



April 8, 2004

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

Dear Ms. Kathleen Newcomer:

Subject: Monthly Water Treatment Plant Reports

Reference: Suffolk County Minimum Monitoring Requirements for March 2004

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2004 SCDHS Minimum Monitoring Requirements for the BNL Potable Water Supply, included please find the following attachments for your records:

- Attachment I: BNL Potable Water Monthly Operational Data and Bacteriological Analyses for March.
- Attachment II: February 2004 Biweekly and Semi-Annual Water Quality Monitoring Data for the BNL Distribution System and Potable Water Wells.
- Attachment III: 2003 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane Analyses 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 and Waste Management Services Division and Plant Engineering Divisions. Based on this information, we believe the values contained in these reports are representative of the BNL potable water system.



NSF's Registration Program
is accredited by the American
National Standards Institute-
Regional Accreditation Board

After reviewing the 2003 Potable Water data it was discovered that the analytical laboratory inadvertently left out the analytical results for 1,2-dibromomethane and 1,2-dibromo-3-chloropropane when reporting SOC data for the July sampling of the BNL potable wells; therefore the analytical results are attached.

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

Sincerely,



George A. Goode
Environmental & Waste Management Services
Division Manager

GAG/MA:car

Attachments: As noted

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

File: EC61ER.04

ATTACHMENT I

Brookhaven National Laboratory

Potable Water Supply

Monthly Operational Data and Bacteriological Analyses for March 2004

for the BNL Potable Water System

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MARCH 2004
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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 13111941	
	Treated Water	Liquid Sodium Hypochlorite Gallons	Cl2 use per 24hrs	Free Cl2 Residual mg/l		
	K. Gals	200				
1	0	200.	0	1	7.3	13111941
2	0	200	0	1	7.4	13111941
3	0	200	0	1	7	13111941
4	0	200	0	1.1	7.3	13111941
5	0	200	0	1	7.2	13111941
6	0					
7	0					
8	0	200	0	0.75	7.3	13111941
9	0	200	0	1.2	7.9	13111941
10	0	200	0	1.32	7.9	13111941
11	0	200	0	1.08	7.8	13111941
12	0	200	0	1.07	7.9	13111941
13	0					
14	0					
15	0	200	0	0.68	7.9	13111941
16	0	200	0	1	8.4	13111941
17	0	200	0	1	8.6	13111941
18	0	200	0	1	8.4	13111941
19	0	200	0	0.5	7.2	13111941
20	0					
21	0					
22	0	200	0	0.91	6.5	13111941
23	0	200	0	0.91	6.4	13111941
24	0	200	0	0.91	6.2	13111941
25	0	200	0	0.87	6.5	13111941
26	0	200	0	1.01	7.4	13111941
27	0					
28	0					
29	0	100	0	0.97	6.4	13111941
30	0	100	0	1.1	6.2	13111941
31	0	20	0	1.1	6.3	13111941
TOT	0		0			
AVG.	0.00		0.00	No. Days: 31		

Reported by:

Title: Water Systems Supervisor

Date: 4-2-04

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169

STATION 115151C0

SUFFOLK COUNTY

REPORTING PERIOD: MARCH

2004

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	Treated Water K Gals	CHLORINATION			pH	Totalizer 1648337
		Liquid Sodium Hypochlorite Gallons	Cl2 use per 24hrs	Free Cl2 Residual mg/l	Lime Sodium Hydroxide	
1	0	120	0	NR	NR	1648337
2	0	120	0	NR	NR	1648337
3	0	120	0	NR	NR	1648337
4	0	120	0	NR	NR	1648337
5	0	120	0	NR	NR	1648337
6	0					
7	0					
8	0	120	0	NR	NR	1648337
9	0	120	0	NR	NR	1648337
10	1	120	0	NR	NR	1648338
11	0	120	0	NR	NR	1648338
12	0	120	0	NR	NR	1648338
13	0					
14	0					
15	0	120	0	NR	NR	1648338
16	0	120	0	NR	NR	1648338
17	0	120	0	NR	NR	1648338
18	0	120	0	NR	NR	1648338
19	0	120	0	NR	NR	1648338
20	0					
21	0					
22	0	120	0	NR	NR	1648338
23	0	120	0	NR	NR	1648338
24	0	120	0	NR	NR	1648338
25	0	120	0	NR	NR	1648338
26	0	120	0	NR	NR	1648338
27	0					
28	0					
29	0	120	0	NR	NR	1648338
30	0	120	0	NR	NR	1648338
31	0	120	0	NR	NR	1648338
TOT	1		0			
AVG.	0.03		0.00	No. Days:	31	

Reported by:

JdR

Date: 4-2-04

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MARCH 2004
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LOCATION: WELL NO. 6

Did an emergency occur in any part of the water system?

YES NO

Source: Ground Water

Does the system have a chlorination waiver?

YES NO

Day of month	CHLORINATION			pH	Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite Gallons	Free Cl2 use per 24hrs	Lime Sodium	
	K Gals	mg/l	Hydroxide		
1	0	81	0	NR	435553
2	0	81	0	NR	435553
3	0	81	0	NR	435553
4	0	81	0	NR	435553
5	0	81	0	NR	435553
6	0				
7	0				
8	61	81	0	NR	435614
9	0	81	0	NR	435614
10	1	81	0	NR	435615
11	0	81	0	NR	435615
12	0	81	0	NR	435615
13	0				
14	0				
15	0	81	0	NR	435615
16	0	81	0	NR	435615
17	0	81	0	NR	435615
18	0	81	0	NR	435615
19	0	81	0	NR	435615
20	0				
21	0				
22	0	81	0	NR	435615
23	0	81	0	NR	435615
24	0	81	0	NR	435615
25	0	81	0	NR	435615
26	0	81	0	NR	435615
27	0				
28	0				
29	0	81	0	NR	435615
30	0	81	0	NR	435615
31	0	81	0	NR	435615
TOT	62		0		
AVG	2.00		0.00	No. Days	31

Reported by:

*Jd Raa*Date: 4-2-04

Title: Water Systems Supervisor

Certification No: NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MARCH	2004
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LOCATION: WELL NO. 7

Did an emergency occur in any part of the water system?

YES NO

Source: Ground Water

Does the system have a chlorination waiver?

YES NO

Day of month	CHLORINATION			pH	Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite Gallons	Free Cl ₂ use per 24hrs	Residual mg/L	
				Lime Sodium Hydroxide	
1	0	90	0	NR	NR 1374011
2	0	90	0	NR	NR 1374011
3	0	90	0	NR	NR 1374011
4	0	90	0	NR	NR 1374011
5	0	90	0	NR	NR 1374011
6	0				
7	0				
8	127	90	0	NR	NR 1374138
9	0	90	0	NR	NR 1374138
10	1	90	0	NR	NR 1374139
11	0	90	0	NR	NR 1374139
12	0	90	0	NR	NR 1374139
13	0				
14	0				
15	0	90	0	NR	NR 1374139
16	0	90	0	NR	NR 1374139
17	0	90	0	NR	NR 1374139
18	0	90	0	NR	NR 1374139
19	0	90	0	NR	NR 1374139
20	0				
21	0				
22	0	90	0	NR	NR 1374139
23	0	90	0	NR	NR 1374139
24	0	90	0	NR	NR 1374139
25	0	90	0	NR	NR 1374139
26	0	90	0	NR	NR 1374139
27	0				
28	0				
29	0	90	0	NR	NR 1374139
30	0	90	0	NR	NR 1374139
31	0	90	0	NR	NR 1374139
TOT	128		0		
AVG.	4.13		0.00	No. Days: 31	

Reported by:

*S. A. P. C. S.*Date: *4-2-04*

Title: Water Systems Supervisor

Certification No: NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD: MARCH 2004

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	Treated Water K Gals	CHLORINATION			pH	Population Served 3,500
		Liquid Sodium Hypochlorite Gallons	Free Cl2 use per 24hrs	Residual mg/l	Lime Sodium Hydroxide	
1	0	38	0	NR	NR	769079
2	0	38	0	NR	NR	769079
3	0	38	0	NR	NR	769079
4	0	38	0	NR	NR	769079
5	0	35	0	NR	NR	769079
6	0					
7	0					
8	248	38	0	NR	NR	769327
9	0	38	0	NR	NR	769327
10	0	38	0	NR	NR	769327
11	0	38	0	NR	NR	769327
12	0	38	0	NR	NR	769327
13	0					
14	0					
15	0	38	0	NR	NR	769327
16	0	38	0	NR	NR	769327
17	0	38	0	NR	NR	769327
18	0	38	0	NR	NR	769327
19	0	38	0	NR	NR	769327
20	0					
21	0					
22	0	38	0	NR	NR	769327
23	0	38	0	NR	NR	769327
24	0	38	0	NR	NR	769327
25	0	38	0	NR	NR	769327
26	0	38	0	NR	NR	769327
27	0					
28	0					
29	0	38	0	NR	NR	769327
30	0	38	0	NR	NR	769327
31	0	38	0	NR	NR	769327
TOT	248		0			
AVG.	8.00		0.00	No. Days:	31	

Reported by:

*S. D. Donn*Date: 4-2-04

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169

STATION 11515100

SUFFOLK COUNTY

REPORTING PERIOD: MARCH

2004

LOCATION: WELL NO. 11

Did an emergency occur in any part of the water system?

YES NO

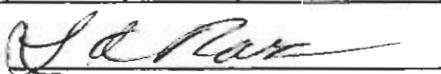
Source: Ground Water

Does the system have a chlorination waiver?

YES NO

Day of month	Treated Water K Gals	CHLORINATION			pH	Population Served 3,500
		Liquid Sodium Hypochlorite	Free Cl2	Lime	Totalizer	
		Gallons per 24hrs	Residual mg/l	Sodium Hydroxide	Daily Totalizer	
1	0	135	0	NR	NR	519442
2	286	129	6	NR	NR	519728
3	506	123	6	NR	NR	520234
4	0	123	0	NR	NR	520234
5	5	123	0	NR	NR	520239
6	0					
7	0					
8	62	123	0	NR	NR	520201
9	0	120+18	3	0.21	7.1	520301
10	6	141	0	NR	NR	520307
11	964	129	12	1	7.8	521271
12	1,535	111+39	18	1.1	7.8	522806
13	0					
14	0					
15	3,996	102	48	1	8.1	526802
16	1,562	84	18	1	8.2	528364
17	1,307	69	15	1	8.6	529671
18	1,375	54	15	1.1	7.9	531046
19	1,559	42+109	12	NR	NR	532605
20	0					
21	0					
22	4,373	96	54	0.8	6.1	536978
23	1,382	75	21	NR	NR	538360
24	1,558	60	15	NR	NR	539918
25	1,344	40+110	20	NR	NR	541262
26	193	150	0	NR	NR	541455
27	0					
28	0					
29	4,464	93	57	0.8	6.7	545919
30	1,571	75	18	0.8	6.4	547490
31	1,386	60	15	0.9	6.5	548876
TOT	29,434		353			
AVG.	949.48		11.39	No. Days:	31	

Reported by:



Title: Water Systems Supervisor

Date: 4-2-04

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MARCH	2004
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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	Population Served 3,500	
	Treated Water	Liquid Sodium Hypochlorite	Free Cl2 Residual	Lime Sodium		
	Gallons	Cl2 use per 24hrs	mg/l	Hydroxide	668676	
1	0	65	0	0.9	7.7	668676
2	1,478	50	15	0.83	7.9	670154
3	1,440	45+87	5	0.92	7.8	671594
4	1,414	120	12	1.5	7.4	673038
5	1,373	108	12	NR	NR	674381
6	0					
7	0					
8	3,978	63	47	1	7.7	678359
9	1,449	42+108	66	1.2	7.7	679808
10	1,329	126	24	1.1	7.9	681137
11	469	120	6	NR	NR	681606
12	0	120+30	0	NR	NR	681606
13	0					
14	0					
15	0	150	0	NR	NR	681606
16	0	150	0	NR	NR	681606
17	4	150	0	NR	NR	681610
18	0	150	0	1	8.4	681610
19	7	150	0	NR	NR	681617
20	0					
21	0					
22	148	150	0	NR	NR	681765
23	4	147	3	NR	NR	681769
24	0	147	0	NR	NR	681769
25	0	147	0	NR	NR	681769
26	1,336	125	22	NR	NR	683105
27	0					
28	0					
29	20	123	2	NR	NR	683125
30	0	123	0	NR	NR	683125
31	0	123	0	NR	NR	683125
TOT	14,449		214			
AVG.	466.10		6.90	No. Days:	31	

Reported by:

*WD Class*Date: *4-2-04*

Title: Water Systems Supervisor

Certification No. NY0031941

H2M LABS, INC.

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

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

Federal ID 5111891

Collected 3/5/2004 8:32:00 AM Point No 094-273
Received 3/5/2004 3:00:00 PM Location: B-49 Water Tower

Collected By CLIENT

Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403269-001

Sample Information...

Type : Potable Water

Origin: Distribution

Client ID. : 17807-001

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative	P/A	Negative	M9223	03/06/2004 12:00 PM
E_Coliform	Absent	P/A	Absent	M9223	03/06/2004 12:00 PM
Total Residual Chlorine	1.1	mg/L		M4500-Cl G	03/05/2004

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

Date Reported : 4/2/2004

Page 1 of 8

Laboratory Manager

Joann M. Slavin

BNLM146 A19

H2M LABS, INC.

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

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

Federal ID 5111891

Collected 3/5/2004 11:20:00 AM Point No 076-408

Received 3/5/2004 3:00:00 PM Location: B-640 Water Tower

Collected By CLIENT

Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403269-002

Sample Information...

Type : Potable Water

Origin: Distribution

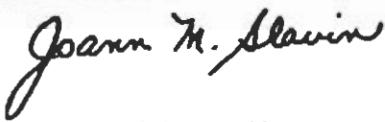
Client ID. : 17807-002

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative	P/A	Negative	M9223	03/06/2004 12:00 PM
E_Coliform	Absent	P/A	Absent	M9223	03/06/2004 12:00 PM
Total Residual Chlorine	1.1	mg/L		M4500-Cl G	03/05/2004

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

Date Reported : 4/2/2004

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Laboratory Manager

BNLM146 A20

H2M LABS, INC.

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

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected 3/5/2004 11:10:00 AM Point No 109-19

Received 3/5/2004 3:00:00 PM Location: B-363 Apt.Laundry

Collected By CLIENT

Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403269-003

Sample Information...

Type : Potable Water

Origin: Distribution

Client ID. : 17807-003

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative	P/A	Negative	M9223	03/06/2004 12:00 PM
E_Coliform	Absent	P/A	Absent	M9223	03/06/2004 12:00 PM
Total Residual Chlorine	0.9	mg/L		M4500-CI G	03/05/2004

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

Date Reported : 4/2/2004

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Laboratory Manager

Joann M. Slavin

BNLM146 A21

H2M LABS, INC.

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

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected 3/5/2004 10:45:00 AM Point No 045-12

Received 3/5/2004 3:00:00 PM Location: B-1005 RHIC

Collected By CLIENT

Copy : Original

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Lab No. : 0403269-004

Sample Information...

Type : Potable Water

Origin: Distribution

Client ID. : 17807-004

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative	P/A	Negative	M9223	03/06/2004 12:00 PM
E_Coliform	Absent	P/A	Absent	M9223	03/06/2004 12:00 PM
Total Residual Chlorine	0.5	mg/L		M4500-Cl G	03/05/2004

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

Date Reported : 4/2/2004

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Joann M. Slavin

Laboratory Manager

BNLM146 A22

H2M LABS, INC.

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

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

Federal ID 5111891
Collected 3/5/2004 11:00:00 AM Point No 054-187
Received 3/5/2004 3:00:00 PM Location: B-930 LINAC
Collected By CLIENT
Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403269-005

Sample Information...

Type : Potable Water

Origin: Distribution

Client ID. : 17807-005

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative	P/A	Negative	M9223	03/06/2004 12:00 PM
E_Coliform	Absent	P/A	Absent	M9223	03/06/2004 12:00 PM
Total Residual Chlorine	1.1	mg/L		M4500-Cl G	03/05/2004

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

Date Reported : 4/2/2004

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Joann M. Slavin
Laboratory Manager

BNLM146 A23

H2M LABS, INC.

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

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

Federal ID 5111891
Collected 3/5/2004 1:00:00 PM Point No 084-70
Received 3/5/2004 3:00:00 PM Location: B-490 Outpatient Clinic
Collected By CLIENT
Copy : Original
CC

LABORATORY RESULTS

Lab No. : 0403269-006

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

Client ID. : 17807-006

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative	P/A	Negative	M9223	03/06/2004 12:00 PM
E_Coliform	Absent	P/A	Absent	M9223	03/06/2004 12:00 PM
Total Residual Chlorine	1.0	mg/L		M4500-CI G	03/05/2004

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

Date Reported : 4/2/2004

Page 6 of 8

Laboratory Manager

Joann M. Slavin

BNLM146 A24

H2M LABS, INC.

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

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

Federal ID 5111891

Collected 3/5/2004 1:15:00 PM Point No 084-67

Received 3/5/2004 3:00:00 PM Location: B-490 Block 11

Collected By CLIENT

Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403269-007

Sample Information...

Type : Potable Water

Origin: Distribution

Client ID. : 17807-007

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative	P/A	Negative	M9223	03/06/2004 12:00 PM
E_Coliform	Absent	P/A	Absent	M9223	03/06/2004 12:00 PM
Total Residual Chlorine	1.0	mg/L		M4500-Cl G	03/05/2004

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

Date Reported : 4/2/2004

Page 7 of 8

Joann M. Slavin
Laboratory Manager

BNLM146 A25

H2M LABS, INC.

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

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

Federal ID 5111891 Client ID : 17807-008

Collected 3/5/2004 10:45:00 AM Point No 045-12

Received 3/5/2004 3:00:00 PM Location: B-1005 RHIC - Duplicate

Collected By CLIENT

Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403269-008

Sample Information...

Type : Potable Water

Origin: Distribution

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative	P/A	Negative	M9223	03/06/2004 12:00 PM
E_Coliform	Absent	P/A	Absent	M9223	03/06/2004 12:00 PM
Total Residual Chlorine	0.5	mg/L		M4500-Cl G	03/05/2004

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

Date Reported : 4/2/2004

Page 8 of 8

Joann M. Slavin

Laboratory Manager

BNLMI46 A26

ATTACHMENT II

Brookhaven National Laboratory

Potable Water Supply

March 2004 Biweekly and Semi-Annual Water Quality Monitoring Data

for the BNL Distribution System and Potable Water Wells

Attachment II

**Table 1 - Summary of Water Quality Analyses
for the BNL Potable Water System**
March 2004

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (μmhos)	Alkalinity (mg/L)	Calcium (mg/L)
Well #11	3/2/04	7.9	55	212	ANR	ANR
Well #11	3/4/04	NR	NR	NR	ANR	ANR
Well #11	3/9/04	7.1	55	191	ANR	ANR
Well #11	3/11/04	7.8	55	191	ANR	ANR
Well #11	3/16/04	8.2	55	198	ANR	ANR
Well #11	3/18/04	7.9	55	186	ANR	ANR
Well #11	3/23/04	NR	NR	NR	ANR	ANR
Well #11	3/25/04	NR	NR	NR	ANR	ANR
Well #11	3/30/04	NR	NR	NR	ANR	ANR
Well #12	3/2/04	NR	NR	NR	ANR	ANR
Well #12	3/4/04	7.4	56	210	ANR	ANR
Well #12	3/9/04	7.7	56	256	ANR	ANR
Well #12	3/11/04	NR	NR	NR	ANR	ANR
Well #12	3/16/04	8.0	56	251	ANR	ANR
Well #12	3/18/04	8.4	56	192	ANR	ANR
Well #12	3/23/04	NR	NR	NR	ANR	ANR
Well #12	3/25/04	7.5	56	231	ANR	ANR
Well #12	3/30/04	NR	NR	NR	ANR	ANR
Well #4	3/5/04	5.9	55	146	11.6	5.48
Well #6	3/5/04	6.1	54	116	7.6	3.86
Well #7	3/5/04	6.0	57	148	12.2	5.47
Well #10	3/5/04	6.9	57	74.7	20.3	5.09
Well #11	3/5/04	6.0	57	132	17.3	6.30
Well #12	3/5/04	6.6	57	108	21.4	7.10

ANR- Analysis Not Required

NR- Not Reported

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

H2M LABS, INC.

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

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

Federal ID 5111891
Collected 3/5/2004 9:02:00 AM Point No 083-20
Received 3/5/2004 3:00:00 PM Location: Well #4 Raw
Collected By CLIENT
Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403271-001

Sample Information...

Type : Potable Water

Origin: Raw Well

Client ID. : 17807-009

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Specific Conductance	146	µmhos/cm	E120.1	03/05/2004	
pH (FIELD)	5.9	pH units	E150.1	03/05/2004	
Temperature	13	°C	E170.1	03/05/2004	
Calcium	5480	µg/L	E200.7	03/26/2004 1:20 PM	
Alkalinity, Total (As CaCO ₃)	11.6	mg/L	M2320 B	03/12/2004 10:07 AM	

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

Date Reported : 4/2/2004

Page 1 of 6

Joann M. Slavin

Laboratory Manager

BNLMI46 A27

H2M LABS, INC.

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

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

Federal ID 5111891
Collected 3/5/2004 9:15:00 AM Point No 093-07
Received 3/5/2004 3:00:00 PM Location: Well #6 Raw
Collected By CLIENT
Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403271-002

Sample Information...

Type : Potable Water

Origin: Raw Well

Client ID. : 17807-010

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Specific Conductance	116	µmhos/cm	E120.1	03/05/2004	
pH (FIELD)	6.1	pH units	E150.1	03/05/2004	
Temperature	12	°C	E170.1	03/05/2004	
Calcium	3860	µg/L	E200.7	03/26/2004 2:03 PM	
Alkalinity, Total (As CaCO ₃)	7.6	mg/L	M2320 B	03/12/2004 10:10 AM	

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

Date Reported : 4/2/2004

Page 2 of 6

Laboratory Manager

Joann M. Slavin

BNL M146 A28

H2M LABS, INC.

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

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected 3/5/2004 10:15:00 AM Point No 092-03

Received 3/5/2004 3:00:00 PM Location: Well #7 Raw

Collected By CLIENT

Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403271-003

Sample Information...

Type : Potable Water

Origin: Raw Well

Client ID. : 17807-011

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Specific Conductance	148	umhos/cm		E120.1	03/05/2004
PH (FIELD)	6.0	pH units		E150.1	03/05/2004
Temperature	14	°C		E170.1	03/05/2004
Calcium	5470	µg/L		E200.7	03/26/2004 2:11 PM
Alkalinity, Total (As CaCO3)	12.2	mg/L		M2320 B	03/12/2004 10:23 AM

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

Date Reported : 4/2/2004

Page 3 of 6

Laboratory Manager

Joann M. Slavin

BNL M146 A29

H2M LABS, INC.

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

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected 3/5/2004 10:25:00 AM Point No 055-09

Received 3/5/2004 3:00:00 PM Location: Well #10 Raw

Collected By CLIENT

Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403271-004

Sample Information...

Type : Potable Water

Origin: Raw Well

Client ID. : 17807-012

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Specific Conductance	74.7	µmhos/cm		E120.1	03/05/2004
PH (FIELD)	6.9	pH units		E150.1	03/05/2004
Temperature	14	°C		E170.1	03/05/2004
Calcium	5090	µg/L		E200.7	03/26/2004 2:20 PM
Alkalinity, Total (As CaCO ₃)	20.3	mg/L		M2320 B	03/12/2004 10:28 AM

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

Date Reported : 4/2/2004

Page 4 of 6

Laboratory Manager

Joann M. Slavin

BNLM146 A30

H2M LABS, INC.

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

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected 3/5/2004 8:40:00 AM Point No 056-19

Received 3/5/2004 3:00:00 PM Location: Well #11 Raw

Collected By CLIENT

Copy : Original

CC

LABORATORY RESULTS

Lab No. : 0403271-005

Sample Information...

Type : Potable Water

Origin: Raw Well

Client ID. : 17807-013

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Specific Conductance	132	µmhos/cm	E120.1	03/05/2004	
PH (FIELD)	6.0	pH units	E150.1	03/05/2004	
Temperature	14	°C	E170.1	03/05/2004	
Calcium	6300	µg/L	E200.7	03/26/2004 2:28 PM	
Alkalinity, Total (As CaCO ₃)	17.3	mg/L	M2320 B	03/12/2004 10:31 AM	

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

Date Reported : 4/2/2004

Page 5 of 6

Laboratory Manager

Joann M. Slavin

BNLM146 A31

H2M LABS, INC.

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

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected 3/5/2004 10:35:00 AM Point No 056-20

Received 3/5/2004 3:00:00 PM Location: Well #12 Raw

Collected By CLIENT

Copy : Original

CC

Lab No. : 0403271-006

Sample Information...

Type : Potable Water

Origin: Raw Well

Client ID. : 17807-014

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Specific Conductance	108	µmhos/cm	E120.1	03/05/2004	
PH (FIELD)	6.6	pH units	E150.1	03/05/2004	
Temperature	14	°C	E170.1	03/05/2004	
Calcium	7100	µg/L	E200.7	03/26/2004 2:37 PM	
Alkalinity, Total (As CaCO ₃)	21.4	mg/L	M2320 B	03/12/2004 10:35 AM	

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

Date Reported : 4/2/2004

Page 6 of 6

Joann M. Slavin

Laboratory Manager

BNL M146 A32

ATTACHMENT III

Brookhaven National Laboratory

Potable Water Supply

2003 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane Analyses

for the BNL Potable Water Wells

16841-011/012

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLM SAS No.: _____ SDG No.: BNLM137

Matrix: (soil/water) Potable Water Lab Sample ID: 0307357-002A

Sample wt/vol: 35 (g/mL) ML Lab File ID: B00370.RAW

Level: (low/med) LOW Date Received: 7/10/03

% Moisture: not dec. Date Extracted: 7/21/03

GC Column: R-35 ID: .53 (mm) Date Analyzed: 7/22/03

Extract Volume: 2000 (μ l) Dilution Factor: 1.00

Injection Volume: 1 (μ l)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	μ g/L	Q
106-93-4	1,2-Dibromoethane	0.02	U	
96-12-8	1,2-Dibromo-3-chloropropane	0.02	U	

Composite of Wells 11+12

16841-008/009/010

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: BNLM SAS No.: _____ SDG No.: BNLM137

Matrix: (soil/water) Potable Water Lab Sample ID: 0307357-001A

Sample wt/vol: 35 (g/mL) ML Lab File ID: B00369.RAW

Level: (low/med) LOW Date Received: 7/10/03

% Moisture: not dec. Date Extracted: 7/21/03

GC Column: R-35 ID: .53 (mm) Date Analyzed: 7/22/03

Extract Volume: 2000 (μ l) Dilution Factor: 1.00

Injection Volume: 1 (μ l)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	μ g/L	Q
106-93-4	1,2-Dibromoethane	0.02	U	
96-12-8	1,2-Dibromo-3-chloropropane	0.02	U	

Composite of Weeks 4, 6, and 7