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

July 7, 2005

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

Dear Ms. Kathleen Newcomer:

Subject:Monthly Water Treatment Plant ReportsReference:Suffolk County Minimum Monitoring Requirements for June 2005

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2005 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 for June.
Attachment II:	June 2005 Biweekly Water Quality Monitoring Data for the BNL Distribution System and Potable Water Wells.
Attachment III:	June 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data and Bacteriological Analyses for the BNL Distribution System.

Collection and analysis of these samples is 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.



Should there be any questions regarding this report or the analytical or operational data contained herein, please call either M. Allocco at (631) 344-3166, J. Higbie at (631) 344-5919, R. Lee at (631) 344-3148, or W. Chaloupka at (631) 344-7136.

Sincerely,

14

George A. Goode Environmental & Waste Management Services Division Manager

GAG/JB:car Attachments: As noted

M. Allocco L. Ambroszkiewicz, SCDHS W. Chaloupka J. Granzen G. Goode R. Lee E. Murphy P. Ponturo, SCDHS L. Ross

File: EC61ER.05

J. Tarpinian

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ATTACHMENT I

Brookhaven National Laboratory

onthly Operational Data for June 2005

Potable Water Supply

for the BNL Potable Water System

			BRC	OKH/	AVEN	NATIO	NAL LABORATORY
				w	ATER SY	STEMS OPE	RATION REPORT
PUBLI	C WATER	SUPPLY PR	ROTECTION				n 1
PR	OGRAM	CODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JUNE 2005
LOC	ATION:	Water Treat	ment Facilit	y			
					Did an en	nergency occur	in any part of the water system? YES NO $$ X
Sou	rce: Grou	nd Water					em have a chlorination waiver? YES NO X
		CHLORIN	ATION		pH		
	Treated	Liquid Sodium		Free Cl2	Lime	Totalizer	
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500
month	K Gals	140	per 24hrs	mg/l	Hydroxide	67848	
1	731	135	5	0.55	7.7	68579	Number of routine samples 4
2	801	130	5	1.22	7.7	69380	(Must collect a minimum of 5 routine samples the month following
3	722	120	10	0.66	7.7	70102	a repeat sample collection)
4	0						
5	0		5				Number of actual routine samples
6	2,706	100	20	1.20	7.7	72808	
7	1,053	85	15	0.86	7.8	73861	Does a M&AR violation exist? YES NO X
8	999	78	7	1.47	7.7	74860	
9	1,025	65	13	0.60	7.7	75885	
10	1,125	55+55=110	10	0.66	7.7	77010	If yes, check reason's below.
11	0						
12	0						Actual number of samples fewer than required.
13	3,221	80+110	20	1.00	7.5	80231	
14	1,264	170	30	0.95	7.7	81495	Failure to analyze for E. Coli if there was a positive result for
15	321	162	8	0.93	7.4	81816	total coliform from routine, repeat of high turbidity sample.
16	. 83	120	42	0.53	7.7	81899	
17	867	110	10	0.67	7.6	82766	Failure to analyze repeat samples.
18	0	_				· · · · ·	
19	0						Does an MCL violation exist? YES NO X
20	2,458	70	40	1.20	7.6	85224	
21	807	54	16	0.80	7.9	86031	If yes, check reason(s) below.
22	823	35	19	1.10	7.6	86854	
23	885	190	10	0.53	7.7	87739	Two or more positive total coliform samples for systems collecting 40
24	825	180	10	1.26	7.7	88564	or more samples (routine, repeat or hiturb) per month.
25	0						
26	0						Positive E. Coli result followed by a positive total coliform repeat sample.
27	2,513	153	27	0.97	7.7	91077	
28	915	142	11	0.73	7.7	91992	Positive total coliform result followed by a positive E. Coli repeat sample.
29	1,359	129	13	0.70	7.7	93351	
30	1,150	117	12	1.20	7.6	94501	
31	0						
TOT	26,653		353			1	
AVG.	888.43		11.77	No. Days:	30		
R	eported by	Ti	Ken	11			Date: 7-1-E 5
	Title:	Water Sys	tems Supe	ervisor			Certification No. NY0031941
							стородиции и на селотороди и на

PUBL	C WATER	SUPPLY PF	ROTECTION				
PF	OGRAM	ODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JUNE 2005
LOC	ATION:	WELL NO.	4				
					Did an err	ergency occur	in any part of the water system? YES NO
Sou	rce: Grou	nd Water				Does the system	em have a chlorination waiver? YES NO
		CHLORIN	ATION		рН		
	Treated	Liquid Sodium	Hypochlorite	Free Cl2	Lime	Totalizer	
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500
month	K Gals	0	per 24hrs	mg/l	Hydroxide	1648622	
1	0	0	0	NR	NR	1648622	Number of routine samples
2	0	0	0	NR	NR	1648622	(Must collect a minimum of 5 routine samples the month following
3	0	0	0	NR	NR	1648622	a repeat sample collection)
4	0						Number of actual routine samples
6	0	0	0	NR	NR	1648622	
7	0	0	0	NR	NR	1648622	Does a M&AR violation exist? YES NO
8	0	0	0	NR	NR	1648622	
9	0	0	0	NR	NR	1648622	·
10	0	0	0	NR	NR	1648622	If yes, check reason's below.
11	0						
12	0						Actual number of samples fewer than required.
13	0	0	0	NR	NR	1648622	
14	0	0	0	NR	NR	1648622	Failure to analyze for E. Coli if there was a positive result for
15	0	0	0	NR	NR	1648622	total coliform from routine, repeat of high turbidity sample.
16	0	0	0	NR	NR	1648622	
17	0	0	0	NR	NR	1648622	Failure to analyze repeat samples.
18	0						
19	0						Does an MCL violation exist? YES NO
20	0	0	0	NR	NR	1648622	
21	0	0	0	NR	NR	1648622	If yes, check reason(s) below.
22	0	0	0	NR	NR	1648622	T
23	0	0	0	NR	NR	1648622	Two or more positive total coliform samples for systems collecting 40
24 25	0	0		NR	NR	1040022	or more samples (routine, repeat or hiturb) per month.
25	0						Positive E. Coli result followed by a positive total coliform repeat sample.
27	0	0	0	NR	NR	1648622	
28	0	0	0	NR	NR	1648622	Positive total coliform result followed by a positive E. Coli repeat sample.
29	0	0	0	NR	NR	1648622	
30	0	0	0	NR	NR	1648622	
31	0						
тот	0		0		1		
AVG.	0.00		0.00	No. Days:	30		
R	eported by:	Za	jlan)				Date: 7-1-05
1	Title:	Water Sys	tems Supe	rvisor		P	Certification No. NY0031941

PUBLI	C WATER	SUPPLY PF	ROTECTION				
PR	OGRAM (CODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JUNE 2005
LOC	ATION:	WELL NO.	6				
					Did an em	nergency occur	in any part of the water system? YES NO
Sou	rce: Grou	nd Water				Does the syste	em have a chlorination waiver? YES NO
		CHLORIN	ATION		рН		
	Treated	Liquid Sodium	Hypochlorite	Free Cl2	Lime	Totalizer	
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500
month	K Gals	126	per 24hrs	mg/i	Hydroxide	549754	ii.
1	121	125	1	0.12	6.1	549875	Number of routine samples
2	123	120	5	0.10	6	549998	(Must collect a minimum of 5 routine samples the month following
3	155	120	0	0.08	6.1	550153	a repeat sample collection)
4	0						~
5	0						Number of actual routine samples
6	547	112	8	0.00	6.1	550700	
7	181	112	0	0.30	6.1	550881	Does a M&AR violation exist? YES NO
8	241	112	0	0.08	6.2	551122	
9	204	111	1	0.03	6.1	551326	
10	308	108+42=150	3	0.03	6.2	551634	If yes, check reason's below.
11	0						
12	0						Actual number of samples fewer than required.
13	775	150	0	0.03	6.1	552409	
14	517	129	21	0.04	6.1	552926	Failure to analyze for E. Coli if there was a positive result for
15	228	117+33	12	NR	NR	553154	total coliform from routine, repeat of high turbidity sample.
16	127	144	6	NR	NR	553281	
17	136	132	12	0.01	6	553417	Failure to analyze repeat samples.
18 19	. 0						Does an MCL violation exist? YES NO
20	188	126	6	0.00	6.1	553605	
20	121	120	6	0.02	6.1	553726	If yes, check reason(s) below.
22	81	117	3	0.18	6.1	553807	
23	14	117	0	0.06	6.1	553821	Two or more positive total coliform samples for systems collecting 40
24	82	117	0	0.19	6.1	553903	or more samples (routine, repeat or hiturb) per month.
25	0						
26	0						Positive E. Coli result followed by a positive total coliform repeat sample.
27	519	93	24	0.37	6.1	554422	
28	187	81	12	0.20	6.1	554609	Positive total coliform result followed by a positive E. Coli repeat sample.
29	322	69	12	0.20	6.1	554931	
30	260	57	12	0.20	6.1	555191	
31	0					1	
тот	5,437		144				
AVG.	181.23		4.80	No. Days:	30		
R	eported by:	Ve.	Rezer	_			Date: 7-1-05
	Title:	Water Sys	tems Supe	ervisor			Certification No. NY0031941

PUBLI	C WATER	SUPPLY PF	ROTECTION			4		
PR	OGRAM (ODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JUN	E 2005
LOC	ATION:	WELL NO.	7					<i>y</i>
					Did an en	nergency occur	in any part of the water system?	YES NO
Sou	rce: Grou	nd Water				Does the syste	em have a chlorination waiver?	YES NO
		CHLORINA	ATION		рН			
	Treated	Liquid Sodium	Hypochlorite	Free Cl2	Lime	Totalizer		
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500	
month	K Gals	99	per 24hrs	mg/l	Hydroxide	1689337		. i
1	744	90	9	0.12	6.1	1690081	Number of routine samples	<u> </u>
2	839	75	15	0.10	6	1690920	(Must collect a minimum of 5 routine samples	the month following
3	750	65+85	10	0.08	6.1	1691670	a repeat sample collection)	
4	0							
5	0						Number of actual routine samples	
6	2,471	120	30	0.00	6.1	1694141		1
7	946	105	15	0.30	6.1	1695087	Does a M&AR violation exist?	YES NO
8	878	90	15	0.08	6.2	1695965		00 3
9	894	84	6	0.03	6.1	1696859		
10	931	69.+81=150	15	0.03	6.2	1697790	If yes, check reason's below.	
11	0							
12	. 0			-		1700710	Actual number of samples fewer than re	equired.
13	2,952	105	45	0.03	6.1	1700742		
14	824	00	15	0.04	6.1	1701566	Failure to analyze for E. Coli if there was	
15	175	87+63	3	NR	NR NR	1701741	total coliform from routine, repeat of high tu	rolaty sample.
16 17	16 931	150 132	18	0.01	6	1701757 1702688	Failure to analyze repeat samples.	
18	931	152	10	0.01		1102000		
19	0						Does an MCL violation exist?	YES NO
20	2,513	96	36	0.00	6.1	1705201		
21	820	81	15	0.02	6.1	1706021	If yes, check reason(s) below.	
22	835	69+81	12	0.02	6.1	1706856		
23	957	135	15	0.06	6.1	1707813	Two or more positive total coliform sam	ples for systems collecting 40
24	801	126	7	0.19	6.1	1708614	or more samples (routine, repeat or hiturb) per	month.
25	0							
26	0						Positive E. Coli result followed by a posi	tive total coliform repeat sample.
27	2,639	75	51	0.37	6.1	1711253		
28	835	60	15	0.20	6.1	1712088	Positive total coliform result followed by	a positive E. Coli repeat sample.
29	1,132	42+108	18	0.20	6.1	1713220		
30	1,076	138	12	0.20	6.1	1714296		8
31	0							25
тот	24,959		377		 			а. С
AVG.	831.97		12.57	No. Days:	30			
R	eported by:	La	flers	· ·			Date: 7-1-05	×
	Title:	Water Sys	tems Supe	ervisor			Certification No. NY0031941	

PUBL	C WATER	R SUPPLY PR	ROTECTION					
PF	OGRAM	CODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JUNE 2005	
LOC	ATION:	WELL NO.	10					/
					Did an em	nergency occur	in any part of the water system? YES NO 1/	_
Sou	rce: Grou	nd Water				Does the syste	em have a chlorination waiver? YES NO L	
		CHLORIN	ATION		рН			
	Treated	Liquid Sodium	Hypochlorite	Free Cl2	Lime	Totalizer		
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500	
month	K Gals	0	per 24hrs	mg/l	Hydroxide	771139	Li -	
1	0	0	0	NR	NR	771139	Number of routine samples	
2	0	0	0	NR	NR	771139	(Must collect a minimum of 5 routine samples the month following	
3	0	0	0	NR	NR	771139	a repeat sample collection)	
4	0						Number of actual routine samples	
						774004		
6 7	192 0	0	0	NR NR	NR NR	771331 771331	Does a M&AR violation exist? YES NO	
8	0	0	0	NR	NR	771331		
9	0	0	0	NR	NR	771331		
10	0	0	0	NR	NR	771331	If yes, check reason's below.	
11	0							
12	0						Actual number of samples fewer than required.	
13	0	0	0	NR	NR	771331		
14	0	0	0	NR	NR	771331	Failure to analyze for E. Coli if there was a positive result for	
15	0	0	0	NR	NR	771331	total coliform from routine, repeat of high turbidity sample.	
16	0	0	0	NR	NR	771331		
17	0	0	0	NR	NR	771331	Failure to analyze repeat samples.	
18	0							-
19	0	0					Does an MCL violation exist? YES NO	
20	0	0	0	NR	NR	771331	ing.	
21	0	0	0	NR	NR	771331	If yes, check reason(s) below.	
22	0	0	0	NR	NR	771331		
23	0	0	0	NR	NR	771331	Two or more positive total coliform samples for systems collecting 40	
24	0	0	0	NR	NR	771331	or more samples (routine, repeat or hiturb) per month.	
25	0							
26	0						Positive E. Coli result followed by a positive total coliform repeat sample.	
27	0	0	0	NR	NR	771331		
28	0	0	0	NR	NR	771331	Positive total coliform result followed by a positive E. Coli repeat sample.	
29	0	0	0	NR	NR NR	771331	÷	•
30	0	0	0	NR	INK	771331		
31 TOT	0 192		0					1
AVG.	6.40		0.00	No. Days:	30			
	*	n Pm					/ _ /	
R	eported by	Sa	Rai	En-			Date: 7-1-05	6
	Title:	Water Sys	tems Supe	rvisor			Certification No. NY0031941	

PUBLI	C WATER	SUPPLY PF	ROTECTION				
PR	OGRAM C	ODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JUNE 2005
LOC	ATION:	WELL NO.	11			14	
					Did an em	ergency occur	in any part of the water system? YES NO
Sou	rce: Grou	nd Water				Does the syst	em have a chlorination waiver? YES NO
		CHLORINA	ATION		рН		
	Treated	Liquid Sodium	Hypochlorite	Free Cl2	Lime	Totalizer	-
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500
month	K Gals	93	per 24hrs	mg/l	Hydroxide	642962	<i>i i</i>
1	669	80	13	1.20	7.3	643631	Number of routine samples
2	732	63	17	NR	NR	644363	(Must collect a minimum of 5 routine samples the month following
3	662	54+91	9	NR	NR	645025	a repeat sample collection)
4	0						7
5	0						Number of actual routine samples
6	2,511	87	58	0.87	6.7	647536	
7	970	73	14	0.83	NR	648506	Does a M&AR violation exist? YES NO
8	909	60	13	0.50	NR	649415	
9	227	57 57	3	NR NR	NR NR	649642 649642	lf use sheek recentle belew
10 11	0	57			INK	049042	If yes, check reason's below.
12	0						Actual number of samples fewer than required.
13	0	57	0	NR	NR	649642	
14	64	54	3	NR	NR	649706	Failure to analyze for E. Coli if there was a positive result for
15	864	45+60	10	NR	NR	650570	total coliform from routine, repeat of high turbidity sample.
16	279	100	5	NR	NR	650849	
17	0	100	0	NR	NR	-650849	Failure to analyze repeat samples.
18	0						
19	0		10		=		Does an MCL violation exist? YES NO
20	0	100	0	NR	NR	650849	
21	641	90	10	NR	NR	651490	If yes, check reason(s) below.
22	758	78+72	12	NR	NR	652248	
23	809	138	12	0.95	6.3	653057	Two or more positive total coliform samples for systems collecting 40
24	751	126	12	0.73	6.7	653808	or more samples (routine, repeat or hiturb) per month.
25	0						
26	0						Positive E. Coli result followed by a positive total coliform repeat sample.
27	2,302	90	36	NR	NR	656110	
28	837	78	12	0.20	6.2	656947	Positive total coliform result followed by a positive E. Coli repeat sample.
29	1,230	60+75	18	0.82	6.2	658177	
30	1,030	126	9	0.70	6.2	659207	
31	0		000				
TOT	16,245		266	No Dava	20		
AVG.	541.50	. 6	8.87	No. Days:	30		
R	eported by:	Ja.	Kerry-				Date: 7-1-05
	Title:	Water Sys	tems Supe	rvisor			Certification No. NY0031941

					ROTECTION	SUPPLY PF	C WATER	UBLI
2005	REPORTING PERIOD: JUNE	K COUNTY	SUFFO	11515100	STATION	ODE 169	OGRAM C	PR
					12	WELL NO.	ATION:	LOC
NO L	n any part of the water system? YES	ergency occur	Did an em					
NO L	m have a chlorination waiver? YES	Does the syste				nd Water	rce: Groun	Sou
1			рН		ATION	CHLORINA		
		Totalizer	Lime	Free Cl2	Hypochlorite	Liquid Sodium	Treated L	
	Population Served 3,500	Daily Totalizer	Sodium	Residual	Cl2 use	Gallons	Water	ay of
el i		737155	Hydroxide	mg/l	per 24hrs	69	K Gals	onth
4	Number of routine samples	737155	NR	NR	0	69	0	1
llowing	(Must collect a minimum of 5 routine samples the month folk	737155	NR	NR	0	69	0	2
	a repeat sample collection)	737155	NR	NR	0	69	0	3
-7							0	4
	Number of actual routine samples						0	5
		737184	NR	NR	0	69	29	6
NO_	Does a M&AR violation exist? YES	737184	6.5	0.40	0	69	0	7
		737187	NR	NR	0	69	3	8
		737961	7.5	0.20	12	57	774	9
	If yes, check reason's below.	739086	NR	NR	21	36+89=125	1,125	10
							0	11
	Actual number of samples fewer than required.		-	-			0	12
		742311	8.3	1.00	47	78	3,225	13
	Failure to analyze for E. Coli if there was a positive re-	743670	7.9	1.00	21	57	1,359	14
le.	total coliform from routine, repeat of high turbidity sample	745113	7.9	0.90	24	33+117	1,443	15
		746605	8	0.90	21	129	1,492	16
	Failure to analyze repeat samples.	747495	NR	NR	12	117	890	17
NO Č				1. 			0	18
NO	Does an MCL violation exist? YES						0	19
		749900	NR	NR	20	87	2,405	20
	If yes, check reason(s) below.	749989	NR	NR	3	84	89	21
	T	749989	NR	NR	0	84	0	22
ems collecting 40	Two or more positive total coliform samples for system	749989	NR	NR	0	84	0	23
	or more samples (routine, repeat or hiturb) per month.	749989	NR	NR	0	84	0	24
	Desitive F. Coli constituted by a positive total colife						0	25
iorm repeat sample	Positive E. Coli result followed by a positive total colifo	740090	ND	ND	0	04	0	26
Coli recest comple	Pacifive total coliform recult followed by a positive E. C	749989	NR	NR	0	84	0	27
Con repeat sample	Positive total coliform result followed by a positive E. C	749989 749989	NR NR	NR NR	0	84 84	0	28
		749989	NR	NR	0	84	0	29
		149909	INEX	INIX		04	0	30
					181		12,834	31 OT
			30	No. Days:	6.03		427.80	TOT
	Date: 7-1-05					Til,		VG.

Title: Water Systems Supervisor

Certification No. NY0031941

6/30/2005 Pump Data

MONTHLY GALLONAGE REPORT JUNE2005.XLS

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total	
1	0	121	744	0	669	0	1,534	1 124 112 1 20
2	0	123	839	0	732	0	1,694	
3	0	155	750	0	662	0	1,567	0
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
6	0	547	2,471	192	2,511	29	5,750	
7	Ő	181	946	0	970	0	2,097	
8	0	241	878	0	909	3		
	0	and the second sec	A Desired and a second s	+ 1	a fin in the second s	And the second s	2,031	
9		204	894	0	227	774	2,099	
10	0	308	931	0	0	1,125	2,364	an oralisation and
11	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	
13	0	775	2,952	0	0	3,225	6,952	
14	0	517	824	0	64	1,359	2,764	
15	0	228	175	0	864	1,443	2,710	
16	0	127		0	279	1,492	1,914	
17	0	136	931	0	0	890	1,957	
18	0	0	0	0	0	030	1.337	
	0	0	·· 0		0			
19	•	-	•	•	<u> </u>	•	-	—
20	. 0.	188	2,513	0	0	2,405	5,106	
21	0	121	820	0	641	89	1,671	
22	· · · · · · · · · · · · · · · · · · ·	81	835	0	758	0	1,674	
23	0	14	957	0	809	0	1,780	
24	0	82	801	0	751	0	1,634	
25	0.	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	
27	0	519	2,639	0	2,302	Õ	5,460	
28	Ō	187	835	0	837	0	1,859	
29	0 0	322	1,132	0	1,230	0	2,684	
30	0	260	1,076	. 0	1,030	0	2,366	
31			1,070	0	1,030 0	0	2,300	
	0	0					• •• • • • • • • • • • • •	
Total	0	5,437	24,959	192	16,245	12,834	59,667	
			Totalizer		Totalizer		Total(x1,000)	
			This Month		Last Month	· · · · · · · · · · · · · · · · · · ·	Gallons	
		Well 4	1,648,622		1,648,622		0	
		Well 6	555,191		549,754		5,437	
					·		· · · •	•
		Well 7	1,714,296		1,689,337		24,959	•
						· -		
		Well 10	771,331		771,139		192	
		Well TO	11,001		171,100	· ·	102	
			050 007		040.000	• • •	40.045	
		Well 11	659,207		642,962	·	16,245	
		Well 12	749,989		737,155	•••••	12,834	
GS Water	Supply Meter	···· ·	550,047	· · · · ·	538,011		12036.00	
	·							
Aedical Rea	actor - Well 1	05	0		0		0.00	
Siology Build	ding - Well 9	· ·	679,277	· · · ·	679,277		0.00	

ATTACHMENT II

Brookhaven National Laboratory

Potable Water Supply

June 2005 Biweekly 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 June 2005

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (µmhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	6/2/05	7.7	53	144	ANR	ANR
WTP	6/9/05	7.8	57	152	ANR	ANR
WTP	6/14/05	7.7	56	140	ANR	ANR
WTP	6/16/05	7.7	58	155	ANR	ANR
WTP	6/21/05	7.9	57	148	ANR	ANR
WTP	6/23/05	7.7	55	149	ANR	ANR
WTP	6/28/05	7.7	56	148	ANR	ANR
WTP	6/30/05	7.6	56	147	ANR	ANR
Well 11	6/21/05	6.4	54	134	ANR	ANR
Well 11	6/23/05	6.3	55	135	ANR	ANR
Well 11	6/28/05	6.2	55	143	ANR	ANR
Well 11	6/30/05	6.2	55	163	ANR	ANR
Well 12	6/9/05	6.5	56	151	ANR	ANR
Well 12	6/14/05	7.5	56	150	ANR	ANR
Well 12	6/16/05	8	56	215	ANR	ANR
Well 12	6/30/05	7.2	55	184	ANR	ANR

ANR- Analysis Not Required

NR- Not Reported

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

June 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule

Monitoring Data and Bacteriological Analyses for the BNL Distribution System

Attachment III

June 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data Table II - Maximum Residual Disinfectant Level (MRDL) Compliance

					Total	Residual (Chlorine (1	ng/L)				
Location	July 04	Aug. 04	Sept. 04	Oct. 04	Nov. 04	Dec. 04	Jan. 05	Feb. 05	Mar. 05	Apr. 05	May 05	June 05
Bldg. 49 Water Tower	0.8	1.0	0.7	0.8	0.8	0.5	0.7	2.0	0.9	0.7	0.9	0.9
Bldg. 640 Water Tower	0.5	0.5	0.3	0.6	0.5	0.5	0.6	0.6	0.9	0.8	0.9	1.5
Bldg. 363 Apt. Laundry	0.6	0.5	0.6	0.5	0.5	0.4	0.6	0.7	0.9	0.7	0.7	0.7
Bldg. 1005 RHIC	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.6	1.1	0.7	1.0	1.2
Bldg. 930 LINAC	0.8	NS	0.9	NS	0.8	NS	0.6	NS	1.0	NS	0.8	NS
Bldg. 725 NSLS	NS	0.9	NS	0.7	NS	0.5	NS	0.7	NS	1	NS	1.3
Bldg. 490 Outpatient Clinic	0.8	NS	0.7	NS	0.7	NS	0.7	NS	0.5	NS	1.0	NS
Bldg. 490 Block 11	0.6	NS	0.3	NS	0.8	NS	0.6	NS	0.4	NS	0.3	NS
Bldg. 490 Block 1 ACF	NS	0.4	NS	0.8	NS	0.5	NS	0.5	NS	0.3	NS	0.6
Bldg. 490 Block 4 MRC	NS	0.9	NS	0.7	NS	0.5	NS	0.7	NS	0.8	NS	1.1
Monthly Average	0.7	0.7	0.6	0.7	0.7	0.5	0.6	0.8	0.8	0.7	0.8	1.0

NA - Not Applicable

NS- Not Scheduled for sampling

Running Annual Average (mg/L)

Average (mg/L)0.7MRDL (mg/L)4.0

(Total Residual Chlorine)

H2MLAB

Point No : 094-273

Location : B-49 Water Tower

H2M LABS, INC.

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

LABORATORY RESULTS

Client ID.: 19608-001

Lab No. : 0506117-001A

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

70 Bell Ave. Upton, NY 11973 Attn To : Marcia Allocco Federal ID 5111891 Collected : 6/3/05 11:02:00 AM

Received : 6/3/05 3:00:00 PM Collected By : CLIENT

Copy : Original

CC

Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	Limit	Method Number	Analyzed
Total Coliform	Negative	•	1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	0.9		1	mg/L		M4500-CI G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s). Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted. D.F. = Dilution Factor

Joan M. Slavin

Laboratory Manager

Page 1 of 8

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Date Reported : 6/29/05

5111891

; 6/3/05 9:00:00 AM

; 6/3/05 3:00:00 PM

H2MLAB

H2M LABS. INC. 575 Broad Hollow Road, Melville NY 11747

(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID#10478

Marcia Allocco

LABORATORY RESULTS

Lab No. : 0506117-002A

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

Client ID.: 19608-002

Point No: 076-408 Location: B-640 Water Tower

Collected By : CLIENT Copy : Original

70 Bell Ave.

Attn To :

Federal ID

Collected

Received

Upton, NY 11973

CC

Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Method Number	Analyzed
Total Coliform	Negativ	e	1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	1.5		1	mg/L		M4500-CI G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s). Result(s) flagged with * Exceed Regulator Exceed Regulatory Limit(s). Limit noted. D.F. = Dilution Factor

Date Reported :

6/29/05

Joann M. Alavin

Laboratory Manager

H2M LABS, INC. 575 Broad Hollow Road, Metvile NY 11747

(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Client ID. : 19608-003

Lab No. : 0506117-003A

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

Routine

Brookhaven National Lab.-BNLM 70 Bell Ave. Upton, NY 11973 Attn To: Marcia Allocco Federal ID 5111891 Collected : 6/3/05 10:05:00 AM Received : 6/3/05 3:00:00 PM Collected By : CLIENT Copy : Original

CC

Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	Units	<u>Limit</u>	Method Number	Analyzed
Total Coliform	Negativ	/e	1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	0.7		1	mg/L		M4500-CI G	06/03/2005

Point No : 109-19

Location : B-363 Apt.Laundry

Result(s) reported meet(s) Regulatory Limit(s). Result(s) flagged with * Exceed Regulatory Limit(s). Limit noted. D.F. = Dilution Factor

Date Reported :

6/29/05

Joan M. Slavin

Laboratory Manager



(631) 694-3040 . FAX: (631) 420-8436 NYSDOHID#10478

LABORATORY RESULTS

Lab No. : 0506117-004A

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

Client ID. : 19608-004

70 Bell Ave. Upton, NY 11973 Attn To : Marcia Allocco Federal ID 5111891 Collected : 6/3/05 9:20:00 AM Point No : 045-12 Received : 6/3/05 3:00:00 PM Location : B-1005 RHIC Collected By : CLIENT Copy : Original CC

Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Method Number	Anaiyzed
Total Coliform	Negative	e	1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	1.2		1	mg/L		M4500-Cł G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s). Result(s) flagged with _____ Exceed Regulatory Limit(s). Limit noted D.F. = Dilution Factor 6/29/05

Date Reported :

Joann M. Slavin

Laboratory Manager



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

LABORATORY RESULTS

Lab No. : 0506117-005A

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

Client ID. : 19608-005

70 Bell Ave. Upton, NY 11973 Attn To : Marcia Allocco Federal ID 5111891 Collected : 6/3/05 10:45:00 AM Point No: 075-602 ; 6/3/05 3:00:00 PM Received Location : B-725 NSLS Collected By : CLIENT Copy : Original CC

Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	Units	<u>Limit</u>	Method Number	Analyzed
Total Coliform	Negative	9	1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	1.3		1	mg/L		M4500-CI G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s). Result(s) flagged with 👷 Exceed Regulatory Limit(s). Limit noted D.F. = Dilution Factor 6/29/05

Date Reported :

Joann M. Main

Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

Client ID.: 19608-006

Lab No. : 0506117-006A

Point No: 084-69

Location : B-490 Block 1 ACF

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

Routine

Upton, NY 11973 Attn To : Marcia Allocco Federal ID 5111891

70 Bell Ave.

 Collected
 : 6/3/05 1:05:00 PM

 Received
 : 6/3/05 3:00:00 PM

 Collected By
 : CLIENT

Copy : Original

CC

Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Limit	Method Number	Analyzed
Total Coliform	Negati	<i>r</i> e	1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent	•	1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	0.6		1	mg/L		M4500-CI G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s). Result(s) flagged with 👷 Exceed Regulatory Limit(s). Limit noted. D.F. = Dilution Factor

Joan M. Slavin

6/29/05

Total Residual Chlorine

H2M LABS, INC.

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

		LAE					
Brookhaven National LabBNLM 70 Bell Ave. Upton, NY 11973 Attn To: Marcia Allocco					7-007A	Туре	ele Information : Potable Water : Distribution Routine
Federal ID 5111891 Collected : 6/3/05 1:00:00 PM Received : 6/3/05 3:00:00 PM Collected By : CLIENT Copy : Original CC : CLIENT	Point No : Location :	: 084-68 B-490 Bloc	* 4 MR		nt ID. : 19608-0	07	
Parameter(s) Total Coliform E_Coliform	<u>Results</u> Negati Absent		<u>D.F.</u> 1 1	<u>Units</u>	<u>Limit</u> Negative Absent	Method Number M9223 M9223	Analyzęd 06/04/2005 11:30 AM 06/04/2005 11:30 AM

1

mg/L

1.1

Result(s) reported meet(s) Regulatory Limit(s). Result(s) flagged with D.F. = Dilution Factor Date Reported : 6/29/05

Joann M. Slavin

M4500-Ci G

06/03/2005

Laboratory Manager

Total Residual Chlorine

06/03/2005

M4500-CI G

H2M LABS, INC. 575 Broad Holow Road, Melvile NY 11747

(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

		LABO	RAT	FORY R	ESULTS		
Brookhaven National LabBNLM 70 Bell Ave. Upton, NY 11973 Attn To: Marcia Allocco	Lab No. : 0506117-013A						nple Information E : Potable Water in : Distribution Routine
Federal ID 5111891 Collected : 6/3/05 10:45:00 AM Received : 6/3/05 3:00:00 PM Collected By : CLIENT Copy : Original CC	Point No: 07 Location: B-			Clien	it ID. : 19608-0 [.]	14	
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Method Number	Analyzed
Total Coliform E_Coliform	Negative Absent		1 1		Negative Absent	M9223 M9223	06/04/2005 11:30 AM 06/04/2005 11:30 AM

1

mg/L

1.3

Result(s) reported meet(s) Regulatory Limit(s). Result(s) flagged with <u>*</u> Exceed Regulatory Limit(s). Limit noted. D.F. = Dilution Factor

Date Reported :

6/29/05

Joann M. Slavin

Laboratory Manager