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for the U.S. Department of Energy

February 9, 2005

Ms. Kathleen Newcomer
Suffolk County Department of Health Services
Bureau of Drinking Water
220 Rabro Drive East
Hauppauge, New York 11788

Dear Ms. Kathleen Newcomer:

Subject: Monthly Water Treatment Plant Reports
Reference: Suffolk County Minimum Monitoring Requirements for January 2005

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2005 SCDHS Minimum Monitoring Requirements for the BNL Potable Water Supply, included please find the following attachments for your records:

- Attachment I: BNL Potable Water Monthly Operational Data for January.
- Attachment II: January 2005 Biweekly Water Quality Monitoring Data for the BNL Distribution System.
- Attachment III: January 2005 Stage I Disinfectants & Disinfection Byproduct Rule Monitoring Data and Bacteriological Analyses for the BNL Distribution System.

Collection and analysis of these samples is performed in accordance with the guidelines of the BNL Quality Assurance program, the SCDHS Community Water Supply Monitoring Requirements, and the BNL Potable Water System Sampling Plan. Plant Engineering Division personnel using standard operating procedures collect routine monitoring samples; a contractor laboratory using standard methods of analysis performs the subsequent analyses. The Quality Assurance documentation is available from the Environmental and Waste Management Services Division and Plant Engineering Divisions. Based on this information, we believe the values contained in these reports are representative of the BNL potable water system.

Please note that the flow monitoring equipment which totalizes the amount of water treated by the Water Treatment Facility failed in December 2004. Therefore, the column that summarizes the amount of treated water passing through the Water Treatment Facility on the Water Systems Operation Report does not contain data. Due to the age of the equipment it could not be repaired. New digital equipment has been purchased and is awaiting installation.



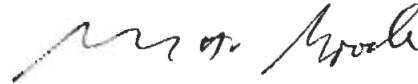
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National Standards Institute-
Registry Accreditation Board

Should there be any questions regarding this report or the analytical or operational data contained herein, please call either M. Allocco at (631) 344-3166, R. Lee at (631) 344-3148, or W. Chaloupka at (631) 344-7136.

Sincerely,



George A. Goode
Environmental & Waste Management Services
Division Manager

GAG/MA:car

Attachments: As noted

cc:	M. Allocco	w/attachments
	L. Ambroszkiewicz, SCDHS	w/attachments
	W. Chaloupka	w/attachments
	J. Granzen	w/attachments
	G. Goode	w/o attachments
	R. Lee	w/attachments
	E. Murphy	w/attachments
	P. Ponturo, SCDHS	w/o attachments
	L. Ross	w/o attachments
	J. Tarpinian	w/o attachments

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ATTACHMENT I

Brookhaven National Laboratory

Potable Water Supply

Monthly Operational Data for January 2005

for the BNL Potable Water System

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169

STATION 11515100

SUFFOLK COUNTY

REPORTING PERIOD: **JANUARY 2005**

LOCATION: **Water Treatment Facility**

Did an emergency occur in any part of the water system? YES _____ NO X

Source: Ground Water

Does the system have a chlorination waiver? YES _____ NO X

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite		Free Cl2 Residual	Line Sodium Hydroxide	Totalizer	
		Gallons	Cl2 use per 24hrs				
	K. Gals	105					13263137
1	0						
2	0						
3	0	90	15	0.40	7.6		13263137
4	0	85	5	0.96	7.5		13263137
5	0	200	0	1.00	7.5		13263137
6	0	195	5	1.10	7.5		13263137
7	0	185	10	0.65	7.5		13263137
8	0						
9	0						
10	0	162	23	0.87	7.7		13263137
11	0	153	9	0.90	7.5		13263137
12	0	146	7	0.76	7.5		13263137
13	0	140	6	0.71	7.5		13263137
14	0	130	10	0.85	7.7		13263137
15	0	120	10	0.87	7.7		13263137
16	0						
17	0						
18	0	90	30	0.75	7.6		13263137
19	0	85	5	0.54	7.4		13263137
20	0	70	15	0.70	7.5		13263137
21	0	60	10	0.93	7.5		13263137
22	0						
23	0						
24	0	30+90	30	1.05	7.4		13263137
25	0	120	0	1.00	7.7		13263137
26	0	80+40	5	0.82	7.5		13263137
27	0	110	10	1.00	7.5		13263137
28	0	105+85	5	1.10	7.5		13263137
29	0						
30	0						
31	0	170	20	0.77	7.4		13263137
TOT	0		230				
AVG.	0.00		7.42	No. Days:	31		

Population Served **3,500**

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES _____ NO X

If yes, check reason's below.

____ Actual number of samples fewer than required.

____ Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

____ Failure to analyze repeat samples.

Does an MCL violation exist? YES _____ NO X

If yes, check reason(s) below.

____ Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

____ Positive E. Coli result followed by a positive total coliform repeat sample.

____ Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by *J. H. Smith*

Date: 2-7-05

Title: **Water Systems Supervisor**

Certification No. **NY0031941**

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: JANUARY 2005
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LOCATION: **WELL NO. 4**

Did an emergency occur in any part of the water system? YES NO

Source: Ground Water Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer 1648622
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl2 use per 24hrs				
1	0						
2	0						
3	0	0	0	NR	NR	1648622	
4	0	0	0	NR	NR	1648622	
5	0	0	0	NR	NR	1648622	
6	0	0	0	NR	NR	1648622	
7	0	0	0	NR	NR	1648622	
8	0						
9	0						
10	0	0	0	NR	NR	1648622	
11	0	0	0	NR	NR	1648622	
12	0	0	0	NR	NR	1648622	
13	0	0	0	NR	NR	1648622	
14	0	0	0	NR	NR	1648622	
15	0	0	0	NR	NR	1648622	
16	0						
17	0						
18	0	0	0	NR	NR	1648622	
19	0	0	0	NR	NR	1648622	
20	0	0	0	NR	NR	1648622	
21	0	0	0	NR	NR	1648622	
22	0						
23	0						
24	0	0	0	NR	NR	1648622	
25	0	0	0	NR	NR	1648622	
26	0	0	0	NR	NR	1648622	
27	0	0	0	NR	NR	1648622	
28	0	0	0	NR	NR	1648622	
29	0						
30	0						
31	0	0	0	NR	NR	1648622	
TOT	0		0				
AVG.	0.00		0.00	No. Days:	31		

Population Served **3,500**

Number of routine samples 4
 (Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 2

Does a M&AR violation exist? YES NO

- If yes, check reason's below.
- Actual number of samples fewer than required.
 - Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.
 - Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

- If yes, check reason(s) below.
- Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.
 - Positive E. Coli result followed by a positive total coliform repeat sample.
 - Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *[Signature]*

Date: 2-7-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: JANUARY 2005
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LOCATION: **WELL NO. 6**

Did an emergency occur in any part of the water system? YES NO

Source: Ground Water

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer 515516
	Treated Water	Liquid Sodium Hypochlorite		Free Cl2	Lime	Sodium Hydroxide	
		Gallons	Cl2 use per 24hrs	Residual mg/l	Sodium		
1	0	126					
2	0						
3	143	117	9	0.53	6.1		515659
4	18	117	0	0.79	6.1		515677
5	321	102	15	0.64	6.1		515998
6	296	99+51	3	0.03	6.1		516294
7	244	150	0	0.03	6.1		516538
8	0						
9	0						
10	919	150	0	0.60	6.1		517457
11	334	150	0	0.04	6		517791
12	315	135	15	0.18	6.1		518106
13	197	126	9	1.00	6		518303
14	382	111	15	0.30	6		518685
15	187	110	1	0.35	6.1		518872
16	0						
17	0						
18	764	78	32	0.18	6		519636
19	246	72	6	0.12	6		519882
20	301	56+94	16	0.18	6		520183
21	272	141	9	0.14	6.1		520455
22	0						
23	0						
24	767	138	3	0.30	6.1		521222
25	123	138	0	0.20	6.1		521345
26	243	135	3	0.10	6.1		521586
27	334	129	6	0.17	6.1		521922
28	450	105	24	0.20	6.1		522372
29	0						
30	0						
31	1,010	90	15	0.08	6.1		523382
TOT	7,866		181				
AVG.	253.74		5.84	No. Days:	31		

Population Served **3,500**

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a **positive result** for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *[Signature]*

Date: 2-7-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: JANUARY 2005
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LOCATION: **WELL NO. 7**

Did an emergency occur in any part of the water system? YES NO

Source: **Ground Water** Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite Gallons	Free Cl2 Cl2 use per 24hrs	Residual mg/l	Lime Sodium Hydroxide	Totalizer	
	K Gals	135					
1	0						
2	0						
3	1,416	105	30	0.53	6.1	1596496	
4	662	84	21	0.79	6.1	1597158	
5	865	63	19	0.64	6.1	1598023	
6	752	39+111	24	0.03	6.1	1598775	
7	814	141	9	0.03	6.1	1599589	
8	0						
9	0						
10	2,305	75	66	0.60	6.1	1601894	
11	875	42+108	33	0.02	6	1602769	
12	870	135	15	0.18	6.1	1603639	
13	592	126	9	1.00	6	1604231	
14	994	111	15	0.30	6	1605225	
15	780	110	1	0.35	6.1	1606005	
16	0						
17	0						
18	2,157	69	41	0.18	6	1608162	
19	631	64	5	0.12	6	1608793	
20	824	63+87	1	0.18	6	1609617	
21	799	130	20	0.14	6.1	1610416	
22	0						
23	0						
24	2,326	87	43	0.30	6.1	1612742	
25	511	69	18	0.20	6.1	1613253	
26	732	69	0	0.10	6.1	1613985	
27	854	51	18	0.17	6.1	1614839	
28	568	48+102	3	0.20	6.1	1615427	
29	0						
30	0						
31	2,111	90	40	0.08	6.1	1617538	
TOT	22,458		431				
AVG.	724.45		13.90	No. Days:	31		

Population Served **3,500**

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 2

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *JL [Signature]*

Date: 2-7-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: JANUARY 2005
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LOCATION: **WELL NO. 10**

Source: Ground Water

Did an emergency occur in any part of the water system? YES NO

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer 770389
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl2 use per 24hrs				
1	0						
2	0						
3	0	0	0	NR	NR	770389	
4	0	0	0	NR	NR	770389	
5	0	0	0	NR	NR	770389	
6	0	0	0	NR	NR	770389	
7	0	0	0	NR	NR	770389	
8	0						
9	0						
10	599	0	0	NR	NR	770988	
11	0	0	0	NR	NR	770988	
12	0	0	0	NR	NR	770988	
13	0	0	0	NR	NR	770988	
14	0	0	0	NR	NR	770988	
15	0	0	0	N	NR	770988	
16	0						
17	0						
18	0	0	0	NR	NR	770988	
19	0	0	0	NR	NR	770988	
20	0	0	0	NR	NR	770988	
21	0	0	0	NR	NR	770988	
22	0						
23	0						
24	0	0	0	NR	NR	770988	
25	0	0	0	NR	NR	770988	
26	0	0	0	NR	NR	770988	
27	0	0	0	NR	NR	770988	
28	0	0	0	NR	NR	770988	
29	0						
30	0						
31	0	0	0	NR	NR	770988	
TOT	599		0				
AVG.	19.32		0.00	No. Days:	31		

Population Served **3,500**

Number of routine samples 4
 (Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *JL Koser*

Title: Water Systems Supervisor

Date: 2-7-05

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: JANUARY 2005
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LOCATION: WELL NO. 11

Did an emergency occur in any part of the water system? YES NO

Source: Ground Water Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite	Free Cl ₂	Residual	Lime	Sodium Hydroxide	
	K Gals	Gallons	per 24hrs	mg/l			
1	0						
2	0						
3	1,324	96	27	1.10	6.9	616648	
4	521	90	6	1.00	7	617169	
5	141	87	3	1.00	7	617310	
6	0	87	0	NR	NR	617310	
7	0	87	0	NR	NR	617310	
8	0						
9	0						
10	46	87	0	NR	NR	617356	
11	0	87	3	0.90	7.4	617356	
12	6	87	0	NR	NR	617362	
13	0	87	0	NR	NR	617362	
14	0	87	0	NR	NR	617362	
15	0	87	0	NR	NR	617362	
16	0						
17	0						
18	2	87	0	NR	NR	617364	
19	0	87	0	NR	NR	617364	
20	0	87	0	NR	NR	617364	
21	32	87	0	NR	NR	617396	
22	0						
23	0						
24	0	87	0	NR	NR	617396	
25	0	87	0	NR	NR	617396	
26	0	87	0	NR	NR	617396	
27	0	87	0	NR	NR	617396	
28	1	87	0	NR	NR	617397	
29	0						
30	0						
31	0	87	0	NR	NR	617397	
TOT	2,073		39				
AVG.	66.87		1.26	No. Days:	31		

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following

a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or turb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *JK Ross*

Date: 2-7-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: JANUARY 2005
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LOCATION: WELL NO. 12

Did an emergency occur in any part of the water system? YES NO

Source: Ground Water Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl ₂	Lime	Residual Sodium Hydroxide	
		Gallons	Cl ₂ use per 24hrs	mg/l	Sodium Hydroxide		
1	0	54					696061
2	0						
3	0	54	0	NR	NR		696061
4	0	54	0	NR	NR		696061
5	2	54	0	NR	NR		696063
6	0	54	0	NR	NR		696063
7	0	54	0	NR	NR		696063
8	0						
9	0						
10	37	54	0	NR	NR		696100
11	0	54	0	NR	NR		696100
12	0	54	0	NR	NR		696100
13	0	54	0	NR	NR		696100
14	0	54	0	NR	NR		696100
15	0	54	0	NR	NR		696100
16	0						
17	0						
18	2	54	3	NR	NR		696102
19	0	54	0	NR	NR		696102
20	0	54	0	NR	NR		696102
21	32	54	0	NR	NR		696134
22	0						
23	0						
24	0	54	0	NR	NR		696134
25	0	54	0	NR	NR		696134
26	0	54	0	NR	NR		696134
27	0	54	0	NR	NR		696134
28	1	54	0	NR	NR		696135
29	0						
30	0						
31	0	54	0	NR	NR		696135
TOT	74		3				
AVG.	2.39		0.10	No. Days	31		

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or future) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *[Signature]*

Date: 2-7-05

Title: Water Systems Supervisor

Certification No. NY0031941

1/31/2005
Pump Data

MONTHLY GALLONAGE REPORT
JAN2005.XLS

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	143	1,416	0	1,324	0	2,883
4	0	18	662	0	521	0	1,201
5	0	321	865	0	141	2	1,329
6	0	296	752	0	0	0	1,048
7	0	244	814	0	0	0	1,058
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	919	2,305	599	46	37	3,906
11	0	334	875	0	0	0	1,209
12	0	315	870	0	6	0	1,191
13	0	197	592	0	0	0	789
14	0	382	994	0	0	0	1,376
15	0	187	780	0	0	0	967
16	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0
18	0	764	2,157	0	2	2	2,925
19	0	246	631	0	0	0	877
20	0	301	824	0	0	0	1,125
21	0	272	799	0	32	32	1,135
22	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0
24	0	767	2,326	0	0	0	3,093
25	0	123	511	0	0	0	634
26	0	243	732	0	0	0	975
27	0	334	854	0	0	0	1,188
28	0	450	588	0	1	1	1,040
29	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0
31	0	1,010	2,111	0	0	0	3,121
Total	0	7,866	22,458	599	2,073	74	33,070
		Totalizer		Totalizer		Total(x1,000)	
		This Month		Last Month		Gallons	
	Well 4	1,648,622		1,648,622		0	
	Well 6	523,382		515,516		7,866	
	Well 7	1,617,538		1,595,080		22,458	
	Well 10	770,988		770,389		599	
	Well 11	617,397		615,324		2,073	
	Well 12	696,135		696,061		74	
AGS Water Supply Meter		521,868		516,377		5491.00	
Medical Reactor - Well 105		0		0		0.00	
Biology Building - Well 9		6,792,770		6,792,770		0.00	

ATTACHMENT II

Brookhaven National Laboratory

Potable Water Supply

January 2005 Biweekly Water Quality Monitoring Data

for the BNL Distribution System

Attachment II
Table 1 - Summary of Water Quality Analyses
for the BNL Potable Water System
January 2005

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (µmhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	1/4/05	7.5	56	150	ANR	ANR
WTP	1/6/05	7.5	52	148	ANR	ANR
WTP	1/11/05	7.4	53	145	ANR	ANR
WTP	1/13/05	7.7	54	138	ANR	ANR
WTP	1/18/05	7.6	53	140	ANR	ANR
WTP	1/20/05	7.5	52	141	ANR	ANR
WTP	1/25/05	7.7	56	152	ANR	ANR
WTP	1/27/05	7.5	56	145	ANR	ANR
Well 11	1/4/05	7.0	56	140	ANR	ANR
Well 11	1/6/05	6.7	56	144	ANR	ANR
Well 11	1/11/05	7.4	56	164	ANR	ANR
Well 11	1/18/05	7.0	55	159	ANR	ANR
Well 11	1/20/05	6.1	56	185	ANR	ANR
Well 11	1/27/05	7.2	55	178	ANR	ANR

ANR- Analysis Not Required

NR- Not Reported

Note: Field parameters are only conducted for facilities that are in operation on the day of measurement.

ATTACHMENT III

Brookhaven National Laboratory

Potable Water Supply

January 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule

Monitoring Data and Bacteriological Analyses for the BNL Distribution System

Attachment III

January 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data
 Table II - Maximum Residual Disinfectant Level (MRDL) Compliance

Location	Total Residual Chlorine (mg/L)											
	Feb. 04	Mar. 04	Apr. 04	May 04	June 04	July 04	Aug. 04	Sept. 04	Oct. 04	Nov. 04	Dec. 04	Jan. 05
Bldg. 49 Water Tower	0.7	1.1	1.0	1.0	0.8	0.8	1.0	0.7	0.8	0.8	0.5	0.7
Bldg. 640 Water Tower	0.6	1.1	0.6	1.0	0.6	0.5	0.5	0.3	0.6	0.5	0.5	0.6
Bldg. 363 Apt. Laundry	0.5	0.9	0.3	0.8	0.4	0.6	0.5	0.6	0.5	0.5	0.4	0.6
Bldg. 1005 RHIC	0.7	0.5	0.4	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5
Bldg. 930 LINAC	NS	1.1	NS	0.9	NS	0.8	NS	0.9	NS	0.8	NS	0.6
Bldg. 725 NLS	0.5	NS	1.7	NS	0.8	NS	0.9	NS	0.7	NS	0.5	NS
Bldg. 490 Outpatient Clinic	NS	1.0	NS	1.0	NS	0.8	NS	0.7	NS	0.7	NS	0.7
Bldg. 490 Block 11	NS	1.0	NS	1.0	NS	0.6	NS	0.3	NS	0.8	NS	0.6
Bldg. 490 Block 1 ACF	0.5	NS	1.0	NS	0.6	NS	0.4	NS	0.8	NS	0.5	NS
Bldg. 490 Block 4 MRC	0.5	NS	1.1	NS	0.6	NS	0.9	NS	0.7	NS	0.5	NS
Monthly Average	0.6	1.0	0.9	0.9	0.6	0.7	0.7	0.6	0.7	0.7	0.5	0.6

NA - Not Applicable

NS- Not Scheduled for sampling

Running Annual Average (mg/L) 0.7 (Total Residual Chlorine)
 MRDL (mg/L) 4.0

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM
70 Bell Ave.
Upton, NY 11973
Attn To : Marcia Allocco

Lab No. : 0501163-015

Sample Information...
Type : Potable Water
Origin: Distribution

Federal ID : 5111891

Client ID. : 19604-015

Collected : 1/7/2005 10:10:00 AM

Point No: 094-273

Received : 1/7/2005 3:10:00 PM

Location: B-49 Water Tower

Collected By CLIENT

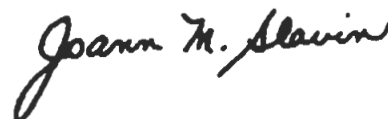
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Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		1		Negative	M9223	01/08/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	01/08/2005 11:30 AM
Total Residual Chlorine	0.7		1	mg/L		M4500-Cl G	01/07/2005

Result(s) reported meet(s) Regulatory Limit(s).
Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted.
D.F. = Dilution Factor

Date Reported : 2/3/2005



Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
 (631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM
 70 Bell Ave.
 Upton, NY 11973
 Attn To : Marcia Allocco

Lab No. : 0501163-002A

Sample Information...
 Type : Potable Water
 Origin : Distribution
 Routine

Federal ID 5111891

Client ID. : 19604-002

Collected : 1/7/05 9:00:00 AM

Point No : 076-408

Received : 1/7/05 3:10:00 PM

Location : B-640 Water Tower

Collected By : CLIENT

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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	01/08/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	01/08/2005 11:30 AM
Total Residual Chlorine	0.6		1	mg/L		M4500-Cl G	01/07/2005

Result(s) reported in bold(s) Regulatory Limit(s).

Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted.

D.F. = Dilution Factor

Date Reported : 2/3/05

Joann M. Slavin

H2M LABS, INC.575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 FAX: (631) 420-8436 NYSDOH ID# 10478**LABORATORY RESULTS**

Lab No. : 0501163-003A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Marcia Allocco

Federal ID 5111891

Client ID. : 19604-003

Collected : 1/7/05 10:25:00 AM

Point No : 109-19

Received : 1/7/05 3:10:00 PM

Location : B-363 Apt.Laundry

Collected By : CLIENT

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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	01/08/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	01/08/2005 11:30 AM
Total Residual Chlorine	0.6		1	mg/L		M4500-CI G	01/07/2005

Result(s) reported meet(s) Regulatory Limit(s).

Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted.

D.F. = Dilution Factor

Date Reported : 2/3/05

Joann M. Slavin

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 664-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brockhaven National Lab.-BNLM
70 Bell Ave.
Upton, NY 11973
Attn To : Marcia Allocco

Lab No. : 0501163-004

Sample Information...
Type : Potable Water
Origin: Distribution

Federal ID : 5111891

Client ID. : 19604-004

Collected : 1/7/2005 10:54:00 AM Point No: 045-12
Received : 1/7/2005 3:10:00 PM Location: B-1005 RHIC

Collected By CLIENT

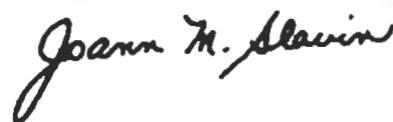
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	01/08/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	01/08/2005 11:30 AM
Total Residual Chlorine	0.5		1	mg/L		M4500-CI G	01/07/2005

Result(s) reported meet(s) Regulatory Limit(s).
Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted.
D.F. = Dilution Factor

Date Reported : 2/3/2005



Laboratory Manager

BNLM157 A31

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM
70 Bell Ave.
Upton, NY 11973
Attn To : Marcia Allocco

Lab No. : 0501163-005

Sample Information...
Type : Potable Water
Origin: Distribution

Federal ID : 5111891

Client ID. : 19604-005

Collected : 1/7/2005 11:04:00 AM Point No: 054-187
Received : 1/7/2005 3:10:00 PM Location: B-930 LINAC

Collected By CLIENT

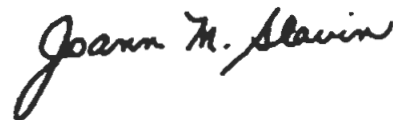
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	01/08/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	01/08/2005 11:30 AM
Total Residual Chlorine	0.6		1	mg/L		M4500-CI G	01/07/2005

Result(s) reported meet(s) Regulatory Limit(s).
Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted.
D.F. = Dilution Factor

Date Reported : 2/3/2005



Laboratory Manager

BNLM157 A32

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(831) 084-3040 . FAX: (831) 420-8438 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM
70 Bell Ave.
Upton, NY 11973
Attn To : Marcia Allocco

Lab No. : 0501163-006

Sample Information...
Type : Potable Water
Origin: Distribution

Federal ID : 5111891

Client ID. : 19604-006

Collected : 1/7/2005 1:10:00 PM

Point No: 084-70

Received : 1/7/2005 3:10:00 PM

Location: B-490 Outpatient Clinic

Collected By CLIENT

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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	01/08/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	01/08/2005 11:30 AM
Total Residual Chlorine	0.7		1	mg/L		M4500-CI G	01/07/2005

Result(s) reported meet(s) Regulatory Limit(s).
Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted.
D.F. = Dilution Factor

Date Reported : 2/3/2005

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM
70 Bell Ave.
Upton, NY 11973
Attn To : Marcia Allocco

Lab No. : 0501163-007

Sample Information...
Type : Potable Water
Origin: Distribution

Federal ID : 5111891

Client ID. : 19604-007

Collected : 1/7/2005 1:20:00 PM Point No: 084-67

Received : 1/7/2005 3:10:00 PM Location: B-490 Block 11

Collected By CLIENT

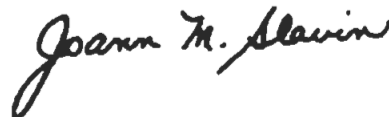
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Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		1		Negative	M9223	01/08/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	01/08/2005 11:30 AM
Total Residual Chlorine	0.6		1	mg/L		M4500-Cl G	01/07/2005

Result(s) reported meet(s) Regulatory Limit(s).
Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted.
D.F. = Dilution Factor

Date Reported : 2/3/2005



Laboratory Manager

BNLM157 A34