

September 8, 2000

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 August 2000

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2000 SCDHS Minimum Monitoring Requirements for the BNL Potable Water Supply, included please find the following attachments for your records:


- Attachment I: BNL Potable Water Monthly Bacteriological and Operational Reports for August 2000.
- Attachment II: August 2000 Biweekly Water Quality Monitoring Data for BNL Potable Water Wells.
- Attachment III: 2000 Third Quarter Radiological 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 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.

September 8, 2000

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,



E. A. Zimmerman, CEP, REM, CEA, CESM
Division Manager

EAZ/MA:rt

Attachments: As noted

cc: K. Brog w/o attachments
W. Chaloupka w/attachments
R. Lee w/attachments
E. Murphy w/attachments
P. Ponturo, SCDHS, w/o attachments
L. Ross w/o attachments
R. Simeone w/attachments

EC61ER.00



ATTACHMENT I

**Brookhaven National Laboratory
Potable Water Supply**

**Monthly Bacteriological and Operational
Reports for August 2000**

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD : **AUGUST 2000**

LOCATION: WATER TREATMENT PLANT

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	Liquid Sodium Hypochlorite Gallons	Free Cl2 Residual	___ Lime Sodium	Hydroxide	
	K Gals	Cl2 use per 24hrs	mg/l			
1	1,517	145	5	0.67	7.1	11948399
2	1,532	132	13	1.03	7.5	11949931
3	1,505	122	10	0.75	7.4	11951436
4	1,499	112+73	10	0.54	7.4	11952935
5	0					
6	0					
7	4,443	60/160	25	0.8	7.5	11957378
8	1,504	60/152	8	1.2	7.4	11958882
9	1,497	60/143	9	0.51	7.6	11960379
10	1,518	60/138	5	0.6	7.6	11961897
11	1,473	60+110/129	9	0.34	7.5	11963370
12	0					
13	0					
14	4,487	151/128	19	0.71	7.7	11967857
15	1,477	143/128	15	0.72	7.5	11969334
16	1,496	132/128	11	0.8	7.5	11970830
17	1,494	121/128	11	0.5	7.5	11972324
18	1,536	110/128	11	0.82	7.4	11973860
19	0					
20	0					
21	4,512	72/128	38	0.51	7.3	11978372
22	1,515	60+70/128	12	1.04	7.4	11979887
23	1,484	120	10	0.89	7.6	11981371
24	1,503	110	10	0.73	7.7	11982874
25	1,486	90	20	0.77	7.7	11984360
26	0					
27	0					
28	4,485	65	25	0.75	7.8	11988845
29	1,508	55	10	0.59	7.9	11990353
30	1,507	45	10	0.52	7.6	11991860
31	1,462	30	15	0.67	7.8	11993322
TOT	46,440		311			
AVG.	1498.06		10.03	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? 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 SO Ross

Date: 9-6-00

Title WATER SYSTEM SUPERVISOR

Cert #: 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD :	AUGUST 2000
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LOCATION: WELL NO. 4

Did an emergency occur in any part of the water system? yes no

Source: Ground Water

Does the system have a chlorination waiver? yes no

Month	CHLORINATION			pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite	Free Cl ₂ use Residual mg/l	Lime Sodium Hydroxide	Totalizer	
	K Gals	Gallons				
1	868	132 +20	18	0.06	6.1	1394296
2	716	141	11	0.01	6	1395012
3	615	130	11	0.03	6	1395627
4	623	119	11	0.01	6	1396250
5	0					
6	0					
7	1,983	85	35	0.03	6.1	1398233
8	650	72	13	0.06	6.1	1398883
9	468	67+133	5	0.06	6	1399351
10	704	190	10	0.12	6.1	1400055
11	509	180	10	0.17	6.1	1400564
12	0					
13	0					
14	1,815	145	35	0.16	6.2	1402379
15	510	132	13	0.05	6	1402889
16	569	122	10	0.48	6	1403458
17	592	111	11	0.07	6.1	1404050
18	529	100	11	0.26	6.1	1404579
19	0					
20	0					
21	1,448	70	30	0	6	1406027
22	608	60+140	10	0.12	6	1406635
23	679	190	10	0.24	6	1407314
24	738	180	10	0.24	6	1408052
25	549	165	15	0.23	6	1408601
26	0					
27	0					
28	1,716	132	33	0.2	6	1410317
29	523	122	10	0.07	6.2	1410840
30	488	110+80	12	0.06	6.2	1411328
31	619	178	12	0.04	6.1	1411947
TOT	18,519		346			
AVG	597.39		11.16	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? 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 JC/Loel

Date 9-6-00

Title WATER SYSTEMS SUPERVISOR

Cert. # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD : AUGUST 2000

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	Liquid Sodium Hypochlorite		Free Cl ₂ Residual	Lime Sodium	54539	
	K Gals	Gallons	Cl ₂ use per 24hrs	mg/l	Hydroxide		
1	614	58+142++	12	0.06	6.1	55753	
2	561	197	3	0.01	6	55714	
3	166	195	2	0.03	6	55880	
4	204	190	5	0.01	6	56084	
5	0						
6	0						
7	667	180	10	0.03	6.1	56751	
8	275	178	2	0.06	6.1	57026	
9	130	175	3	0.06	6	57156	
10	197	172	3	0.12	6.1	57353	
11	229	171	1	0.17	6.1	57582	
12	0						
13	0						
14	631	160	11	0.16	6.2	58213	
15	161	155	5	0.05	6	58374	
16	201	152	3	0.48	6	58575	
17	193	151	1	0.07	6.1	58768	
18	213	145	6	0.26	6.1	58981	
19	0						
20	0						
21	419	140	5	0	6	59400	
22	76	140	0	0.12	6	59476	
23	174	135	5	0.24	6	59650	
24	230	135	0	0.24	6	59880	
25	51	135	0	0.23	6	59931	
26	0						
27	0						
28	639	120	15	0.2	6	60570	
29	0	120	0	0.07	6.2	60570	
30	188	114	6	0.06	6.2	60758	
31	246	112	2	0.04	6.1	61004	
TOT	6,465		100			0	
AVG	208.55		3.23	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? 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 JD Ross

Date 9-6-00

Title WATER SYSTEM SUPERVISOR

Cert. # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD : **AUGUST 2000**

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 Cl2 Residual	Lime Sodium	Totalizer	
	K Gals	Cl2 use per 24hrs	mg/l	Hydroxide		
1	1,204	150	0	0.06	6.1	198540
2	1,074	135	15	0.01	6	199614
3	1,266	120	10	0.03	6	200880
4	1,242	108	12	0.01	6	202122
5	0					
6	0					
7	3,969	67+100	41	0.03	6.1	206091
8	1,341	152	15	0.06	6.1	207432
9	1,195	142	10	0.06	6	208627
10	1,262	131	9	0.12	6.1	209889
11	1,145	120	13	0.17	6	211034
12	0					
13	0					
14	3,679	82	38	0.16	6.2	214713
15	1,292	68	14	0.05	6	216005
16	1,257	55	13	0.48	6	217262
17	1,260	115+41	14	0.07	6.1	218522
18	1,232	145	11	0.26	6.1	219754
19	0					
20	0					
21	3,434	110	35	0	6	223188
22	1,282	98	12	0.12	6	224470
23	1,243	85	13	0.24	6	225713
24	1,388	72	13	0.24	6	227101
25	1,010	60	12	0.23	6	228111
26	0					
27	0					
28	3,630	30/140	30	0.2	6	231741
29	1,325	159	11	0.07	6.2	233066
30	1,108	149	10	0.06	6.2	234174
31	1,261	135	14	0.04	6.1	235435
TOT	38,099		365			0
AVG.	1229.00		11.77	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? 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 SC Ross Date: 9-6-00
 Title: WATER SYSTEMS SUPERVISOR Cert. # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD : **AUGUST 2000**

LOCATION: WELL NO. 10

Did an emergency occur in any part of the water system? yes _____ no

Source: Ground Water

Does the system have a chlorination waiver? yes _____ no

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer 763818
	Treated Water	Liquid Sodium Hypochlorite		Free Cl2 Residual	Lime Sodium Hydroxide	Totalizer	
		K Gals	Gallons				
1	0	60	0	0.3	7.9	763818	
2	13	60	0	0.3	7.9	763831	
3	0	60	0	NR	NR	763831	
4	0	60	0	NR	NR	763831	
5	0						
6	0						
7	0	60	0	NR	NR	763831	
8	0	50	0	NR	NR	763831	
9	3	60	0	NR	NR	763834	
10	0	60	0	NR	NR	763834	
11	0	60	0	NR	NR	763834	
12	0						
13	0						
14	0	60	0	NR	NR	763834	
15	0	60	0	NR	NR	763834	
16	4	60	0	NR	NR	763838	
17	18	60	0	NR	NR	763856	
18	0	60	0	NR	NR	763856	
19	0						
20	0						
21	0	60	0	0	0.6	763856	
22	0	60	0	NR	NR	763856	
23	0	60	0	NR	NR	763856	
24	0	60	0	NR	NR	763856	
25	0	60	0	NR	NR	763856	
26	0						
27	0						
28	0	60	0	NR	NR	763856	
29	0	60	0	NR	NR	763856	
30	0	60	0	NR	NR	763856	
31	0	60	0	NR	NR	763856	
TOT	38		0			0	
AVG	1.23		0.00	No Days	31		

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? yes _____ No

If yes, check reason's below.

____ Actual number of samples fewer than required.

____ Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample

____ Failure to analyze repeat samples

Does an MCL violation exist? 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 St. Papp

Date 9-6-00

Title WATER SYSTEMS SUPERVISOR

Cert # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD :	AUGUST 2000
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LOCATION: WELL NO. 11

Did an emergency occur in any part of the water system? yes no

Does the system have a chlorination waiver? yes no

Source: Ground Water

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer 324109
	Treated Water	Liquid Sodium Hypochlorite		Free Cl ₂ Residual mg/l	Lime Sodium Hydroxide	Totalizer	
		K Gals	Gallons				
1	0	170	0	0.3	8.1	324109	
2	0	170	0	0.4	8.1	324109	
3	0	170	0	NR	NR	324109	
4	0	170	0	NR	NR	324109	
5	0						
6	0						
7	24	168	2	NR	NR	324133	
8	2	168	0	NR	NR	324135	
9	3	168	0	0.28	8.2	324138	
10	2	168	0	0.26	8.1	324140	
11	1	168	0	0.21	7.9	324141	
12	0						
13	0						
14	4	168	0	0.16	6.2	324145	
15	0	168	0	0.4	8.1	324145	
16	0	168	0	0.6	8	324145	
17	0	168	0	8.7	7.7	324145	
18	0	168	0	NR	NR	324145	
19	0						
20	0						
21	27	168	0	NR	NR	324172	
22	0	168	0	0.07	6.5	324172	
23	6	168	0	NR	NR	324178	
24	0	168	0	NR	NR	324178	
25	0	168	0	NR	NR	324178	
26	0						
27	0						
28	0	168	0	1	7.1	324178	
29	6	168	0	0.85	7	324184	
30	6	168	0	0.87	6.9	324190	
31	0	168	0	0.96	7	324190	
TOT	81		2				
AVG	2.61		0.06	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? 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 JC Ross

Date 8-6-00

Title WATER SYSTEMS SUPERVISOR

Cert. # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD :	AUGUST 2000
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LOCATION: WELL NO. 12

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 Gallons	Free Cl ₂ use per 24hrs	Free Cl ₂ Residual mg/l	Lime Sodium Hydroxide		
1	168	147	1	0.5	8		241067
2	10	145	2	0.5	8		241077
3	606	140	5	1.1	7.5		241683
4	510	138	2	0.74	7.5		242193
5	0						
6	0						
7	935	130	8	0.75	8.2		243128
8	813	122	8	0.8	8		243941
9	974	112+43	10	0.77	8.1		244915
10	895	148	7	0.51	8.2		245810
11	928	140	8	0.83	8.4		246738
12	0						
13	0						
14	1,367	130	10	0.73	7.8		248105
15	429	125	5	0.6	8		248534
16	436	122	3	0.6	7.9		248970
17	631	119	3	0.65	7.7		249601
18	541	112	6	0.72	7.4		250142
19	0						
20	0						
21	1,169	105	7	NR	NR		251311
22	343	105	0	0.6	7.4		251654
23	713	98	7	0.7	7.4		252367
24	413	90	8	NR	MR		252780
25	485	90	0	NR	NR		253265
26	0						
27	0						
28	684	84	6	0.67	6.9		253949
29	240	82	2	0.57	6.8		254189
30	416	80+70	2	0.61	6.9		254605
31	344	148	2	0.62	6.9		254949
TCT	14,050		112				
AVG	453.23		3.61	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? no

If yes, check reason(s) below

- Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.
- Positive E. Coli result followed by a positive total coliform repeat sample
- Positive total coliform result followed by a positive E. Coli repeat sample

Reported By: J. C. Lewis

Date: 9-6-00

Title: WATER SYSTEMS SUPERVISOR

Cert. # 05650

8/31/00
Pump Data

MONTHLY GALLONAGE REPORT
Aug2000

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total
1	868	614	1,204	0	0	168	2,854
2	716	561	1,074	13	0	10	2,374
3	615	166	1,266	0	0	606	2,653
4	623	204	1,242	0	0	510	2,579
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	1,983	667	3,969	0	24	935	7,578
8	650	275	1,341	0	2	813	3,081
9	468	130	1,195	3	3	974	2,773
10	704	197	1,262	0	2	895	3,060
11	509	229	1,145	0	1	928	2,812
12	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0
14	1,815	631	3,679	0	4	1,367	7,496
15	510	161	1,292	0	0	429	2,392
16	569	201	1,257	4	0	436	2,467
17	592	193	1,260	18	0	631	2,694
18	529	213	1,232	0	0	541	2,515
19	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
21	1,448	419	3,434	0	27	1,169	6,497
22	608	76	1,282	0	0	343	2,309
23	679	174	1,243	0	6	713	2,815
24	738	230	1,388	0	0	413	2,769
25	549	51	1,010	0	0	485	2,095
26	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0
28	1,716	639	3,630	0	0	684	6,669
29	523	0	1,325	0	6	240	2,094
30	488	188	1,108	0	6	416	2,206
31	619	246	1,261	0	0	344	2,470
Total	18,519	6,465	38,099	38	81	14,050	77,252
		Totalizer		Totalizer		Total(x1,000)	
		This Month		Last Month		Gallons	
	Well 4	1,411,947		1,393,428		18,519	
	Well 6	61,004		54,539		6,465	
	Well 7	235,435		197,336		38,099	
	Well 10	763,856		763,818		38	
	Well 11	324,190		324,109		81	
	Well 12	254,949		240,899		14,050	
AGS Water Supply Meter		157,354		142,200		15154.00	
Medical Reactor - Well 105		80,005,470		76,812,240		3193.23	
Biology Building - Well 9		5,704,260		5,689,130		15.13	



575 Broad Hollow Road, Melville, NY 11747-5076
 (631)694-3040 . FAX:(631)420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Received : 04-AUG-2000 15:25
 Collected By : JK99
 Sample Type : Potable Water
 Proj. Number : 4469

BROOKHAVEN NATIONAL LAB -BNLM
 70 BELL AVE.
 UPTON, NY 11973
 Federal ID : 5111891

Copies To : SCHD

Lab Number	Collected	Location	Units		I-COLL BACT.	E-COLL.	CHLORINE RESIDUAL	
			Method	Limits			mg/L	SM#4500-CTG
20000804-035	04-AUG-2000 07:45	B-49 WATER TOWER	NONE		NONE	NONE		
			SA#9223		SM#9223			N/A
			NEGATIVE		NEGATIVE	ABSENT		0.6
			04-AUG-2000 16:00		04-AUG-2000 16:00			04-AUG-2000
20000804-036	04-AUG-2000 06:30	B-640 WATER TOWER	NEGATIVE		NEGATIVE	ABSENT		0.7
			04-AUG-2000 16:00		04-AUG-2000 16:00			04-AUG-2000
20000804-037	04-AUG-2000 06:45	B-1005 RHIC	NEGATIVE		NEGATIVE	ABSENT		<0.1
			04-AUG-2000 16:00		04-AUG-2000 16:00			04-AUG-2000
20000804-038	04-AUG-2000 08:00	B-363 APT. LAUNDRY	NEGATIVE		NEGATIVE	ABSENT		0.4
			04-AUG-2000 16:00		04-AUG-2000 16:00			04-AUG-2000
20000804-039	04-AUG-2000 07:00	B-725 NSLS	NEGATIVE		NEGATIVE	ABSENT		0.4
			04-AUG-2000 16:00		04-AUG-2000 16:00			04-AUG-2000
20000804-040	04-AUG-2000 07:25	B-480 BLOCK 1 ACF	NEGATIVE		NEGATIVE	ABSENT		0.4
			04-AUG-2000 16:00		04-AUG-2000 16:00			04-AUG-2000
20000804-041	04-AUG-2000 07:15	B-490 BLOCK 4-MRC	NEGATIVE		NEGATIVE	ABSENT		0.4
			04-AUG-2000 16:00		04-AUG-2000 16:00			04-AUG-2000

Joann M. Slavin

ORIGINAL
 Report for client information only

Date Issued : 08/28/2000

ATTACHMENT II

**Brookhaven National Laboratory
Potable Water Supply**

**August 2000 Biweekly Water Quality Monitoring Data for
the BNL Potable Water Wells**

Attachment II
Table 1
Summary of Water Quality Analyses
for the BNL Potable Water System
August 2000

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (μ mhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	8/1/00	7.1	60	109	NR	NR
WTP	8/3/00	7.4	60	126	NR	NR
WTP	8/8/00	7.4	58	135	NR	NR
WTP	8/10/00	7.6	57	127	NR	NR
WTP	8/15/00	7.5	60	130	NR	NR
WTP	8/17/00	7.5	61	131	NR	NR
WTP	8/22/00	7.4	59	126	NR	NR
WTP	8/24/00	7.6	60	129	NR	NR
WTP	8/29/00	7.9	56	134	NR	NR
WTP	8/31/00	7.8	56	136	NR	NR
Well 12	8/1/00	8.0	56	200	NR	NR
Well 12	8/3/00	7.6	56	156	NR	NR
Well 12	8/8/00	8.0	56	163	NR	NR
Well 12	8/10/00	8.2	56	155	NR	NR
Well 12	8/17/00	7.7	56	160	NR	NR
Well 12	8/22/00	7.4	58	157	NR	NR
Well 12	8/24/00	7.4	58	159	NR	NR
Well 12	8/29/00	6.8	56	157	NR	NR
Well 12	8/31/00	6.9	56	156	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**

**2000 Third Quarter Radiological Analyses
for the BNL Potable Water Wells**

ATTACHMENT III

Table 2
Summary of Radiological Results for the
BNL Potable Water Wells
2000 Third Quarter Monitoring Results

Well ID	Gross Alpha (pCi/L)	Gross Beta (pCi/L)	Tritium (pCi/L)
Well # 4	0.96	3.81	< 320
Well # 6	1.29	3.58	< 320
Well # 7	< 0.82	2.88	< 320
Well # 10	0.97	2.79	< 320
Well # 11	< 0.82	3.48	< 320

C. O. C. Number
20072406

Contractor Number
1

**BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION**

ERD COC No.: 7079

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

Ship to:
Pick Up by:
Attention:

Chain of Custody Information

Project Name: potable wells		Bioassay samples will not be accepted if bottles are filled above the shoulder.	
Requested by: b lee	E-Mail Reports to: lettieri	Priority Authorization	
Life Number: 20222 3148	EP Manager: b lee	Group Leader or Higher CALL	
Account No.: 07089 Dept. Code: ES	FSS Manager:	x3630, x2502 (Rad), x4860 (Non-Rad)	

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

ASL Number	Sample Information							Container		Analysis Requested***									
	Grid	-ID	Date	-C	Time	Bldg. #	Matrix	Description	#	vol.	αβ	3H	γ	624	MET	WQ	VOA	PCB	pH
20072406-01			000724		1350		w	083-400-10 Potable Well #4			x	x	x	x	x	x			
20072406-02			000724		1341		w	093-400-10 Potable Well #6			x	x	x	x	x	x			
20072406-03			000724		1334		w	092-400-10 Potable Well #7			x	x	x	x	x	x			
20072406-04			000724		1420		w	055-400-10 Potable Well #10			x	x	x	x	x	x			
20072406-05			000724		1410		w	056-400-10 Potable Well #11			x	x	x	x	x	x			
20072406-06			000724		1410		w	056-400-11 Potable Well #11-Dup.			x	x	x	x	x	x			
20072406-07			000724		1300		w	076-400 Try Blank									x		

Must be one of the samplers

Transferred to : lettieri	RA Brown
Signed by: lettieri	RA Brown
Date/time: 7/24/00 1543	7/24/00 1558

***OTHER ANALYSIS NOT LISTED

COMMENTS

