

BROOKHAVEN
NATIONAL LABORATORY

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November 8, 2002

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 October 2002

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2002 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 and Bacteriological Reports for October.
- Attachment II: October 2002 Biweekly Water Quality Monitoring Data for the BNL Potable Water Wells and the BNL Distribution System.
- Attachment III: Fourth Quarter Bacteriological Reports 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.

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, CEP
Division Manager



LC/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.02

ATTACHMENT I

**Brookhaven National Laboratory
Potable Water Supply**

**Monthly Operational and Bacteriological Reports for October 2002
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: **OCTOBER 2002**

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 K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mp/l	Lime Sodium Hydroxide	
		Gallons	Cl2 use per 24hrs			
1	812	150	5	1.2	7.4	12677696
2	860	141	9	1	7.2	12679368
3	867	130-70	11	0.98	7.1	12680235
4	814	190	10	0.89	7.5	12681049
5	0					
6	0					
7	8095	165	25	0.44	7.2	12683344
8	831	157	8	1.1	7.6	12684175
9	717	149	8	0.8	7.5	12684887
10	834	140	9	0.83	7.8	12685721
11	873	130	10	0.82	7.5	12686694
12	0					
13	0					
14	8437	100	30	0.69	7.6	12690131
15	855	90	10	0.65	7.7	12690986
16	873	75	15	0.87	7.8	12691959
17	850	65+135	10	1.11	7.7	12692909
18	888	190	10	0.86	7.7	12693797
19	0					
20	0					
21	8581	170	70	1.05	7.5	12696378
22	805	163	7	0.95	7.4	12697183
23	803	155	8	0.87	7.4	12697986
24	777	150	5	1.13	7.4	12698763
25	816	144	6	1.17	7.4	12699579
26	0					
27	0					
28	8552	120	24	0.94	7.3	12702131
29	889	115	5	0.93	7	12703120
30	896	105	10	0.81	7.1	12704016
31	865	95	10	1.1	7.1	12704981
Avg	890		8.55	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 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 or 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 hlturb) 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: 11-5-02

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11516100	SUFFOLK COUNTY	REPORTING PERIOD: OCTOBER 2002
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LOCATION: WELL NO. 4

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 1496449
	Treated Water	Liquid Sodium Hypochlorite Gallons	Free Cl ₂ use per 24hrs	Free Cl ₂ Residual mg/l	Lime Sodium Hydroxide	Totalizer	
	Gals						
1	237	100	12	1.6	5.8	1486630	
2	552	99	10	2.02	5.8	1487138	
3	548	85+65	5	2.02	5.7	1487686	
4	402	147	3	2.02	5.7	1488085	
5	0						
6	0						
7	1040	117	30	2.03	5.9	1489108	
8	518	110	7	2.02	5.8	1489446	
9	326	106	4	2.018	5.9	1489772	
10	376	99	7	2.06	5.1	1490148	
11	478	90+30	9	NR	NR	1490626	
12	0						
13	0						
14	1004	87	23	0.4	5.8	1491320	
15	495	70	3	0.4	5.8	1491825	
16	405	70	3	0.4	5.6	1492320	
17	459	63	2	0.19	5.9	1492799	
18	392	106	6	0.15	5.5	1493181	
19	0						
20	0						
21	1020	126	24	0.49	5.9	1495107	
22	417	107	4	0.63	5.9	1495824	
23	62	110	2	0.3	5.9	1496908	
24	11	117	0	0.66	5.9	1496121	
25	109	110	0	0.82	5.9	1496329	
26	0						
27	0						
28	1111	37	13	0.78	5.9	1497360	
29	673	31	6	0.37	5.5	1497938	
30	661	32	4	0.66	5.6	1498599	
31	479	46	6	1	5.6	1498738	
10/31	12,584		234				
AVG	396.24		7.54	1.21 (Avg)	5.81		

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 2 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 lower than required

Failure to analyze for chlorine if there was a positive result for total chlorine for routine samples or high turbidity sample

Failure to analyze residual samples

Does an MCL violation exist? YES NO

If yes, check reason's below

Two consecutive total chlorine test results that indicate a violation of the MCL

Positive chlorine residual lowest test result below chlorine residual MCL

Positive chlorine residual test result above chlorine residual MCL

Signature: [Signature]
 Title: Water Systems Supervisor

Date: 11-5-02
 Station ID: NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169

STATION 11515100

SUFFOLK COUNTY

REPORTING PERIOD: OCTOBER

2002

LOCATION: WELL NO. 6

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
	Treated Water K. Gals	Liquid Sodium Hypochlorite		Free Cl ₂ Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl ₂ use per 24hrs				
1	308	192	3	1.6	5.8	351941	
2	174	190	2	0.02	5.8	352115	
3	204	190	0	0.02	5.7	352319	
4	276	188	0	0.04	5.7	352555	
5	0						
6	0						
7	620	181	7	0.03	5.9	353175	
8	166	190	1	0.02	5.8	353341	
9	203	180	0	0.018	5.9	353544	
10	233	180	0	NR	NR	353777	
11	199	176	4	NR	NR	353975	
12	0						
13	0						
14	315	168	8	0.4	5.8	354790	
15	230	165	3	0.04	5.8	355070	
16	190	164	1	0.31	5.9	355250	
17	40	164	0	0.19	5.9	355290	
18	61	164	0	0.15	5.8	355351	
19	0						
20	0						
21	111	162	2	0.49	5.9	355742	
22	120	162	0	0.63	5.9	355862	
23	164	162	0	0.53	5.9	356126	
24	27	150.40	2	0.66	5.9	356163	
25	154	202	3	0.52	5.9	356317	
26	0						
27	0						
28	334	200	3	0.75	5.9	356651	
29	177	198	2	0.32	5.5	356828	
30	195	198	3	0.96	5.6	356933	
31	6307	198	0	1	5.6	356995	
Avg	112.02		1.19	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 turbid) 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.A. Ross*

Date: 11-5-02

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: OCTOBER 2002

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	Treated Water	CHLORINATION			pH		Totalizer Daily Totalizer
		Liquid Sodium Hypochlorite		Free Cl ₂ Residual	Lime Sodium Hydroxide	Totalizer	
		Gallons	Cl ₂ use per 25000				
1	895	118	22	1.6	5.8	89589	
2	796	100	18	0.02	5.3	890345	
3	813	99+110	10	0.02	5.7	891258	
4	800	190	10	0.04	5.7	892067	
5	0						
6	0						
7	2242	152	38	0.03	5.9	894309	
8	775	142	10	0.02	5.8	895084	
9	863	130	12	0.018	5.9	895947	
10	892	120	10	0.06	6.1	896639	
11	1252	100+100	20	0.06	5.9	897321	
12	0						
13	0						
14	8270	143	17	0.4	5.8	900821	
15	821	131	12	0.04	5.8	901730	
16	1128	117	18	0.31	5.9	902848	
17	1102	99	17	0.19	5.9	904008	
18	1251	83+95	17	0.15	5.8	905058	
19	0						
20	0						
21	861	120	20	0.40	5.9	907268	
22	826	110	14	0.63	5.9	908954	
23	89	98	12	0.53	5.9	909702	
24	892	12+115	16	0.66	5.9	910803	
25	898	187	14	0.62	5.9	911532	
26	0						
27	0						
28	1062	133	14	0.78	5.9	914494	
29	1273	110	23	0.42	5.5	915707	
30	127	97	14	0.56	5.6	916770	
31	1273	76	17	1	5.6	917967	
31	1273		17				
31	1273		17		5.1		

Population Served 3,500

Number of routine samples 4

Must collect a minimum of 8 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 reasons below

Actual number of samples lower than required

Failure to analyze for chlorine and there was a positive result for

total chlorine from routine repeat chlorine laboratory sample

Failure to analyze repeat samples

Does an MCL violation exist? YES NO

If yes, check reasons below

Two or more positive total chlorine samples for system code 169 or

8 more samples greater than or equal to total chlorine

Excessive chlorine and followed by a positive total chlorine repeat sample

Positive chlorine result followed by a positive chlorine repeat sample

Signature: [Signature]
 Title: Water Systems Supervisor

Date: 11-5-02
 Station: NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD: OCTOBER 2002

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 disinfection waiver? YES NO

Date	Treated Water	CHLORINATION		Free Cl ₂ Residual	pH		Totalizer
		Liquid Sodium Hypochlorite	Cl ₂ use		Limb Sodium Hydroxide	Daily Totalizer	
Time	Gal	Gallons	per 24hrs	mg/l			
1	158	190	0	0.09	7.3		460630
2	2	190	0	NR	NR		460632
3	0	190	0	0.17	7.0		460633
4	0	190	0	NR	NR		460632
5	0						
6	1579	190	0	0.3	8.4		462211
7	50	190	0	0.25	8.2		462261
8	0	190	0	0.58	7.9		462261
9	0	190	0	0.56	7.5		462261
10	0	190	0	NR	NR		462261
11	0						
12	0						
13	647	190	0	0.4	7		462408
14	4	190	0	0.02	7.3		462412
15	0	190	0	NR	NR		462412
16	0	190	0	0.10	7.5		462412
17	0	190	0	0.4	7.4		462412
18	0						
19	0	190	0	0.07	7.9		462412
20	0	190	0	0.04	8.7		462412
21	0	190	0	NR	NR		462412
22	0	190	0	NR	NR		462412
23	0	190	0	NR	NR		462412
24	0	190	0	NR	NR		462412
25	0	190	0	NR	NR		462412
26	0	190	0	NR	NR		462412
27	0	190	0	NR	NR		462412
28	0	190	0	NR	NR		462412
29	0	190	0	NR	NR		462412
30	0	190	0	NR	NR		462412
31	0	190	0	NR	NR		462412
32	0	190	0	NR	NR		462412
33	0	190	0	NR	NR		462412
34	0	190	0	NR	NR		462412
35	0	190	0	NR	NR		462412
36	0	190	0	NR	NR		462412
37	0	190	0	NR	NR		462412
38	0	190	0	NR	NR		462412
39	0	190	0	NR	NR		462412
40	0	190	0	NR	NR		462412
41	0	190	0	NR	NR		462412
42	0	190	0	NR	NR		462412
43	0	190	0	NR	NR		462412
44	0	190	0	NR	NR		462412
45	0	190	0	NR	NR		462412
46	0	190	0	NR	NR		462412
47	0	190	0	NR	NR		462412
48	0	190	0	NR	NR		462412
49	0	190	0	NR	NR		462412
50	0	190	0	NR	NR		462412
51	0	190	0	NR	NR		462412
52	0	190	0	NR	NR		462412
53	0	190	0	NR	NR		462412
54	0	190	0	NR	NR		462412
55	0	190	0	NR	NR		462412
56	0	190	0	NR	NR		462412
57	0	190	0	NR	NR		462412
58	0	190	0	NR	NR		462412
59	0	190	0	NR	NR		462412
60	0	190	0	NR	NR		462412

Population Served 3,500
 Number of routine samples 4
 (Must collect a minimum of 2 routine samples the month following a repeat sample collection)

Number of actual routine samples 7
 Does a M&R violation exist? YES NO

If yes, check reason(s) below:
 Actual number of samples lower than required
 Failure to analyze for chlorine if there was a positive result for total residual chlorine but no repeat of high turbidity sample
 Failure to analyze total samples

Does an MCL violation exist? YES NO
 If yes, check reason(s) below:
 Two or more positive total residual chlorine samples in a system (definition of more samples in chlorine for a system in a month)
 Positive chlorine followed by a positive total residual chlorine
 Positive total residual chlorine followed by a positive chlorine repeat

Signature: [Signature]
 Title: Water Systems Supervisor

Station: 1151502
 Report #: NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: OCTOBER 2002
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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 590258
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl ₂	Lime			
		Gallons	Cl ₂ use per 24hrs	Residual mg/l	Sodium Hydroxide			
1	5	150	0	0.8	8	590263		
2	3	150	0	NR	NR	590266		
3	0	150	0	0.32	7.2	590266		
4	1	150	0	NR	NR	590267		
5	0							
6	0							
7	0	150	0	0.79	8.1	590267		
8	1	150	0	0.66	8.1	590268		
9	4	150	0	0.78	7.5	590272		
10	1	150	0	0.85	7.6	590273		
11	10	150	0	NR	NR	590283		
12	0							
13	0							
14	1 505	07	53	0.22	9.5	591788		
15	07	07	4	0.65	7.7	591885		
16	4	03	0	0.1	8.5	591889		
17	10	02	1	0.35	8.2	591899		
18	0	02	0	0.43	8.3	591902		
19	0							
20	0							
21	2	07	0	0.04	7.8	591904		
22	14	02	0	0.04	7.6	591931		
23	15	07	0	NR	NR	591946		
24	02	00	0	0.34	8.2	592028		
25	3	02	0	NR	NR	592031		
26	0							
27	0							
28	0	00	0	NR	NR	592031		
29	0	00	0	0.3	7.3	592031		
30	3	00	0	0.05	7.5	592034		
31	0	00	0	0.03	7.6	592043		
1 1	1 075		60					
ALL	5758		1.94	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 *Al Rizzo*
 Title Water Systems Supervisor

Date 11-5-02

Certification No. NY0031941

10/31/02
Pump Data

MONTHLY GALLONAGE REPORT
2002 OCTOBER.xls

Date	Well 4	Well 6	Well 7	Well 10	Well 11	Well 12	Daily Total
1	237	308	955	0	158	5	1,663
2	452	174	756	18	2	3	1,405
3	548	204	913	43	0	0	1,708
4	402	236	809	145	0	1	1,593
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	1,040	620	2,242	0	1,579	0	5,481
8	318	166	775	0	50	1	1,310
9	326	203	863	0	0	4	1,396
10	376	233	692	0	0	1	1,302
11	478	198	1,062	136	0	10	1,884
12	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0
14	1,704	815	3,270	0	647	1,505	7,941
15	495	280	821	0	4	97	1,697
16	485	180	1,116	0	0	4	1,785
17	489	40	1,100	0	0	10	1,639
18	382	61	1,051	0	0	3	1,497
19	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
21	1,226	391	2,796	0	0	2	4,415
22	417	120	999	0	0	27	1,563
23	82	264	848	0	0	15	1,209
24	215	37	902	0	0	82	1,236
25	408	154	928	0	0	3	1,493
26	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0
28	1,101	334	2,962	0	0	0	4,397
29	373	177	1,273	0	0	0	1,823
30	366	105	1,003	0	0	3	1,477
31	379	62	1,227	0	0	9	1,677
Total	12,299	5,362	29,363	342	2,440	1,785	51,591
			Totalizer This Month		Totalizer Last Month		Total(x1,000) Gallons
		Well 4	1,498,748		1,486,449		12,299
		Well 6	356,995		351,633		5,362
		Well 7	917,997		883,634		29,363
		Well 10	764,719		764,377		342
		Well 11	462,912		460,472		2,440
		Well 12	582,043		580,258		1,785
AGS Water Supply Meter			412,483		409,224		3259.00
Medical Injector - Well 105			0		0		0.00
Well 9			6,686,260		6,685,250		11,001

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 : Tony Ross

Lab No. : 0210345-001A

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

Federal ID 5111891

Client ID. : 14859-001

Collected : 10/10/02 1:20:00 PM

Point No : 094-273

Received : 10/10/02 3:00:00 PM

Location : B-49 Water Tower

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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 : Tony Ross

Lab No. : 0210345-002A

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

Federal ID 5111891

Client ID. : 14859-002

Collected : 10/10/02 9:05:00 AM

Point No : 076-408

Received : 10/10/02 3:00:00 PM

Location : B-640 Water Tower

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 FAX: (631) 420-4435 NYSDOH ID# 10478

LABORATORY RESULTS

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

Lab No. : 0210345-003A

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

Federal ID 5111891
Collected : 10/10/02 11:10:00 AM
Received : 10/10/02 3:00:00 PM
Collected By : CLIENT
Copies To : Tony Ross

Point No : 045-12
Location : B-1005 Rhic

Client ID. : 14859-003

<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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

H2M LABS, INC.

575 BroadHollow Road, Melville NY 11747
(631) 694-3040, FAX: (631) 420-1436 NYSDOH ID # 10478

LABORATORY RESULTS

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

Lab No. : 0210345-004A

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

Federal ID 5111891

Client ID. : 14859-004

Collected : 10/10/02 8:30:00 AM

Point No : 109-19

Received : 10/10/02 3:00:00 PM

Location : B-363 Apt.Laundry

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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

PRELIMINARY

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 : Tony Ross

Lab No. : 0210345-005A

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

Federal ID 511189:

Client ID : 14859-006

Collected : 10/10/02 11:20:00 AM Point No : 075-602
Received : 10/10/02 3 00:00 PM Location : B-725 Nsls
Collected By : CLIENT
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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

H2M LABS, INC.

575 Broad Hallow Road, M:ville 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 : Tony Ross

Lab No. : 0210345-006A

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

Federal ID 5111891

Client ID : 14859-006

Collected : 10/10/02 1:35:00 PM

Point No : 084-69

Received : 10/10/02 3:00:00 PM

Location : B-490 Block 1 Afc

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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

PRELIMINARY

Date Reported :

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 : Tony Ross

Lab No. : 0210345-007A

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

Federal ID 5111891

Client ID. : 14859-007

Collected : 10/10/02 1:30:00 PM

Point No : 094-68

Received : 10/10/02 3:00:00 PM

Location : B-490 Block 4 Mrc

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

ATTACHMENT II

**Brookhaven National Laboratory
Potable Water Supply**

**October 2002 Biweekly Water Quality Monitoring Data for
the BNL Potable Water Wells and the BNL Distribution System**

Attachment II
Table 1 - Summary of Water Quality Analyses
for the BNL Potable Water System
October 2002

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (µmhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	10/1/02	7.4	57	137	NR	NR
WTP	10/3/02	7.1	57	131	NR	NR
WTP	10/8/02	7.6	56	143	NR	NR
WTP	10/10/02	7.8	56	144	NR	NR
WTP	10/15/02	7.7	54	155	NR	NR
WTP	10/17/02	7.7	55	149	NR	NR
WTP	10/22/02	7.4	56	135	NR	NR
WTP	10/24/02	7.4	57	138	NR	NR
WTP	10/29/02	7.0	58	139	NR	NR
WTP	10/31/02	7.1	54	137	NR	NR
Well 11	10/1/02	7.3	55	185	NR	NR
Well 11	10/3/02	7.2	55	148	NR	NR
Well 11	10/8/02	8.2	55	229	NR	NR
Well 11	10/10/02	7.5	55	153	NR	NR
Well 11	10/15/02	7.3	55	174	NR	NR
Well 11	10/17/02	7.5	55	160	NR	NR
Well 11	10/22/02	6.7	55	161	NR	NR
Well 11	10/24/02	7.0	55	180	NR	NR
Well 11	10/29/02	7.0	55	165	NR	NR
Well 11	10/31/02	6.5	55	218	NR	NR
Well 12	10/1/02	8.0	55	212	NR	NR
Well 12	10/3/02	7.2	55	155	NR	NR
Well 12	10/8/02	8.1	56	147	NR	NR
Well 12	10/10/02	7.6	56	156	NR	NR
Well 12	10/15/02	9.1	56	229	NR	NR
Well 12	10/17/02	8.2	56	200	NR	NR
Well 12	10/22/02	7.6	55	213	NR	NR
Well 12	10/24/02	8.2	55	201	NR	NR
Well 12	10/29/02	7.3	55	173	NR	NR
Well 12	10/31/02	7.6	56	255	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**

**2002 Fourth Quarter Bacteriological Results
for the BNL Potable Water Wells**

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 : Tony Ross

Lab No. : 0210345-008A

Sample Information...
Type : Potable Water
Origin : Raw Well
Routine

Federal ID 5111891

Client ID. : 14859-008

Collected : 10/10/02 12:50:00 PM Point No : 9
Received : 10/10/02 3:00:00 PM Location : Well #4 Raw
Collected By : CLIENT
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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 .FAX: (631)-420-3436 NYSDOH ID# 10478

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

Federal ID 5111851

Collected : 10/10/02 1:05:00 PM Point No : 9
Received : 10/10/02 3:00:00 PM Location : Well #6 Raw
Collected By : CLIENT
Copies To : Tony Ross

LABORATORY RESULTS

Lab No. : 0210345-009A

Sample Information...
Type : Potable Water
Origin : Raw Well
Routine

Client ID. : 14859-009

<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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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

PRELIMINARY

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 : Tony Ross

Lab No. : 0210345-010A

Sample Information...

Type : Potable Water

Origin : Raw Well

Routine

Federal ID 5111891

Client ID. : 14859-0010

Collected : 10/10/02 1:15:00 PM

Point No : 10

Received : 10/10/02 3:00:00 PM

Location : Well #7 Raw

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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 : Tony Ross

Lab No. : 0210345-011A

Sample Information...
Type : Potable Water
Origin : Raw Well
Routine

Federal ID 5111891

Client ID. : 14859-0011

Collected : 10/10/02 10:30:00 AM Point No : 11
Received : 10/10/02 3:00:00 PM Location : Well #10 Raw
Collected By : CLIENT
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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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

PRELIMINARY

Date Reported :

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 : Tony Ross

Lab No. : 0210345-012A

Sample Information...

Type : Potable Water

Origin : Raw Well

Routine

Federal ID 5111831

Client ID. : 14859-0012

Collected : 10/10/02 11:00:00 AM

Point No : 12

Received : 10/10/02 3:00:00 PM

Location : Well #11 Raw

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

H2M LABS, INC.

575 Broed Hollow Road, Melville NY 11747
 (631) 694-3040 . FAX: (531) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

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

Lab No. : 0210345-013A

Sample Information...
 Type : Potable Water
 Origin : Raw Well
 Routine

Federal ID 5111891

Client ID. : 14859-0013

Collected : 10/10/02 10:15:00 AM Point No : 13
 Received : 10/10/02 3:01:00 PM Location : Well #12 Raw
 Collected By : CLIENT
 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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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 : Tony Ross

Lab No. : 0210345-014A

Sample Information...
Type : Potable Water
Origin : Treated Well
Routine

Federal ID 5111891

Client ID. : 14859-0014

Collected : 10/10/02 11:30:00 AM

Point No : 14

Received : 10/10/02 3:00:00 PM

Location : Wtf Packed Tower 648

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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

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

PRELIMINARY

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 : Tony Ross

Lab No. : 0210345-015A

Sample Information...
 Type : Potable Water
 Origin : Treated Well
 Routine

Federal ID 5111891

Client ID. : 14859-0015

Collected : 10/10/02 10:30:00 AM

Point No : 055-36

Received : 10/10/02 3:00:00 PM

Location : Well #10 Gac Filter 654

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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

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

PRELIMINARY

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0210345-016A

Sample Information...
Type : Potable Water
Origin : Treated Well
Routine

Federal ID 5111891

Client ID. : 14858-0016

Collected : 10/10/02 11:00:00 AM

Point No : 056-31

Received : 10/10/02 3:00:00 PM

Location : Well #11 Gac Filter 655

Collected By : CLIENT

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	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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 : Tony Ross

Lab No. : 0210345-017A

Sample Information...
 Type : Potable Water
 Origin : Treated Well
 Routine

Federal ID 5111891

Client ID. : 14859-0017

Collected : 10/10/02 10:45:00 AM

Point No : 056-32

Received : 10/10/02 3:09:00 PM

Location : Well #12 Gac Filter 657

Collected By : CLIENT

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	* Positive		Negative	M9223	10/11/02 10:30:00 AM
E_Coliform	Absent		Absent	M9223	10/11/02 10:30:00 AM

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

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

PRELIMINARY

Date Reported

H2M LABS, INC.

575 Broad Hollow Road, Mineville NY 11747
(631) 684-3040 FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Tony Ross

Lab No. : 0210414-003A

Sample Information...

Type : Potable Water

Origin : Raw Well

Repeat

Federal ID 5111891

Client ID. : 14855-003

Collected : 10/14/02 3:00:00 PM

Point No : 13

Received : 10/14/02 4:00:00 PM

Location : Well #12 Raw

Collected By : CLIENT

Copies To : Bob Lee

<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	10/14/02 5:45:00 PM
E_Coliform	Absent		Absent	M9223	10/14/02 5:45:00 PM

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

Date Reported :

Laboratory Manager

H2M LABS, INC.

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

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

LABORATORY RESULTS

Lab No. : 0210414-004A

Sample Information...
Type : Potable Water
Origin : Raw Well
Repeat

Federal ID 5111861

Client ID. : 14855-004

Collected : 10/14/02 3:00:00 PM

Point No : 13

Received : 10/14/02 4:00:00 PM

Location : Well #12 Raw

Collected By : CLIENT

Copies To : Bob Lee

<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	10/14/02 5:45:00 PM
E_Coliform	Absent		Absent	M9223	10/14/02 5:45:00 PM

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

Date Reported :

Joann M. Slavin

Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040, FAX: (631) 420-8438 NYSDOH ID# 10478

LABORATORY RESULTS

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

Lab No. : 0210414-006A

Sample Information...
Type : Potable Water
Origin : Treated Well
Repeat

Federal ID 5111891

Client ID. : 14855-006

Collected : 10/14/02 3:02:00 PM

Point No : 058-32

Received : 10/14/02 4:00:00 PM

Location : Well #12 Gac Filter 657

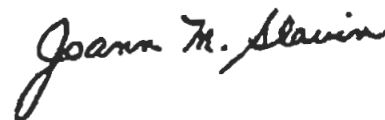
Collected By : CLIENT

Copies To : Bob Lea

<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	10/14/02 5:45:00 PM
E_Coliform	Absent		Absent	M9223	10/14/02 5:45:00 PM

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

Date Reported :



Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040, FAX: (631) 420-8438 NYSDOH ID# 10478

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

LABORATORY RESULTS

Lab No. : 0210414-005A

Sample Information...
Type : Potable Water
Origin : Treated Well
Repeat

Federal ID 5111891

Client ID. : 14855-005

Collected : 10/14/02 3:02:00 PM

Point No : 058-32

Received : 10/14/02 4:00:00 PM

Location : Well #12 Gac Filter 657

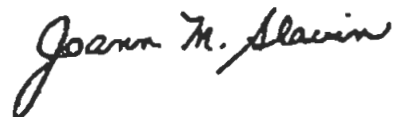
Collected By : CLIENT

Copies To : Bob Lee

<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	10/14/02 5:45:00 PM
E_Coliform	Absent		Absent	M9223	10/14/02 5:45:00 PM

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

Date Reported :



Laboratory Manager

