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BROOKHAVEN
NATIONAL LABORATORY

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

www.bnl.gov

June 8, 2001

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

Dear Ms. Newcomer:

SUBJECT: Monthly Water Treatment Plant Reports

Reference: Suffolk County Minimum Monitoring Requirements for May 2001

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2001 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 Bacteriological and Operational Reports for May 2001.
- Attachment II: May 2001 Biweekly Water Quality Monitoring Data for BNL Potable Water Wells and BNL Distribution System.
- Attachment III: 2001 Second Quarter Radiological Report for the BNL Potable Water Wells.

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 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.

June 8, 2001

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

Sincerely,

Lori Cunniff

Lori Cunniff, CEP
Division Manager



LEC/MA:rt

Attachments: As noted

cc:	M. Allocco	w/attachments
	W. Chaloupka	w/attachments
	J. Granzen	w/attachments
	R. Lee	w/attachments
	E. Murphy	w/attachments
	P. Ponturo	SCDHS, w/o attachments
	L. Ross	w/o attachments
	T. Sheridan	w/o attachments

EC61ER.01

ATTACHMENT I

**Brookhaven National Laboratory
Potable Water Supply**

**Monthly Bacteriological and Operational
Reports for May 2001**

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MAY	2001
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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 12262972
	Treated Water	Liquid Sodium Hypochlorite Gallons	Free Cl ₂ Residual	Free Cl ₂ Residual	Lime Sodium	Totalizer Daily Totalizer	
	K Gals	per 24hrs	mg/l	Hydroxide			
1	1,428	100/10	10	0.65	7.5	12264400	
2	1,300	90+95/10	10	0.65	7.6	12265700	
3	1,402	165/10	20	0.65	7.5	12267102	
4	1,405	155/10	10	0.5	7.5	12268507	
5	0						
6	0						
7	753	151/10	4	0.8	7.8	12269260	
8	840	148/10	3	0.8	7.8	12270100	
9	875	140/10	8	0.7	7.8	12270975	
10	975	133/10	7	0.7	7.8	12271950	
11	1,103	125/10	8	0.8	7.9	12273053	
12	0						
13	0						
14	4,358	99/10	26	0.8	8	12277411	
15	1,035	90/10	9	0.7	8.1	12278446	
16	1,106	80/10	10	0.7	7.8	12279552	
17	923	72/10	8	0.7	7.9	12280475	
18	1,072	60/10	12	0.5	7.8	12281547	
19	0						
20	0						
21	3,037	29+151	31	0.7	7.8	12284584	
22	1,268	170	10	0.6	7.9	12285852	
23	1,344	160	10	0.6	7.9	12287196	
24	1,445	148	12	0.7	8	12288641	
25	1,447	135	13	0.6	8	12290088	
26	0						
27	0						
28	4,237	105	30	0.6	7.9	12294325	
29	1,424	92	13	0.7	8	12295749	
30	1,429	80+120	12	0.61	8	12297178	
31	1,458	188	12	0.7	8.1	12298636	
TOT	35,664		288				
AVG.	1150.45		9.29	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 4

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.C. Hooper*

Date: 6-5-01

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 2001
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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 - 1479844
	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	130	0	0	0	1479844	
2	0	130	0	0	0	1479844	
3	0	130	0	0	0	1479844	
4	0	130	0	0	0	1479844	
5	0						
6	0						
7	0	130	0	NR	NR	1479844	
8	0	130	0	NR	NR	1479844	
9	0	130	0	NR	NR	1479844	
10	0	130	0	NR	NR	1479844	
11	0	130	0	NR	NR	1479844	
12	0						
13	0						
14	0	130	0	NR	NR	1479844	
15	0	130	0	NR	NR	1479844	
16	0	130	0	NR	NR	1479844	
17	0	130	0	NR	NR	1479844	
18	0	130	0	NR	NR	1479844	
19	0						
20	0						
21	0	130	0	NR	NR	1479844	
22	0	130	0	NR	NR	1479844	
23	0	130	0	NR	NR	1479844	
24	0	130	0	NR	NR	1479844	
25	0	130	0	NR	NR	1479844	
26	0						
27	0						
28	0	130	0	NR	NR	1479844	
29	0	130	0	NR	NR	1479844	
30	0	130	0	NR	NR	1479844	
31	0	130	0	NR	NR	1479844	
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. O. [Signature]

Date: 6-5-01

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

2001

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		Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite		Free Cl2 Residual	Lime Sodium Hydroxide	Totalizer	
		K Gals	Gallons				
1	597	175	5	0.95	6	142872	
2	658	170	5	0.66	6.1	143530	
3	625	165+35	5	0.03	6	144155	
4	691	190	10	0.03	6	144846	
5	0						
6	0						
7	249	190	0	0.2	5.9	145095	
8	515	187	3	0.2	6	145610	
9	358	180	7	0.1	6	145968	
10	486	180	0	0.2	6	146454	
11	548	175	5	0.2	6	147002	
12	0						
13	0						
14	1,710	153	22	0.2	6	148712	
15	468	147	6	0.1	6	149180	
16	590	138	9	0.1	6	149770	
17	796	125+35	13	0.1	6	150566	
18	698	148	12	0.1	6	151264	
19	0						
20	0						
21	1,301	127	21	0.1	6	152565	
22	598	119	8	0.3	6	153163	
23	719	108	11	0.6	6	153882	
24	592	98	10	0.4	6	154474	
25	558	90	8	0.3	6	155032	
26	0						
27	0						
28	1,696	65	25	0.04	6	156728	
29	724	52	13	0.81	6.4	157452	
30	659	48+100	4	0.02	6.1	158111	
31	691	130	18	0.18	6.5	158802	
TOT	16,527		220				
AVG.	533.13		7.10	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 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.P. Rose

Date: 6-5-01

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 2001
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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	1,270	100	22	0.95	6	463676	
2	1,129	82	18	0.66	6.1	464805	
3	1,212	60+140	22	0.03	6.1	466017	
4	1,127	181	19	0.03	6	467144	
5	0						
6	0						
7	748	170	11	0.2	5.9	467892	
8	812	170	0	0.2	6	468704	
9	745	160	10	0.1	6	469449	
10	863	140	15	0.2	6	470312	
11	905	135	5	0.2	6	471217	
12	0						
13	0						
14	3,889	99	36	0.2	6	475106	
15	901	90	9	0.1	6	476007	
16	1,053	82	8	0.1	6	477060	
17	623	80+120	2	0.1	6	477683	
18	1,141	186	14	0.1	6	478824	
19	0						
20	0						
21	2,685	168	18	0.1	6	481509	
22	1,044	159	9	0.3	6	482553	
23	1,257	148	11	0.6	6	483810	
24	1,344	139	9	0.4	6	485154	
25	1,298	128	11	0.3	6	486452	
26	0						
27	0						
28	3,786	105	23	0.04	6	490238	
29	1,203	95	10	0.81	6.4	491441	
30	1,137	88+82	7	0.02	6.1	492578	
31	1,204	149	13	0.18	6.5	493782	
TOT	31,376		302				
AVG.	1012.13		9.74	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: *S. J. [Signature]*

Date: 6-5-01

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 2001
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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 764045
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide	Totalizer 764045	
		Gallons	Cl2 use per 24hrs				
1	0	58	0	NR	NR	764045	
2	0	58	0	NR	NR	764045	
3	0	58	0	NR	NR	764045	
4	0	58	0	NR	NR	764045	
5	0						
6	0						
7	0	58	NR	NR	NR	764045	
8	0	58	NR	NR	NR	764045	
9	0	58	NR	NR	NR	764045	
10	0	58	NR	NR	NR	764045	
11	0	58	NR	NR	NR	764045	
12	0						
13	0						
14	0	58	0	NR	NR	764045	
15	0	58	0	NR	NR	764045	
16	0	58	0	NR	NR	764045	
17	0	58	0	NR	NR	764045	
18	0	58	0	NR	NR	764045	
19	0						
20	0						
21	0	58	0	NR	NR	764045	
22	0	58	0	NR	NR	764045	
23	0	58	0	NR	NR	764045	
24	0	58	0	NR	NR	764045	
25	0	58	0	NR	NR	764045	
26	0						
27	0						
28	0	58	0	NR	NR	764045	
29	0	58	0	NR	NR	764045	
30	0	58	0	NR	NR	764045	
31	0	58	0	NR	NR	764045	
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: 6-5-01

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

2001

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 Sodium Hydroxide	Totalizer	
		Gallons	Cl2 use per 24hrs				
1	0	190	0	0.59	6.7	335101	
2	0	190	0	0.57	6.7	335101	
3	0	190	0	0.63	6.5	335101	
4	0	190	0	NR	NR	335101	
5	0						
6	0						
7	2,901	155	35	1.8	7.2	338002	
8	0	153	2	0.7	7.4	338002	
9	4	153	0	NR	NR	338006	
10	5	152	1	0.4	6.8	338011	
11	369	152	0	NR	NR	338380	
12	0						
13	0						
14	2,556	130	22	1	6.5	340936	
15	118	128	2	1	6.3	341054	
16	5	128	0	0.1	6.5	341059	
17	2	128	0	0.5	6.6	341061	
18	3	128	0	0.4	6.6	341064	
19	0						
20	0						
21	62	128	0	NR	NR	341126	
22	0	128	0	0.6	7	341126	
23	7	128	0	NR	NR	341133	
24	214	125	3	0.3	7.3	341347	
25	7	124	1	0.5	7.4	341354	
26	0						
27	0						
28	132	122	2	0.65	7.4	341486	
29	183	122	0	NR	NR	341669	
30	224	122	0	NR	NR	341893	
31	164	122	0	0.4	7.8	342057	
TOT	6,956		68				
AVG.	224.39		2.19	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: Jo Ross

Date: 6-5-01

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 2001
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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 Residual mg/l	Lime Sodium Hydroxide	Totalizer	
		Gallons	Cl ₂ use per 24hrs				
		141					294093
1	276	138	3	0.59	7		294369
2	2	138	0	0.77	7.3		294371
3	218	135	3	0.52	7.6		294589
4	51	133	2	0.56	7		294640
5	0						
6	0						
7	144	132	1	1	7.4		294784
8	0	132	0	0.7	7.5		294784
9	5	132	0	0.4	7.2		294789
10	3	132	0	0.4	7.1		294792
11	1	132	0	NR	NR		294793
12	0						
13	0						
14	0	132	0	0.9	7.1		294793
15	6	131	1	0.7	7		294799
16	1	131	0	0.5	7		294800
17	1	131	0	0.4	7		294801
18	2	131	0	0.4	7		294803
19	0						
20	0						
21	0	131	0	0.4	7.2		294803
22	11	131	0	0.4	7.3		294814
23	12	131	0	NR	NR		294826
24	0	131	0	0.5	7.1		294826
25	9	131	0	0.5	7.2		294835
26	0						
27	0						
28	3	131	0	0.5	7.6		294838
29	0	131	0	NR	NR		294838
30	0	131	0	NR	NR		294838
31	0	131	0	0.5	7.8		294838
TOT	745		10				
AVG.	24.03		0.32	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. Jones

Date: 6-5-01

Title: Water Systems Supervisor

Certification No. NY0031941

5/31/01

MONTHLY GALLONAGE REPORT

Pump Data

2001may

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total
1	0	597	1,270	0	0	276	2,143
2	0	658	1,129	0	0	2	1,789
3	0	625	1,212	0	0	218	2,055
4	0	691	1,127	0	0	51	1,869
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	249	748	0	2,901	144	4,042
8	0	515	812	0	0	0	1,327
9	0	358	745	0	4	5	1,112
10	0	486	863	0	5	3	1,357
11	0	548	905	0	369	1	1,823
12	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0
14	0	1,710	3,889	0	2,556	0	8,155
15	0	468	901	0	118	6	1,493
16	0	590	1,053	0	5	1	1,649
17	0	796	623	0	2	1	1,422
18	0	698	1,141	0	3	2	1,844
19	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
21	0	1,301	2,685	0	62	0	4,048
22	0	598	1,044	0	0	11	1,653
23	0	719	1,257	0	7	12	1,995
24	0	592	1,344	0	214	0	2,150
25	0	558	1,298	0	7	9	1,872
26	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0
28	0	1,696	3,786	0	132	3	5,617
29	0	724	1,203	0	183	0	2,110
30	0	659	1,137	0	224	0	2,020
31	0	691	1,204	0	164	0	2,059
Total	0	16,527	31,376	0	6,956	745	55,604
		Totalizer	Totalizer	Totalizer	Totalizer	Total(x1,000)	
		This Month	Last Month			Gallons	
	Well 4	1,479,844	1,479,844			0	
	Well 6	158,802	142,275			16,527	
	Well 7	493,782	462,406			31,376	
	Well 10	764,045	764,045			0	
	Well 11	342,057	335,101			6,956	
	Well 12	294,838	294,093			745	
AGS Water Supply Meter		245,234	233,426			11808.00	
Medical Reactor - Well 105		91,673,320	91,498,830			174.49	
Biology Building - Well 9		6,080,640	6,000,170			80.47	

CELL #	#1	#2	#3	#4	#5	#6	#7	#8	TOTAL B'WASH
DATE									
1	OOS	0	0	0	0	0	1	0	1
2	OOS	0	0	0	0	0	0	1	1
3	OOS	0	0	0	0	0	0	0	0
4	OOS	0	0	0	0	0	0	0	0
5									0
6									0
7	OOS	0	0	0	0	0	0	0	0
8	OOS	0	1	1	0	1	0	0	3
9	OOS	0	0	0	0	0	0	0	0
10	OOS	0	0	0	0	0	0	0	0
11	OOS	0	0	0	1	0	0	0	1
12									0
13									0
14	OOS	0	0	0	0	0	0	0	0
15	OOS	0	0	0	0	0	0	0	0
16	OOS	1	0	0	0	0	1	1	3
17	OOS	0	1	1	1	1	0	0	4
18	OOS	0	0	0	0	0	0	0	0
19									0
20									0
21	OOS	0	0	0	0	0	1	0	1
22	OOS	0	0	0	0	0	0	0	0
23	OOS	0	1	1	0	1	1	1	5
24	OOS	0	0	0	0	0	0	0	0
25	OOS	0	0	0	0	0	0	0	0
26									0
27									0
28	OOS	0	0	0	1	0	0	0	1
29	OOS	1	0	0	0	0	0	0	1
30	OOS	0	0	0	0	0	0	0	0
31	OOS	0	0	0	0	0	0	0	0
TOTAL	0	2	3	3	3	3	4	3	21
TOTAL BACKWASHES	21								
Gallons per Backwash	40,000								
Total Backwash Gallons	840 (x1000Gallons)								
Readings are recorded at 0800 Hours and Totalizers are reset									

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 : BOB LEE

Lab No. : 0105108-001A

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

Federal ID : 5111891

Client ID. : 7847-001

Collected : 5/3/01 8:20:00 AM

Point No: 1

Received : 5/3/01 3:35:00 PM

Location: B-49 WATER TOWER

Collected By JK00

Copies To : TONY ROSS

<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	5/3/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	5/3/01 4:15:00 PM
Total Residual Chlorine	0.8	mg/L		M4500-Cl G	5/3/01

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

H2M LABS, INC.575 Broad Hollow Road, Melville NY 11747
(516) 694-3040 . FAX: (516) 420-8435 NYS DOH ID#10478LABORATORY RESULTS

BROOKHAVEN NATIONAL LAB.-BNLM

70 BELL AVE.

UPTON, NY 11973

Attn To : BOB LEE

Lab No. : 0105108-002A

Sample Information...

Type : Potable Water

Origin: Dist.

Federal ID : 5111891

Client ID. : 7847-002

Collected : 5/3/01 8:40:00 AM

Point No: 2

Received : 5/3/01 3:35:00 PM

Location: B-640 WATER TOWER

Collected By JK00

Copies To : TONY ROSS

<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	5/3/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	5/3/01 4:15:00 PM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	5/3/01

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

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. : 0105108-003A

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

BROOKHAVEN NATIONAL LAB.-BNLM
70 BELL AVE.
UPTON, NY 11973
Attn To : BOB LEE

Federal ID : 5111891

Client ID. : 7847-003

Collected : 5/3/01 9:15:00 AM

Point No: 3

Received : 5/3/01 3:35:00 PM

Location: B-1005 RHIC

Collected By JK00

Copies To : TONY ROSS

<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	5/3/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	5/3/01 4:15:00 PM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	5/3/01

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

Joann M. Slavicek

H2M LABS, INC.575 Broad Hollow Road, Melville NY 11747
(531) 694-3040. FAX: (531) 420-8436 NYSDOH ID# 10478LABORATORY RESULTS

BROOKHAVEN NATIONAL LAB.-BNLM

70 BELL AVE.

UPTON, NY 11973

Attn To : BOB LEE

Lab No. : 0105108-004A

Sample Information...

Type : Potable Water

Origin: Dist.

Federal ID : 5111891

Client ID. : 7847-004

Collected : 5/3/01 9:00:00 AM

Point No: 4

Received : 5/3/01 3:35:00 PM

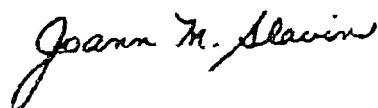
Location: B-363 APT, LAUNDRY

Collected By JK00

Copies To : TONY ROSS

<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	5/3/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	5/3/01 4:15:00 PM
Total Residual Chlorine	0.4	mg/L		M4500-Cl G	5/3/01

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



H2M LABS, INC.

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

LABORATORY RESULTS

BROOKHAVEN NATIONAL LAB., BNLM
70 BELL AVE.
UPTON, NY 11973
Attn To : BOB LEE

Lab No. : 0105108-005A

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

Federal ID : 5111891

Client ID. : 7847-005

Collected : 5/3/01 9:30:00 AM

Point No: 5

Received : 5/3/01 3:35:00 PM

Location: B-930 LINAC

Collected By JK00

Copies To : TONY ROSS

<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	5/3/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	5/3/01 4:15:00 PM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	5/3/01

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

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 : BOB LEE

Lab No. : 0105108-006A

Sample Information...

Type : Potable Water

Origin: Dist.

Federal ID : 5111891

Client ID. : 7847-006

Collected : 5/3/01 10:00:00 AM

Point No: 6

Received : 5/3/01 3:35:00 PM

Location: B-490 OUTPATIENT CLINIC

Collected By JK00

Copies To : TONY ROSS

<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	5/3/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	5/3/01 4:15:00 PM
Total Residual Chlorine	0.5	mg/L		M4500-Cl G	5/3/01

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

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 : BOB LEE

Lab No. : 0105108-007A

Sample Information...

Type : Potable Water

Origin: Dist.

Federal ID : 5111891

Client ID. : 7847-007

Collected : 5/3/01 10:15:00 AM

Point No: 7

Received : 5/3/01 3:35:00 PM

Location: B-490 BLOCK 11

Collected By JK00

Copies To : TONY ROSS

<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	5/3/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	5/3/01 4:15:00 PM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	5/3/01

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

ATTACHMENT II

**Brookhaven National Laboratory
Potable Water Supply**

**May 2001 Biweekly Water Quality Monitoring Data for
the BNL Potable Water Wells and
BNL Distribution System**

Attachment II
Table 1
Summary of Water Quality Analyses
for the BNL Potable Water System
May 2001

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (μ mhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	5/1/01	7.5	55	134	NR	NR
WTP	5/3/01	7.5	55	134	NR	NR
WTP	5/8/01	7.8	54	206	NR	NR
WTP	5/10/01	7.8	54	213	NR	NR
WTP	5/15/01	8.1	54	230	NR	NR
WTP	5/17/01	7.9	54	159	NR	NR
WTP	5/22/01	7.9	54	134	NR	NR
WTP	5/24/01	8.0	54	138	NR	NR
WTP	5/29/01	8.0	54	125	NR	NR
WTP	5/31/01	8.1	55	133	NR	NR
Well 11	5/1/01	6.7	55	181	NR	NR
Well 11	5/3/01	6.5	55	192	NR	NR
Well 11	5/8/01	7.4	54	160	NR	NR
Well 11	5/10/01	6.8	56	252	NR	NR
Well 11	5/15/01	6.3	55	208	NR	NR
Well 11	5/17/01	6.6	55	161	NR	NR
Well 11	5/22/01	7.0	55	161	NR	NR
Well 11	5/24/01	7.3	55	161	NR	NR
Well 11	5/29/01	7.8	55	188	NR	NR
Well 11	5/31/01	7.8	56	186	NR	NR
Well 12	5/1/01	7.0	56	157	NR	NR
Well 12	5/3/01	7.6	56	137	NR	NR
Well 12	5/8/01	7.5	54	125	NR	NR
Well 12	5/10/01	7.1	56	157	NR	NR
Well 12	5/15/01	7.0	56	180	NR	NR
Well 12	5/17/01	7.0	56	159	NR	NR
Well 12	5/22/01	7.3	56	160	NR	NR
Well 12	5/24/01	7.1	56	184	NR	NR
Well 12	5/29/01	7.8	55	199	NR	NR
Well 12	5/31/01	7.8	56	201	NR	NR

NR - Analysis Not Required or Not Reported

WTP - Water Treatment Plant

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**

**2001 Second Quarter Radiological Report for
the BNL Potable Water Wells**

ATTACHMENT III

Table 2

**Brookhaven National Laboratory
2001 Second Quarter Radiological Results
BNL Potable Water Wells**

Well ID	Gross Alpha pCi/L	Gross Beta pCi/L	Tritium pCi/L
Well #6	<0.78	<2.16	<313
Well #7	1.18	<2.16	<313
Well #7 (Duplicate)	<0.78	<2.16	<313
Well #11	<0.78	<2.16	<313
Well #12	<0.78	<2.16	<313

ASL C.O.C. No:
21042605

BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION

ERD COC No.: 8745

Contractor Number

ANALYTICAL SERVICES LABORATORY
BLDG 490
UPTON, N.Y. 11973-5000

Ship to: _____
Pick Up by: _____
Attention: _____

Page 1 of 1

Chain of Custody Information

Bioassay samples will not be accepted
if bottles are filled above the shoulder.

Project Name: Wells		E-Mail Reports to: B. Lee		SAMPLER: C. Ogeka		Priority Authorization	
Requested by: B. Lee		B. Lee		SAMPLER:		Group Leader or Higher CALL	
Life Number: 20222 X3148				SAMPLER:		x3630, x2502 (Rad), x4860 (Non-Rad)	
Account No.: 07089 Dept. Code: ES				SAMPLER:			

FILL OUT ONLY SHADED AREAS. CANNOT ACCEPT SAMPLES WITH ACTIVITY >1mR/hr

ASL Number	Sample Description				Container		Analysis Requested***								
	Date	Time	Matrix		#	vol.	αβ	3H	γ	Sr90	MET	WQ	VOA	PCB	pH
21042605-01	4/26/01	1340	W	Well 7			x	x	x	x					
21042605-02	4/26/01		W	Blind Duplicate - Well #7			x	x	x	x					
21042605-03	4/26/01	1350	W	Well 6			x	x	x	x					
21042605-04	4/26/01	1400	W	Well 11			x	x	x	x					
21042605-05	4/26/01	1410	W	Well 12			x	x	x	x					

Must be one of the samplers

Transferred to :	C. Ogeka	RA Brown		
Signed by:	C. Ogeka	RA Brown		
Date/time	4/26/01	1435	4/26/01	

***OTHER ANALYSIS NOT LISTED	COMMENTS
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