved: 6/29/99

Environmental Laboratories

NYS ELAP # 10108

(914) 593-5575



Westchester County Department of Labs Research 2 Dana Road Valhalla, New York 10595

Agency: NYS Dept of Env Conservation
50 Wolf Road, Room 392
Albany, NY 12233-3502

Sample Location: BRONX RIVER
E399-0621-1206

Attention: Raymond L Gabriel J

Sample Point: TUCKAHOE
Collection Date: 6/24/99 AT 1:00:00 PM
Submitted On: 6/24/99 AT 2:25:00 PM

Received By: EP
Bottle No.: 4600
Collected By: SELLINGER
pH:
Free Cl2: **Residual Cl2:**

PWS No.:
Source Code:
Type Descriptor:
Identification of source: BRONX RIVER
Comments:

Report To: Stephen H. Sellinger
200 White Plains Rd. 5th Floor Tarrytown, New York 10591

Sample No. AB15623

Test Description	Units	Results
Date/Time Set		6/24/99 AT 3:18:00 PM
Heterotrophic Plate Count	CFU/ml	1100
Coliform, Most Probable Number	per 100ml	2400
Fecal Coliform, Most Probable Number	per 100ml	410

Approved By: Ann Marie Bury Bacteriology Supervisor

Date Approved: 6/29/99

Environmental Laboratories
NYS ELAP # 10108
(914) 593-5575