

BROOKHAVEN
NATIONAL LABORATORY

Managed by Brookhaven Science Associates
for the U.S. Department of Energy

June 9, 2004

Ms. Kathleen Newcomer
Suffolk County Department of Health Services
Drinking Water Supply Section
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 May 2004

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2004 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 and Bacteriological Analyses for May.
- Attachment II: May 2004 Biweekly Water Quality Monitoring Data for the BNL Distribution System and Potable Water Wells.
- Attachment III: May 2004 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data for the BNL Distribution System.

All analytical results have been reviewed and have been found to be within New York State Department of Health Drinking Water Standards (NYSDOH DWS). Collection and analysis of these samples are 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.



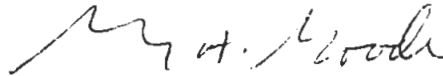
REGISTERED TO
ISO 14001: 1996



ASME
INTERNATIONAL
REGISTERED TO
ISO 9001: 2000

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 and Bacteriological Analyses for May 2004

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:

MAY 2004

LOCATION: **Water Treatment Facility**

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 13111981
	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	1	170	0	1.04	6.3	13111982	
4	0	170	0	0.99	6.5	13111982	
5	0	170	0	0.99	7.8	13111982	
6	1,219	152	18	0.91	7.4	13113201	
7	1,201	132	20	1.1	7.5	13114402	
8	0						
9	0						
10	3,356	73	59	1	7.3	13117758	
11	1,153	60	13	0.54	7.3	13118911	
12	1,186	40+160	20	0.97	7.4	13120097	
13	1,137	185	15	1	7.3	13121234	
14	1,205	171	14	0.64	7.3	13122439	
15	0						
16	0						
17	3,275	135+75	36	0.62	7.2	13125714	
18	1,166	190	15	0.76	7.6	13126880	
19	1,163	170	20	1	7.5	13128043	
20	1,171	155	15	0.5	7.6	13129214	
21	1,140	145	10	0.4	7.5	13130354	
22	0						
23	0						
24	2,898	120	25	0.71	7.5	13133252	
25	901	110	10	0.85	7.5	13134153	
26	894	100	10	1.1	7.5	13135047	
27	790	92	8	0.78	7.6	13135837	
28	934	82+118	10	0.7	7.6	13136771	
29	0						
30	0						
31	2,706	170	30	0.76	7.8	13139477	
TOT	27,496		348				
AVG.	886.97		11.23	No. Davs.	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:

6-8-04

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: MAY 2004
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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	120	0	NR	NR	1648622	
4	0	120	0	NR	NR	1648622	
5	0	120	0	NR	NR	1648622	
6	0	120	0	NR	NR	1648622	
7	0	120	0	NR	NR	1648622	
8	0						
9	0						
10	0	120	0	NR	NR	1648622	
11	0	120	0	NR	NR	1648622	
12	0	120	0	NR	NR	1648622	
13	0	120	0	NR	NR	1648622	
14	0	120	0	NR	NR	1648622	
15	0						
16	0						
17	0	120	0	NR	NR	1648622	
18	0	120	0	NR	NR	1648622	
19	0	120	0	NR	NR	1648622	
20	0	120	0	NR	NR	1648622	
21	0	120	0	NR	NR	1648622	
22	0						
23	0						
24	0	120	0	NR	NR	1648622	
25	0	120	0	NR	NR	1648622	
26	0	120	0	NR	NR	1648622	
27	0	120	0	NR	NR	1648622	
28	0	120	0	NR	NR	1648622	
29	0						
30	0						
31	0	120	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 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: 6-5-04

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: MAY 2004
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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
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl ₂ Residual mg/l	Lime Sodium Hydroxide	Totalizer	
		Gallons	Cl ₂ use per 24hrs				
1	0						
2	0						
3	0	120	0	NR	NR	436196	
4	0	120	0	NR	NR	436196	
5	0	120	0	NR	NR	436196	
6	301	112	8	0.97	6.2	436497	
7	243	110+40	2	NR	NR	436740	
8	0						
9	0						
10	823	147	3	0.1	6.2	437563	
11	249	147	0	0.01	6.1	437812	
12	270	147	0	0.1	6.2	438082	
13	474	147	0	0.02	6.2	438556	
14	355	135	12	0.15	6.2	438911	
15	0						
16	0						
17	959	123+27	8	0.02	6.2	439870	
18	359	135	15	0.12	6.2	440229	
19	403	126	9	0.12	6.2	440632	
20	444	117	9	0.08	6.2	441076	
21	355	108+42	9	0.12	6.2	441431	
22	0						
23	0						
24	1,229	114	36	0.18	6.1	442660	
25	506	102	12	0.08	6.2	443166	
26	350	93	9	0.02	6.2	443516	
27	324	84	9	0.08	6.2	443840	
28	328	80+70	4	0.18	6.2	444168	
29	0						
30	0						
31	987	123	27	0.26	6.1	445155	
TOT	8,959		172				
AVG	289.00		5.55	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: 6-5-04

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: MAY	2004
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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 K Gals	Liquid Sodium Hypochlorite		Free Cl ₂ Residual mg/l	Lime Sodium Hydroxide	Totalizer	
		Gallons	Cl ₂ use per 24hrs				
1	0						
2	0						
3	0	80	0	NR	NR	1375117	
4	0	80	0	NR	NR	1375117	
5	0	80	0	NR	NR	1375117	
6	1,338	54	26	0.97	6.2	1376455	
7	1,387	33+117	21	0.012	6.1	1377842	
8	0						
9	0						
10	3,904	90	60	0.1	6.2	1381746	
11	1,352	69	11	0.01	6.1	1383098	
12	1,358	45	24	0.1	6.2	1384456	
13	1,318	33+117	12	0.02	6.2	1385774	
14	1,383	123	27	0.15	6.2	1387157	
15	0						
16	0						
17	3,811	69+81	53	0.02	6.2	1390968	
18	1,352	126	24	0.12	6.2	1392320	
19	1,345	108	18	0.12	6.2	1393665	
20	1,372	87	25	0.5	6.2	1395037	
21	1,309	66+84	19	0.12	6.2	1396346	
22	0						
23	0						
24	3,400	99	51	0.18	6.1	1399746	
25	1,111	81	18	0.08	6.2	1400857	
26	1,010	66+63	15	0.02	6.2	1401867	
27	771	117	12	0.08	6.2	1402638	
28	1,194	102+35	15	0.018	6.2	1403832	
29	0						
30	0						
31	3,121	90	47	0.26	6.1	1406953	
TOT	31,836		478				
AVG.	1026.97		15.42	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

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: J. K. Starr

Date: 6-8-04

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: MAY 2004
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LOCATION: WELL NO. 10

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 769432
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl ₂ Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl ₂ use per 24hrs				
1	0						
2	0						
3	0	38	0	NR	NR	769432	
4	0	38	0	NR	NR	769432	
5	0	38	0	NR	NR	769432	
6	0	38	0	NR	NR	769432	
7	0	38	0	NR	NR	769432	
8	0						
9	0						
10	0	38	0	NR	NR	769432	
11	0	38	0	NR	NR	769432	
12	0	38	0	NR	NR	769432	
13	0	38	0	NR	NR	769432	
14	0	38	0	NR	NR	769432	
15	0						
16	0						
17	0	38	0	NR	NR	769432	
18	0	38	0	NR	NR	769432	
19	0	38	0	NR	NR	769432	
20	0	38	0	NR	NR	769432	
21	0	38	0	NR	NR	769432	
22	0						
23	0						
24	0	38	0	NR	NR	769432	
25	0	38	0	NR	NR	769432	
26	0	38	0	NR	NR	769432	
27	0	38	0	NR	NR	769432	
28	0	38	0	NR	NR	769432	
29	0						
30	0						
31	0	38	0	NR	NR	769432	
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 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: J. C. Ross

Date: 6-5-04

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: MAY	2004
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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 Cl2 Residual	Lime		
		Gallons	Cl2 use per 24hrs		Sodium Hydroxide		
	K Gals	135		mg/l			593771
1	0						
2	0						
3	4.266	78	57	1.04	6.5		598037
4	1.341	57	21	0.72	6.5		599378
5	1.180	42	15	NR	NR		600558
6	2	42	0	NR	NR		600560
7	0	42	0	NR	NR		600560
8	0						
9	0						
10	0	42	0	NR	NR		600560
11	0	42	0	0.64	7.1		600560
12	3	42	0	NR	NR		600563
13	275	19+48	3	0.73	7.2		600838
14	185	84	3	NR	NR		601023
15	0						
16	0						
17	257	81+42	3	NR	NR		601280
18	3	123	0	0.2	6.7		601283
19	0	123	0	NR	NR		601283
20	57	123	0	0.71	7.4		601340
21	0	120	3	NR	NR		601340
22	0						
23	0						
24	0	120	0	NR	NR		601340
25	0	120	0	NR	NR		601340
26	5	120	0	NR	NR		601346
27	0	120	0	NR	NR		601346
28	0	120	0	NR	NR		601346
29	0						
30	0						
31	0	120	0	NR	NR		601346
TOT	7.575		105				
AVG	244.35		3.39	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: *Ed Hair*

Date: 6-5-04

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: MAY

2004

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 Residual mg/l	Lime Sodium Hydroxide	Totalizer	
		Gallons	Cl ₂ use per 24hrs				
1	0						
2	0						
3	0	144	2	NR	NR	683909	
4	0	144	0	NR	NR	683909	
5	0	144	0	NR	NR	683909	
6	0	144	0	NR	NR	683909	
7	0	144	0	NR	NR	683909	
8	0						
9	0						
10	0	144	0	NR	NR	683909	
11	0	144	0	0.51	7.2	683909	
12	2	144	0	NR	NR	683911	
13	68	144	0	0.8	7.3	683979	
14	0	144	0	NR	NR	683979	
15	0						
16	0						
17	73	144	0	NR	NR	684052	
18	3	144	0	0.43	6.5	684055	
19	0	144	0	NR	NR	684055	
20	305	144	0	0.66	7.5	684360	
21	0	135	9	NR	NR	684360	
22	0						
23	0						
24	0	135	0	NR	NR	684360	
25	32	135	0	0.35	7	684392	
26	5	135	0	NR	NR	684397	
27	0	135	0	NR	NR	684397	
28	0	135	0	NR	NR	684397	
29	0						
30	0						
31	0	135	0	NR	NR	684397	
TOT	488		11				
AVG	15.74		0.35	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: J. L. Hawk

Date: 6-5-04

Title: Water Systems Supervisor

Certification No. NY0031941

6/8/2004
Pump Data

MONTHLY GALLONAGE REPORT
MAY2004.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	0	0	0	4,266	0	4,266
4	0	0	0	0	1,341	0	1,341
5	0	0	0	0	1,180	0	1,180
6	0	301	1,338	0	2	0	1,641
7	0	243	1,387	0	0	0	1,630
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	823	3,904	0	0	0	4,727
11	0	249	1,352	0	0	0	1,601
12	0	270	1,358	0	3	2	1,633
13	0	474	1,318	0	275	68	2,135
14	0	355	1,383	0	185	0	1,923
15	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0
17	0	959	3,811	0	257	73	5,100
18	0	359	1,352	0	3	3	1,717
19	0	403	1,345	0	0	0	1,748
20	0	444	1,372	0	57	305	2,178
21	0	355	1,309	0	0	0	1,664
22	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0
24	0	1,229	3,400	0	0	0	4,629
25	0	506	1,111	0	0	32	1,649
26	0	350	1,010	0	6	5	1,371
27	0	324	771	0	0	0	1,095
28	0	328	1,194	0	0	0	1,522
29	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0
31	0	987	3,121	0	0	0	4,108
Total	0	8,959	31,836	0	7,575	488	48,858
		Totalizer	Totalizer		Totalizer	Total(x1,000)	
		This Month	Last Month		Gallons		
	Well 4	1,648,622	1,648,622			0	
	Well 6	445,155	436,196			8,959	
	Well 7	1,406,953	1,375,117			31,836	
	Well 10	769,432	769,432			0	
	Well 11	601,346	593,771			7,575	
	Well 12	684,397	683,909			488	
AGS Water Supply Meter		504,226	500,954			3272.00	
Medical Reactor - Well 105			0			0.00	
Biology Building - Well 9		6,792,770	6,792,770			0.00	

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040, FAX: (631) 421-8438 NYSDOH ID # 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID : 5111891

Collected : 5/7/04 11:20:00 AM

Received : 5/7/04 3:00:00 PM

Collected By : CLIENT

Copy : Original

CC

Lab No. : 0405274-001A

Client ID. : 17811-001

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Point No : 094-273

Location : B-49 Water Tower

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	05/08/2004 10:30 AM
E_Coliform	Absent		Absent	M9223	05/08/2004 10:30 AM
Total Residual Chlorine	1.0	mg/L		M4500-Cl G	05/07/2004

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

Date Reported : 5/12/04

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

Lab No. : 0405274-002A

Sample Information...

70 Bell Ave.

Type : Potable Water

Upton, NY 11973

Origin : Distribution

Attn To : S. Scarpitta

Routine

Federal ID 5111891

Client ID. : 17811-001

Collected : 5/7/04 10:45:00 AM

Point No : 076-408

Received : 5/7/04 3:00:00 PM

Location : B-640 Water Tower

Collected By : CLIENT

Copy : Original

CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	05/08/2004 10:30 AM
E_Coliform	Absent		Absent	M9223	05/08/2004 10:30 AM
Total Residual Chlorine	1.0	mg/L		M4500-Cl G	05/07/2004

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

Date Reported 5/12/04

H2M LABS, INC.

575 Broad Hollow Road, Melville, NY 11747
(631) 694-3040, FAX: (631) 420-9436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : 0405274-003A

Sample Information...

Type : Potable Water
Origin : Distribution
Routine

Federal ID : 5111891

Client ID. : 17811-00:

Collected : 5/7/04 9:45:00 AM

Point No : 109-19

Received : 5/7/04 3:00:00 PM

Location : B-363 Apt.Laundry

Collected By : CLIENT

Copy : Original

CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	05/08/2004 10:30 AM
E_Coliform	Absent		Absent	M9223	05/08/2004 10:30 AM
Total Residual Chlorine	0.8	mg/L		M4500-Cl G	05/07/2004

Result(s) reported meet(s) Regulatory Limit(s)
Result(s) flagged with * Exceed Regulatory Limit(s) Limit noted

Date Reported : 5/12/04

Jean M. Slavin

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 : S. Scarpitta

Federal ID 5111891

Collected : 5/7/04 10:20:00 AM

Received : 5/7/04 3:00:00 PM

Collected By : CLIENT

Copy : Original

CC

Lab No. : 0405274-004A

Client ID. : 17811-004

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Point No : 045-12

Location : B-1005 RHIC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	05/08/2004 10:30 AM
E_Coliform	Absent		Absent	M9223	05/08/2004 10:30 AM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	05/07/2004

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

Date Reported : 5/12/04

Joanna M. Slavina

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
 (631) 694-3040, FAX: (631) 421-8436 NYSDOHID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.
 Upton, NY 11973
 Attn To : S. Scarpitta

Lab No. : 0405274-005A

Sample Information...

Type : Potable Water
 Origin : Distribution
 Routine

Federal ID 5111891

Client ID. : 17811-005

Collected : 5/7/04 9:30:00 AM

Point No : 054-187

Received : 5/7/04 3:00:00 PM

Location : B-930 LINAC

Collected By : CLIENT

Copy : Original

CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	05/08/2004 10:30 AM
E_Coliform	Absent		Absent	M9223	05/08/2004 10:30 AM
Total Residual Chlorine	0.9	mg/L		M4500-Cl G	05/07/2004

Result(s) reported meet(s) Regulatory Limit(s)
 Result(s) flagged with # Exceed Regulatory Limit(s). Limit noted.

Date Reported : 5/12/04

Jean M. Slavina

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(516) 694-3040 FAX: (516) 421-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected : 5/7/04 1:00:00 PM

Received : 5/7/04 3:00:00 PM

Collected By : CLIENT

Copy : Original

CC

Lab No. : 0405274-006A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Client ID. : 17811-003

Point No : 084-70

Location : B-490 Outpatient Clinic

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	05/08/2004 10:30 AM
E_Coliform	Absent		Absent	M9223	05/08/2004 10:30 AM
Total Residual Chlorine	1.0	mg/L		M4500-Cl G	05/07/2004

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

Date Reported : 5/12/04

Joann M. Slavin

H2M LABS, INC.575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 423-8436 NYSDOH ID# 10478LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected : 5/7/04 1:10:00 PM

Received : 5/7/04 3:00:00 PM

Collected By : CLIENT

Copy : Original

CC

Lab No. : 0405274-007A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Client ID. : 17811-017

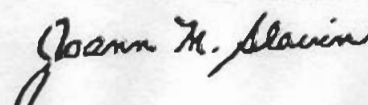
Point No : 084-67

Location : B-490 Block 11

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	05/08/2004 10:30 AM
E_Coliform	Absent		Absent	M9223	05/08/2004 10:30 AM
Total Residual Chlorine	1.0	mg/L		M4500-Cl G	05/07/2004

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

Date Reported : 5/12/04



H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 894-3040, FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected : 5/7/04 9:30:00 AM

Received : 5/7/04 3:00:00 PM

Collected By : CLIENT

Copy : Original

CC

Lab No. : 0405274-008A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Client ID. : 17811-068

Point No : 054-187

Location : B-930 LINAC - Duplicate

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	05/08/2004 10:30 AM
E_Coliform	Absent		Absent	M9223	05/08/2004 10:30 AM
Total Residual Chlorine	0.9	mg/L		M4500-Cl G	05/07/2004

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

Date Reported : 5/12/04

Joanna M. Slavin

ATTACHMENT II
Brookhaven National Laboratory
Potable Water Supply
May 2004 Biweekly Water Quality Monitoring Data
for the BNL Distribution System and Potable Water Wells

Attachment II
Table 1 - Summary of Water Quality Analyses
for the BNL Potable Water System
May 2004

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (µmhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	5/4/04	6.5	56	137	ANR	ANR
WTP	5/6/04	7.4	54	233	ANR	ANR
WTP	5/11/04	7.3	55	179	ANR	ANR
WTP	5/13/04	7.3	58	146	ANR	ANR
WTP	5/18/04	7.6	55	139	ANR	ANR
WTP	5/20/04	7.6	55	184	ANR	ANR
WTP	5/25/04	7.5	57	136	ANR	ANR
WTP	5/27/04	7.6	57	134	ANR	ANR
Well #11	5/4/04	6.6	55	173	ANR	ANR
Well #11	5/6/04	NR	NR	NR	ANR	ANR
Well #11	5/11/04	7.1	55	212	ANR	ANR
Well #11	5/13/04	7.2	55	180	ANR	ANR
Well #11	5/18/04	6.7	55	158	ANR	ANR
Well #11	5/20/04	7.2	55	165	ANR	ANR
Well #11	5/25/04	6.0	54	180	ANR	ANR
Well #11	5/27/04	NR	NR	NR	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

May 2004 Stage 1 Disinfectants & Disinfection Byproduct Rule

Monitoring Data for the BNL Distribution System

Attachment III

May 2004 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data
 Table II - Maximum Residual Disinfectant Level (MRDL) Compliance

Location	Total Residual Chlorine (mg/L)											
	June 03	July 03	Aug. 03	Sept. 03	Oct. 03	Nov. 03	Dec. 03	Jan. 04	Feb. 04	Mar. 04	Apr. 04	May 04
Bldg. 49 Water Tower	0.9	1.2	0.9	1.4	0.9	0.9	0.9	0.8	0.7	1.1	1.0	1.0
Bldg. 640 Water Tower	0.5	0.8	0.9	0.9	0.5	0.9	0.8	0.9	0.6	1.1	0.6	1.0
Bldg. 363 Apt. Laundry	0.4	0.5	1.0	0.8	0.6	0.5	0.9	0.4	0.5	0.9	0.3	0.8
Bldg. 1005 RHIC	0.6	1.1	1.0	0.8	0.6	0.6	1.0	0.4	0.7	0.5	0.4	0.6
Bldg. 930 LINAC	NS	1.1	NS	1.3	NS	0.9	NS	0.8	NS	1.1	NS	0.9
Bldg. 725 NSLS	0.9	NS	1.1	NS	0.7	NS	0.6	NS	0.5	NS	1.7	NS
Bldg. 490 Outpatient Clinic	NS	1.1	NS	1.3	NS	0.6	NS	0.8	NS	1.0	NS	1.0
Bldg. 490 Block 11	NS	0.7	NS	1.2	NS	0.4	NS	0.8	NS	1.0	NS	1.0
Bldg. 490 Block 1 ACF	0.4	NS	0.9	NS	0.7	NS	0.8	NS	0.5	NS	1.0	NS
Bldg. 490 Block 4 MRC	0.5	NS	1.1	NS	0.7	NS	1.0	NS	0.5	NS	1.1	NS
Monthly Average	0.6	0.9	1.0	1.1	0.7	0.7	0.9	0.7	0.6	1.0	0.9	0.9

NS- Not Scheduled for sampling

Running Annual Average (mg/L) 0.8 (Total Residual Chlorine)
 MRDL (mg/L) 4.0

