Environmental Services Division

Building 120
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cunniff@bnl.gov

BROOKHAVEN
NATIONAL LABORATORY

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

www.bnl.gov

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

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

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	_ Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	_ Sodium	Daily Totalizer
month	K Gals	155	per 24hrs	mg/l	Hydroxide	12677696
1	812	150	5	1.2	7.4	12678508
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	2,095	165	25	0.44	7.2	12683344
8	831	157	8	1.1	7.6	12684175
9	712	149	8	0.8	7.5	12684887
10	834	140	9	0.83	7.8	12685721
11	973	130	10	0.82	7.5	12686694
12	0					
13	0					
14	3,437	100	30	0.69	7.6	12690131
15	855	90	10	0.65	7.7	12690986
16	973	75	15	0.87	7.8	12691959
17	950	65+135	10	1.11	7.7	12692909
18	888	190	10	0.86	7.7	12693797
19	0					
20	0					
21	2,581	170	20	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	2,552	120	24	0.94	7.3	12702131
29	989	115	5	0.93	7	12703120
30	896	105	10	0.81	7.1	12704016
31	965	95	10	1.1	7.1	12704981
Total	27,285		265			
Avg	880.16		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 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: [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 11515100	SUFFOLK COUNTY	REPORTING PERIOD: OCTOBER 2002

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 ✓

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer
month	Gals	112	per 24hrs	mg/l	Hydroxide	1486449
1	237	100	12	2.6	5.8	1486686
2	452	99	10	2.02	5.8	1487138
3	548	95+65	5	2.02	5.7	1487686
4	402	147	3	2.04	5.7	1488088
5	0					
6	0					
7	1,040	117	30	2.03	5.9	1489128
8	318	110	7	2.02	5.8	1489446
9	326	106	4	2.018	5.9	1489772
10	376	99	7	2.06	6.1	1490148
11	478	90+30	9	NR	NR	1490626
12	0					
13	0					
14	1,204	87	23	0.4	5.8	1491830
15	495	70	3	2.04	5.8	1492325
16	495	70	3	2.01	5.8	1492820
17	589	63	4	2.10	5.9	1493409
18	392	150	6	2.15	5.8	1493801
19	0					
20	0					
21	1,226	136	24	2.49	5.9	1495027
22	417	122	4	2.03	5.9	1495824
23	82	120	2	2.03	5.6	1495906
24	215	117	4	2.00	5.8	1496121
25	328	110	4	2.02	5.6	1496449
26	0					
27	0					
28	1,101	97	23	2.72	5.8	1497550
29	423	91	6	2.37	5.5	1497973
30	600	72	6	2.56	5.6	1498573
31	175	66	6	2	5.6	1498748
Total	12,566		234			
Avg.	396.78		7.55	2.0 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 reasons below

___ Actual number of samples fewer than required

___ Failure to analyze for total coliform bacteria within 24 hours of a positive result for total coliform for routine or repeat samples or turbidity samples

___ Failure to analyze repeat samples

Does an MCL violation exist? YES ___ NO ✓

If yes, check reasons below

___ [illegible]

___ [illegible]

___ [illegible]

Signature: [illegible] Date: 11-5-02

Title: Water Systems Supervisor

PWS 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 ✓

	CHLORINATION				pH	
Day of month	Treated Water K Gals	Liquid Sodium Hypochlorite Gallons 195	Cl2 use per 24hrs	Free Cl2 Residual mg/l	__ Lime __ Sodium Hydroxide	Totalizer Daily Totalizer 351633
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	236	188	2	0.04	5.7	352555
5	0					
6	0					
7	620	181	7	0.03	5.9	353175
8	166	180	1	0.02	5.8	353341
9	203	180	0	0.018	5.9	353544
10	233	180	0	NR	NR	353777
11	198	176	4	NR	NR	353975
12	0					
13	0					
14	815	168	8	0.4	5.8	354790
15	230	165	3	0.04	5.8	355070
16	180	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	391	162	2	0.49	5.9	355742
22	120	162	0	0.63	5.9	355862
23	264	162	0	0.53	5.9	356126
24	37	160+40	2	0.66	5.9	356163
25	154	202	0	0.52	5.9	356317
26	0					
27	0					
28	334	200	0	0.78	5.9	356651
29	177	198	2	0.32	5.5	356828
30	105	198	0	0.56	5.6	356933
31	62	198	0	1	5.6	356995
Total	6,362		37			
AVG	172.02		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 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: 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	CHLORINATION: Treated Water	Liquid Sodium Hypochlorite: Gallons	Liquid Sodium Hypochlorite: Cl2 use per 24hrs	Free Cl2 Residual mg/l	pH: Lime Sodium Hydroxide	Totalizer: Daily Totalizer
	[illegible]	140				888634
1	955	118	22	1.6	5.8	889589
2	756	100	18	0.02	5.8	890345
[illegible]	913	99+110	10	0.02	5.7	891258
4	809	190	10	0.04	5.7	892067
5	0					
6	0					
	2,242	152	38	0.03	5.9	894309
	775	142	10	0.02	5.8	895084
	863	130	12	0.018	5.9	895947
[illegible]	692	120	10	0.06	6.1	896639
13	1,052	100+100	20	0.06	5.9	897691
14	0					
15	0					
16	2,270	143	[illegible]	0.4	5.8	900961
[illegible]	821	131	12	0.04	5.8	901782
[illegible]	1,126	112	28	0.31	5.9	903908
[illegible]	1,005	99	[illegible]	0.19	5.9	904908
[illegible]	1,051	83+95	[illegible]	0.15	5.8	905959
[illegible]	0					
	0					
[illegible]	[illegible]	120	[illegible]	0.46	5.9	907865
[illegible]	[illegible]	110	[illegible]	0.93	5.9	908954
[illegible]	837	[illegible]	12	0.53	5.9	909792
[illegible]	[illegible]	92+110	18	0.06	5.9	910604
	[illegible]	187	[illegible]	0.52	5.9	911532
[illegible]	0					
[illegible]	0					
	[illegible]	133	[illegible]	0.78	5.9	914494
[illegible]	1,273	110	22	0.32	5.5	915767
	[illegible]	[illegible]	[illegible]	0.56	5.6	916779
	[illegible]	26	[illegible]	1	5.9	917067
[illegible]	[illegible]		[illegible]			
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	

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 reasons below

____ Actual number of samples lower than required

____ Failure to analyze for [illegible] if there was a positive result for total coliform [illegible] repeat [illegible] routinely sample

____ Failure to analyze repeat samples

Does an MCL violation exist? YES ____ NO ✓

If yes, check reasons below

Two or more positive total coliform samples [illegible] the system collected [illegible] more samples [illegible] of total coliform per month

Positive [illegible] total coliform repeat [illegible]

[illegible] positive [illegible] total coliform [illegible]

[illegible] 11-5-02

Water Systems Supervisor

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 chlorination waiver? YES ___ NO ✓

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	__ Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	__ Sodium	Daily Totalizer
month	K Gals	190	per 24hrs	mg/l	Hydroxide	460472
1	158	190	0	0.09	7.3	460630
2	2	190	0	NR	NR	460632
3	0	190	0	0.17	7.2	460632
4	0	190	0	NR	NR	460632
	0					
	0					
7	1,579	190	0	0.3	8.4	462211
8	50	190	0	0.25	8.2	462261
9	0	190	0	0.58	7.9	462261
10	0	190	0	0.56	7.5	462261
11	0	190	0	NR	NR	462261
12	0					
13	0					
14	647	190	0	0.4	7	462908
15	4	190	0	0.02	7.3	462912
16	0	190	0	NR	NR	462912
17	0	190	0	0.32	7.5	462912
18	0	190	0	0.4	7.4	462912
19	0					
20	0					
21	0	190	0	0.02	6.9	462912
22	0	190	0	0.04	6.7	462912
23	0	190	0	NR	NR	462912
24	0	190	0	NR	NR	462912
25	0	190	0	NR	NR	462912
26	0					
27	0					
28	0	190	0	NR	NR	462912
29	0	190	0	0.25	7	462912
30	0	190	0	0.25	6.6	462912
31	0	190	0	0.14	6.5	462912
32	[illegible]					
33	[illegible]		[illegible]	[illegible]	[illegible]	

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 reasons below

___ Actual number of samples fewer than required

___ Failure to analyze for [illegible] 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 reasons below

___ Two or more positive total coliform samples for system [illegible] or more samples routine repeat or future open month

___ Positive [illegible] followed by a positive total coliform repeat [illegible]

___ Positive total [illegible] followed by a positive [illegible]

Reported by: [signature] Date: 11 5 02

Title: Water Systems Supervisor

Approved by: 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. 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 ✓

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	__ Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	__ Sodium	Daily Totalizer
month	K Gals	150	per 24hrs	mg/l	Hydroxide	580258
1	5	150	0	0.8	8	580263
2	3	150	0	NR	NR	580266
3	0	150	0	0.32	7.2	580266
4	1	150	0	NR	NR	580267
5	0					
6	0					
7	0	150	0	0.79	8.1	580267
8	1	150	0	0.66	8.1	580268
9	4	150	0	0.78	7.5	580272
10	1	150	0	0.88	7.6	580273
11	10	150	0	NR	NR	580283
12	0					
13	0					
14	1.505	97	53	0.22	9.5	581788
15	97	93	4	0.65	7.7	581885
16	4	93	0	0.1	8.5	581889
17	10	92	1	0.35	8.2	581899
18	3	92	0	0.43	8.3	581902
19	0					
20	0					
21	2	92	0	0.04	7.8	581904
22	27	92	0	0.04	7.6	581931
23	15	92	0	NR	NR	581946
24	82	90	2	0.34	8.2	582028
25	3	90	0	NR	NR	582031
26	0					
27	0					
28	0	90	0	NR	NR	582031
29	0	90	0	0.3	7.3	582031
30	3	90	0	0.08	7.5	582034
31	9	90	0	0.03	7.6	582043
Total	1.735		60			
AVG	57.56		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 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: 11-5-02

Title Water Systems Supervisor

Certification No. NY0031941

10/31/02
Pump Data

MONTHLY GALLONAGE REPORT
2002 OCTOBER.xls

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	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	888.634	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
[illegible] Water Supply Meter	412.483	409.224	3259.00
[illegible] Well 105	0	0	0.00
[illegible] Well 9	6,686.260	[illegible]	[illegible]

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. : 0210345-001A

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-002A

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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

DRAFT REPORT

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. : **0210345-003A**

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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) 420-1436 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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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) marked meet(s) Regulatory Limit(s).
Result(s) flagged with * Exceed Regulatory limit(s) unless 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. : **0210345-005A**

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

Federal ID 511189'
Collected : 10/10/02 11:20:00 AM
Received : 10/10/02 3:00:00 PM
Collected By : CLIENT
Copies To : Tony Ross

Point No : 075-602
Location : B-725 Nsls

Client ID. : 14859-006

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-006A

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-007A

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 : 084-68
Received : 10/10/02 3:00:00 PM
Location : B-490 Block 4 Mrc
Collected By : CLIENT
Copies To : Tony Ross

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-009A

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

Federal ID 5111851
Collected : 10/10/02 1:05:00 PM
Received : 10/10/02 3:00:00 PM
Collected By : CLIENT
Copies To : Tony Ross

Point No : 9
Location : Well #6 Raw

Client ID. : 14859-009

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-010A

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-011A

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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 5111891
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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-013A

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-014A

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-015A

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

Federal ID 5111891
Client ID. : 14869-0015
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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-016A

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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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. : 0210345-017A

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 3:00:00 PM
Location : Well #12 Gac Filter 657
Collected By : CLIENT
Copies To : Tony Ross

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
* 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) or 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. : 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

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

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

Lab No. : 0210414-004A

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

Federal ID 5111861
Collected : 10/14/02 3:00:00 PM
Received : 10/14/02 4:00:00 PM
Collected By : CLIENT
Copies To : Bob Lee

Point No : 13
Location : Well #12 Raw

Client ID. : 14855-004

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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) 420-8436 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
Collected : 10/14/02 3:02:00 PM
Received : 10/14/02 4:00:00 PM
Collected By : CLIENT
Copies To : Bob Lee

Client ID. : 14855-006
Point No : 056-32
Location : Well #12 Gac Filter 657

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

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

Lab No. : 0210414-005A

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

Federal ID 5111891
Collected : 10/14/02 3:02:00 PM
Received : 10/14/02 4:00:00 PM
Collected By : CLIENT
Copies To : Bob Lee

Client ID. : 14855-005
Point No : 056-32
Location : Well #12 Gac Filter 657

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
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