

Environmental Services Division



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August 7, 2001

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 July 2001

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2001 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 July 2001.

Attachment II: July 2001 Biweekly Water Quality Monitoring Data for BNL

Potable Water Wells and BNL Distribution System.

Attachment III: 2001 Second Quarter Sr-90 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.

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

Sincerely,

Lori Cunniff, CEP Division Manager

LEC/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.01

ATTACHMENT I

Brookhaven National Laboratory Potable Water Supply

Monthly Bacteriological and Operational Reports for July 2001

WATER SYSTEMS OPERATION REPORT

JBLIC	WATER	SUPPLY PF	ROTECTION		r			
PRO	OGRAM C	ODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JULY	2001
LOCA	TION: \	Water Treat	ment Facilit	у				
					Did an em	nergency occur	in any part of the water system? YES	NO X
Sour	ce: Groui	nd Water				Does the system	em have a chlorination waiver?	NO X
T		CHLORINA	TION		рН			
F	Treated	Liquid Sodium I		Free Cl2	Lime	Totalizer		
y of	Water	Gallons	Ci2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500	
onth	K Gals	120 -	per 24hrs	mg/l	Hydroxide	12338058		
1	0						Number of routine samples	4
2	2,455	101 -	19	0 97	7.3	12340513	(Must collect a minimum of 5 routine samples the month follow	ing
3	69	100+100	1	0.92	73	12340582	a repeat sample collection)	
4	0						•	
5	2,675	180	20	0.8	8,1	12343257	Number of actual routine samples	7_
6	1,447	170	10	0.7	8	12344704		
7	0						Does a M&AR violation exist? YES	NO X
8	0							
9	3.923	135	35	0.8	78	12348627		
10	1 370	120	15	1,1	7.8	12349997	If yes, check reason's below.	
11	1,364	110	10	0.67	78	12351361		
12	1.372	95	10	0.61	7.7	12352733	Actual number of samples fewer than required.	
13	1,365	80	15	0.53	7.9	12354098		
14	0				<u> </u>		Failure to analyze for E. Coli if there was a positive resu	ilt for
15	0						total coliform from routine, repeat of high turbidity sample.	
16	4,172	42+158	38	0.7	78	12358270		
17	1,351	189	11	0 82	78	12359621	Failure to analyze repeat samples.	
18	1,302	180	9	8.0	7.9	12360923		
19	1,303	169	11	1.1	7.8	12362226	Does an MCL violation exist? YES	NO X
20	1,376	159	10	0.72	7.8	12363602		
21	0	,					If yes, check reason(s) below.	
22	0					ļ		
23_	4,105	135	24	0.95	7.8	12367707	Two or more positive total coliform samples for system	s collecting 40
24	1.370	125	10	0.87	8	12369077	or more samples (routine, repeat or hiturb) per month.	
25	1,401	110	15	0.63	. 7.8	12370478	1	
26	1,110	100	10	0.25	7.9	12371588	Positive E. Coli result followed by a positive total colifor	m repeat sample
27	1,353	90	10	0 96	8	12372941	-	
28	(0	<u> </u>	-	4		Positive total coliform result followed by a positive E. C	oli repeat sample
29	(ļ			-	
30	4.07	1 60	30	0.74	7.4	12377012		
31	1,36	1 50	10	0.7	7.1	12378373		
тот	40,31	5	323			1	1	
AVG.	1300.4	8	10.42	No. Days	: 31			
1	Reported by	20	Post)			_	Date: 8-2-8/	
		184 - 4 C	vstems Su	nonvisor			Certification No. NY0031941	

PF	OGRAM (CODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JULY	2001
_00	ATION:	WELL NO	. 4					
			•		Did an en	nergency occur	in any part of the water system?	NO C
Sou	rce: Grou	ınd Water				Does the syst	em have a chlorination waiver? YES	NO i
		CHLORIN	ATION		pН			
į	Treated	Liquid Sodium	Hypochlorite	Free CI2	Lime	Totalizer		
y of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500	
onth	K Gals	130	per 24hrs	mg/l	Hydroxide	1479844		, (
1_	0						Number of routine samples	4
2	9	130	0	NR	NR	1479844	(Must collect a minimum of 5 routine samples the month f	ollowing
3	0	130	0	NR	NR	1479844	a repeat sample collection)	
4	0							7
5	0	130	0	NR	NR	1479844	Number of actual routine samples	
6	0	130	0	NR	NR	1479844	Does a M&AR violation exist? YES	NO C
7 —-	0				 	 	Does a Maar Violation exist?	
<u> </u>	0			110	ND	1470044		
9	0		0	NR	NR	1479844	If you shoeld reason's holour	
0	0		0	NR NR	NR NR	1479844 1479844	If yes, check reason's below.	
1	0	130	0	NR NR	NR	1479844	Actual number of samples fewer than required.	
3	0		0	NR	NR	1479844	, lotted number of our people states and it requires.	
14	0		 			7,1,5	Failure to analyze for E. Coli if there was a positive	result for
<u></u> -	0						total coliform from routine, repeat of high turbidity sam	ple.
16	0	130	0	NR	NR	1479844		
17	0	130	0	NR	NR	1479844	Failure to analyze repeat samples.	
18	0	130	0	NR	NR	1479844		
19	0	130	0	NR	NR	1479844	Does an MCL violation exist? YES	NO
20	0	130	0	NR	NR_	1479844		
21	0						If yes, check reason(s) below.	
22	0		 	ļ	ļ			
23	0	130	0	NR	NR	1479844	Two or more positive total coliform samples for sy	stems collecting 40
24	0	130	0	NR	NR	1479844	or more samples (routine, repeat or hiturb) per month,	
25	0		0	NR	NR NR	1479844		-116
26	0	 	0	NR	NR	1479844	Positive E. Coli result followed by a positive total c	olitorm repeat sample
27) <u> </u>		0 -	NR	NR	1479844	Decitive total colders requilifelies and have a William	E Coli rancet com:
28_	9		-	 			Positive total coliform result followed by a positive	E. Oui repeat sample
29_	9	 		ND	NID.	1479844		
30			0	NR NR	NR NR	1479844		•
31 OT			0	INK	·	14730441		
		<u>'</u>	+	+		1		

PF	OGRAM (ODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JULY	′	2001	
LOC	ATION:	WELL NO.	6			-				
					Did an en	nergency occur	in any part of the water system?	YES	ΝО	\underline{V}
Sou	ırce: Grou	nd Water				Does the syst	em have a chlorination waiver?	YES	NO	<u>V</u>
		CHLORINA	TION		рН					
	Treated	Liquid Sodium	Hypochlorite	Free Cl2	Lime	Totalizer				
ay of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500			
nonth	K Gals	86	per 24hrs	mg/l	Hydroxide	181114			* /	
1	0						Number of routine samples		4	
2	1 490	70	16	0.01	61	182604	(Must collect a minimum of 5 routine samples t	he month follow	ing	
3	655	60+140	10	0.01	6	183259	a repeat sample collection)			
4	0					 			7	
5	1,694	175	25	0.1	6	184953	Number of actual routine samples	_		
6	906	160	15	0.2	6	185859				1/
7	0		<u> </u>				Does a M&AR violation exist?	YES	NO _	<u>v</u>
8	0									
9	2,501	110	50	0.06	6.3	188360				
10	758	97+93	13	0.02	6	189118	If yes, check reason's below.			
11	881	178	22	0 03	6.2	189999				
12	798	165	13	0.34	6.1	190797	Actual number of samples fewer than re	equired.		
13	883	146	9	0.04	6.3	191680				
14	0		 		 		Failure to analyze for E. Coli if there was		It for	
15	0		 	ļ	 	 	total coliform from routine, repeat of high tur	bidity sample.		
16	2,353	100	46	0.08	6.2	194033				
17	844		15	0.02	6.2	194877	Failure to analyze repeat samples.			
18	944		20	0.02	6.3	195821 196651	Does an MCL violation exist?	YES	МО	,
19	830		15	<u> </u>		· · · · · · · · · · · · · · · · · · ·	des an mor violation exist:		,,,,	ν
20	781		15	0.01	6.2	197432	If yes, check reason(s) below.			
21	0		 				ii yes, check reason(s) below.			
22	0 700		55	0 17	6.3	200195	Two or more positive total coliform sam	nles for systems	s collection	4 0
23	2,763		 	0.1	6.3	201168	or more samples (routine, repeat or hiturb) per		. sonooniy	
24	973	<u> </u>	, 15	0.1	6.3	201709	campios (roduire, repeat or findib) per			
25	541	† — — — — — — — — — — — — — — — — — — —	17	0.03	6.3	202586	Positive E. Coli result followed by a posi	tive total colifor	m repeat s	amole
26	931	<u> </u>	15	0.03	6.3	203517	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
27	931	 	1		1 - 3 -	200017	Positive total coliform result followed by	a positive E. Co	oli repeat s	amole
28	1	<u> </u>	 	 	1.					,-•
29	2,900	 	55	0.03	62	206417				
30	2,900	i -	10	0.7	5,8	207334				
31 TOT			459	† - 	 					
AVG	1	<u> </u>	14.81	No. Days:	31	1				
		<u> </u>			<u> </u>		- 01			
	Reported by:	200	Lazy				Date: 8-2-8 (-		

WATER SYSTEMS OPERATION REPORT

0	101.10	MATED	SUPPLY PROTECTION	i .
	1001	. VVAILER	SUPPLIF EUTPULION	

Title: Water Systems Supervisor

Pf	OGRAM (CODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JULY 200	01
LOC	ATION:	WELL NO.	. 7					
					Did an em	nergency occu	r in any part of the water system? YES	NO V
Sou	ırce: Grou	ınd Water				Does the sys	tem have a chlorination waiver?	NO i
		CHLORINA	ATION		рН			
	Treated	Liquid Sodium		Free Cl2	Lime	Totalizer		
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer	Population Served 3,500	
month	K Gals	109	per 24hrs	mg/l	Hydroxide	527147		
1	0				<u> </u>		Number of routine samples	
2	1 950	80+125	39	0 01	6.1	528997	(Must collect a minimum of 5 routine samples the month following	
3	1 435	180+20	5	0.01	6	530432	a repeat sample collection)	
4	0				ļ			7
5	2,206	168	32	0,1	6	532638	Number of actual routine samples	
6	1,385	142	26	9.2	6	534023		_
7	0				 		Does a M&AR violation exist? YES	NO
8	9		 					
9	3.730		67	0.06	6.3	537753	w	
10	1 316		26	0.02	6	539069	• •	
11	1.300		23	0.03	6.2	540369		
12	1.262		22	0.34	6.1	541631	Actual number of samples fewer than required.	
13	1,331	130	25	0.04	6.3	542962	Failure to analyze for E. Coli if there was a positive result for	
14	0		 		 		lotal coliform from routine, repeat of high turbidity sample.	
15	2.790		70	0.08	62	546742		
16 17	3,780 1,299		20	0.02	62	- 548041		
18	898		20	0 02	6.3	548939		
19	1,140	 	26	0.02	6.2	550079	4	NO C
20	1,292	130	29	0.01	6.2	551371		
21	0						If yes, check reason(s) below.	
22	0							
23	3,903	45	85	0.02	6.3	555274	Two or more positive total coliform samples for systems colle	ecting 40
24	1,297	30+180	15	0.1	63	556571	or more samples (routine, repeat or hiturb) per month.	
25	1,252	185	25	0.28	6.3	557823		
26	1,170	160+55	25	0 03	6.3	558993	Positive E. Coli result followed by a positive total coliform rep	eat sample.
27	1,283	190	25	0.2	6.3	560276		
28		<u> </u>				<u> </u>	Positive total coliform result followed by a positive E. Coli rep	eat sample.
29				<u> </u>	 	<u> </u>	1	
30	3,900	120	70	0.03	63	564176		-
31	1,336	100+60	20	0.7	58	565512		
тот	38,365	5	695	 		1	-	
AVG.			22.42	No. Days:	31	ــــــــــــــــــــــــــــــــــــــ	1	
	Reported by:	Ja	plas	1/		_	Date: 8-7-8/	

Certification No. NY0031941

PR	OGRAM	CODE 169	STATION	11515100	SUFFO	LK COUNTY	REPORTING PERIOD: JULY	2001
100	ATION:	WELL NO	. 10		·	······································		
					Did an en	nergency occur	in any part of the water system? YES	NO U
Soi	rce: Grou	ınd Water				Does the syst	em have a chlorination waiver?	NO 1
	-	CHLORIN		Free CI2	pH	Totalizer		
y of	Treated Water	Liquid Sodium Gallons	Ci2 use	Residual	Lime Sodium	Daily Totalizer	Population Served 3,500	
onth	K Gals	58	per 24hrs	mg/l	Hydroxide	764101		
1	0						Number of routine samples	4
2	Q	58	0	NR	NR	764101	(Must collect a minimum of 5 routine samples the month)	following
3	0	58	0	NR	NR	764101	a repeat sample collection)	
4	0							
5	0	58	0	NR	NR	764101	Number of actual routine samples	7
6	0	58	0	NR	NR	764101		
7	0						Does a M&AR violation exist? YES	NO V
8	0							
9	0	58	0	NR	NR	764101		
10	0	58	0	NR	NR	764101	If yes, check reason's below.	
11	0	58	0	NR	NR	764101		
12	0	58	0	NR	NR	764101	Actual number of samples fewer than required.	
13	95	58	0	NR	NR	764196		
14	0						Failure to analyze for E. Coli if there was a positive	result for
15	0		<u> </u>		·	 	total coliform from routine, repeat of high turbidity same	ple.
16	0	58	0	NR	NR	764196		
17	0	58	0	NR	NR	764196	Failure to analyze repeat samples.	
18	0	58	0	NR	NR	764196		,
19	0	58	0	NR	NR	764196	Does an MCL violation exist? YES	_ NO <u>(</u>
20	0	58	0	NR	NR	764196	-	
21	0		 	<u> </u>	<u> </u>		If yes, check reason(s) below.	
22	0	ļ	-		ļ			
23	47	58	0	NR	NR	764243	Two or more positive total coliform samples for sy	stems collecting 40
24	0		0	NR	NR	764243	or more samples (routine, repeat or hiturb) per month.	
25	0		0	NR	NR	764243	<u> </u>	
26	0	·	0	NR	NR	764243	Positive E. Coli result followed by a positive total c	oliform repeat sample
27	0		 	NR	NR	764243		- 0.11
28	0		+		<u> </u>		Positive total coliform result followed by a positive	E. Coli repeat sample
29	0			 	h:5	704040		
30	0	 	0	NR	NR NB	764243		
31	0		0	NR NR	NR	- 764243		
TOT	142		0 ·	No Dece	24	1		
AVG.	4 58		0.00	No. Days:	31			
	Reported by	Da,	Ross				Date: 8-2-3/	

BROOKHAVEN NATIONAL LABORATORY WATER SYSTEMS OPERATION REPORT PUBLIC WATER SUPPLY PROTECTION STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD: JULY 2001 PROGRAM CODE 169 LOCATION: WELL NO. 11 Did an emergency occur in any part of the water system? Does the system have a chlorination waiver? Source: Ground Water CHLORINATION pН Liquid Sodium Hypochlorite Free CI2 Totalizer _ Lime Treated Population Served 3,500 Day of Water Gallons Residual Sodium Daily Totalizer per 24hrs 343499 Hydroxide month K Gals 168 mg/l Number of routine samples 1 7.6 345101 (Must collect a minimum of 5 routine samples the month following 1 602 60+140 28 0.3 0.97 7.6 346043 a repeat sample collection) 3 942 190 10 0 7.7 346524 Number of actual routine samples 12 481 0 5 190 346873 349 NR NR 6 Does a M&AR violation exist? 7 ٥ 8 0.79 347058 185 9 185 347125 If yes, check reason's below. 67 10 7.2 - 347209 185 0 0.25 11 84 62 0 7 347271 Actual number of samples fewer than required. 12 185 347330 5 1.1 7.1 13 59 180 _Failure to analyze for E. Coli if there was a positive result for 0 14 total coliform from routine, repeat of high turbidity sample. 0 15 NR 347577 247 NR 179 16 NR 347670 Failure to analyze repeat samples. 17 93 175 4 NR 5 NR 348251 170 581 18 Does an MCL violation exist? 348333 YES NR 82 169 1C. NR 348404 71 169 0 NR 20 If yes, check reason(s) below. 21 0 22 0 348559 _ Two or more positive total coliform samples for systems collecting 40 155 168+10 NR NR 23 7 348638 or more samples (routine, repeat or hiturb) per month. 0.45 0 79 178 24 168 7.2 348806 177 1.2 2:5 7.5 349367 Positive E. Coli result followed by a positive total coliform repeat sample. 561 166 11 1.3 2:5 428 160 1.2 7.6 349795 27 Positive total coliform result followed by a positive E. Coli repeat sample. 28 ol 29 350299 504 10 0.32 78 30 75 350531 2 232 31 TOT 7.032 226.84 AVG. Reported by: A Wiscon

Title: Water Systems Supervisor

Date. 8-2-8 /

Certification No. NY0031941

WATER SYSTEMS OPERATION REPORT

Number of routine samples Must collect a minimum of 5 routine samples the month following September Septem					1	ROTECTION	SUPPLY PF	C WATER	PUBLI
Did an emergency occur in any part of the water system? YES NO C	2001	REPORTING PERIOD: JULY	LK COUNTY	SUFFO	11515100	STATION	ODE 169	OGRAM C	PR
CHLORINATION						12	WELL NO.	ATION:	LOC
CHLORINATION	NO C	r in any part of the water system?	nergency occur	Did an em					
Treated Liquid Sodium Prypochloride Free Cl2 Lime Totalizer Day of Veater Gallons Cl2 use Residual Sodium Daily Totalizer Day of Veater Gallons Cl2 use Residual Sodium Daily Totalizer Day of Veater Gallons Cl2 use Residual Sodium Daily Totalizer Daily	NO C	stem have a chlorination waiver?	Does the syst				nd Water	rce: Groui	Sou
Day of Water Gallons Ct2 use Residual Sodium Day Totalizer Population Served 3,500				pН		TION	CHLORINA		
Month K Gals 90			Totalizer	Lime	Free CI2	typochlorite	Liquid Sodium F	Treated (
1		Population Served 3,500	Daily Totalizer	Sodium	Residual	CI2 use	Gallons	Water	Day of
2 3.451 32+158 58 0.46 7.5 316018 3 1,468 178 12 0.57 7.7 317485 4 0 0 5 565 170 8 0.4 7.8 318550 7 0 0	16	·	312527	Hydroxide	mg/l	per 24hrs	90	K Gals	month
1,468	7	Number of routine samples						0	1
4 0 0 5 565 170 8 0.4 7.8 318051 Number of actual routine samples 7 0 0	pning	(Must collect a minimum of 5 routine samples the month follow	316018	7.5	0 46	58	32+158	3,491	2
8		a repeat sample collection)	317486	7.7	0.57	12	178	1,468	3
8	· ·								4
8		Number of actual routine samples	318051	7.8	04	8	170	565	5
8	NO /	Dose a MAAB violation exist?	318560	7.8	0.5	10	160		
9	NO	Does a Waxar Violation exist:							
10			210000	7.4	0.74			· · · · · · · · · · · · · · · · · · ·	
11 632 141 10 0.44 7.1 319847 12 352 138 3 0.36 7.1 320199 13 500 130 8 0.37 7.2 320699 14 0									
12 352 138 3 0.36 7.1 320199 Actual number of samples fewer than required. 13 500 130 8 0.37 7.2 320699 14 0		1		j					1
13 500 130 8 0.37 72 320699 14 0		1							
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 for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample. Failure to analyze repeat samples. Failure to analyze repeat samples. Failure to analyze repeat samples. Pailure to analyze repeat samples. Failure to analyze repeat samples. If yes, check reason(s) below. If yes, check reason(s) below.		1		-					
total coliform from routine, repeat of high turbidity sample. 16	ull for	1				<u> </u>	150		
16		†							
17 260 120 2 0.3 7.5 321461 Failure to analyze repeat samples. 18 274 110 10 1 7.4 321735 19 363 101 9 0.95 7 322098 Does an MCL violation exist? YES NO L 20 397 95 6 NR NR 322495 21 0			321201	7.4	0.25	8	122		
19 363 101 9 0.95 7 322098 Does an MCL violation exist? YES NO L 20 397 95 6 NR NR 322495 21 0		Failure to analyze repeat samples.	321461	7.5	0.3	2	120		
20 397 95 6 NR NR 322495 21 0		5	321735	74	1	10	110	274	18
21 0 If yes, check reason(s) below. 22 0	NO U	B Does an MCL violation exist? YES	322098	7	0 95	9	101	363	19
22 0		5	322495	NR	NR	6	95	397	20
23 693 82 13 NR NR 323188Two or more positive total coliform samples for systems collecting 40		If yes, check reason(s) below.				<u> </u>		0	21
23200		-		<u> </u>				0	22
24 612 82 0 0.6 7.4 323800 or more samples (routine, repeat or hiturb) per month.	is collecting 40	Two or more positive total coliform samples for system	323188	NR	NR	13	82	693	23
		1		 			82	612	24
25 333 82 0 0.4 7.5 324133				<u> </u>	 			333	25
26 653 80 2 1 7.8 324786Positive E. Coli result followed by a positive total coliform repeat sample	rm repeat sample.				 	 			
27 161 80 0 NR NR 324947 Positive total coliform result followed by a positive E. Coli repeat sample	Oli reneat sample	- †	324947	NR _	NR	0			
	оптервая заприе.	- rositive total comonn result followed by a positive 2. o	-	 					
29 0 30 7 80 0 0.45 7.5 324954		4	324954	7.5	0.45		 		
30 2005									
31 0 80+120 0 0.85 7.8 324954 TOT 12,427 168		1	32.554		""			 	
AVG. 400.87 5.42 No Days: 31		1		31	No Days:	 		 	
		- -/ 7 0,							
Reported by. Tale: 8-2-01		Date: 8 - 2 - 0/	_			(flor	Xa	Reported by.	,
Title Water Systems Supervisor Certification No. NY0031941		Certification No. NY0031941	_		ervisor	stems Sup	Water Sys	Title ⁻	

MONTHLY GALLONAGE REPORT 2001july

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total	
1	0	0	0	0	0	0		
2	0	1,490	1,850	0	1,602	3,491	_	
3	0	655	1,435	0	942	1.468	4 500	
4	0	0	0	0	0			
5	0	1,694	2,206	0	0 481	565 500	4,946	
6	0	906	1,385		349	509	3,149	
7	0	0			0		0,149	
8	0	0	0		0	0		
9	0	2,501	3,730		185		6,844	
10		758	1,316	0	67	42 8		
11		881	1,300	0	84		2,368	
12	. 0	798	1,262			632	2,897	-
13	. 0	883	1,331	·	62	352	2,474	
				.95	59	500	2,868	
14	0	0	0	0_	0	0	0	
15 16	0	0	0 700	0	0	0	0	
	0	2,353	3,780	0	247	502	6,882	
17	0	844	1,299	0	93	260	2,496	
18	0	944	898	0	581	274	2,697	
19	0	830	1,140:	0	82	363	2,415	
20	0	781	1,292	-0	71	397	2,541	
21	0	. 0	0	0	0.	. 0	0	
22	0	0	0	0	0	0		
23	0	2,763	3,903	47	155	693	7,561	
24	0	973	1,297	0	79	612	2,961	
25	0	541	1,252	0	168	333	2,294	
26	0	877	1,170	0	561	653	3,261	
27	0	931	1,283	0	428	161	2,803	
28	0	0	0	0	0	0	0	
29	0	0	0			0	<u> </u>	
30	0	2,900	3,900		504		7,311	
31	0	917	1,336		232	<u>'</u> -	2,485	
Total		26,220	38,365:	142	7,032	12,427	84,186;	
			otalizer		otalizer		otal(x1,000)	
			his Month		ast Month		Gallons	
		Well 4	1,479,844		1,479,844		0	
 					1, 1, 0,044			
		Well 6	207,334		181,114		26,220	
		Well 7	565,512		527,147		38,365	
		Well 10	764,243		764,101		142	
		Well 11	350,531		343,499		7,032	
		Well 12	324,954		312,527		12,427	
AGS Water	Supply Meter		280,387		265,308		15079.00	
Medical Rea	actor - Well 10	5	91,710,910		91,710,910		0.00	
Biology Build	ding - Well 9	. -	6,129,730		6,112,470		17.26	

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

BROOKHAVEN NATIONAL LABI-BINIM

70 BELL AVE. UPTON, NY 11973

Attn To:

BOB LEE

Federal ID

5111891

Collected Received

: 7/12/01 9:40:00 AM ; 7/12/01 2:45:00 PM

Collected By : CLIENT Copies To

: TONY ROSS

LABORATORY RESULTS

Units

Lab No. : 0107365-001A

Sample Information...

Type: Potable Water

Origin: Dist.

Routine

Client ID.: 8445-001

Absent

Point No: 1

Location: B-49 WATER TOWER

Parameter(s)

Total Collform E Coliform

Total Residual Chlorine

Resuits Negative **Absent**

0.7

mg/L

Limit Method Number Negative

M9223 M9223 7/13/01 10:45:00 AM 7/13/01 10:45:00 AM

Analyzed

M4500-CI G 7/12/01

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

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

575 Broad Hollow Road, Metville NY 11747 (631) 694-3040. IFAX: (631) 420-8436 NYSDOM ## 10478

BROOKHAVEN NATIONAL LABI-BALM

70 BELL AVE.

UPTON, NY 11973

Attn To:

BOB LEE

Federal ID

5111891

Collected

: 7/12/01 10:20:00 AM : 7/12/01 2:45:00 PM

Received

Collected By : CLIENT

Copies To

: TONY ROSS

LABORATORY RESULTS

Lab No. : 0107365-002A

Sample Information...

Type: Potable Water

Origin: Dist.

Routine

Client iD.: 8445-002

Point No: 2

Location: B-640 WATER TOWER

						_
Parameter(s)	Results	<u>Units</u>	Llmit	Method Number	Analyzed	-
Total Coliform	Negative .		Negative	M9223	7/13/01 10:45:00 AM	
E_Collform	Absent		Absent	M9223	7/13/01 10:45:00 AM	
Total Residual Chlorine	1.0	mg/L	į	M4500-CI G	7/12/0 1	

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

Result(s) flagged with

Exceed Resultory Limit(s). Limit noted.

Date Reported:

7/30/01

575 Broad Hollow Road, Metville NY 11747 (631) 694-3040. FAX: (631) 420-8436 NYSDO44 #10478

BROOKHAVEN NATIONAL LAB - BY M

70 BELL AVE. **UPTON, NY 11973**

Attn To: **BOB LEE**

Federal ID 5111891

Collected : 7/12/01 10:30:00 AM Received ; 7/12/01 2:45:00 PM

Collected By : CLIENT Copies To : TONY ROSS LABORATORY RESULTS

Lab No. : 0107365-003A

Sample information...

Type: Potable Water

Origin: Dist. Routine

Client ID.: 8445-003

Point No: 3

Location: B-1005 RHIC

Parameter(s)	i # .	Results	Units	<u>Limit</u>	Method Number	Analyzed	
Total Coliform E_Coliform	1 93	Negative Absent		Negative Absent	M9223 M9223	7/13/01 10:45:00 AM 7/13/01 10:45:00 AM	
Total Residual Chlorine		1.0	mg/L		M4500-CI G	7/12/0 1	

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

Date Reported:

7/30/0

Tym Dant

H2M LABS

08/01/2001 10:14

5164208436

(531) 694-3040. FAX: (631) 420-8436 NYSDON

BROOKHAVEN NATIONAL LAB, BNUM

70 BELL AVE. **UPTON, NY 11973**

Attn To:

BOB LEE

Federal ID

5111891

Collected : 7/12/01 9:15:00 AM Received : 7/12/01 2:45:00 PM

Collected By : CLIENT Copies To : TONY ROSS LABORATORY RESULTS

Lab No. : 0107365-004A

Sample Information...

Type: Potable Water

Origin; Dist.

Routine

Client ID.: 8445-004

Point No: 4

ocation: B-363 APT.LAUNDRY

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform E_Coliform	Negative Absent		。 Negative Absent	M9223 M9223	7/13/01 10:45:00 AM 7/13/01 10:45:00 AM
Total Residual Chlorine	0.5	mg/L		M4500-CI G	7/12/01

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

Date Reported:

7/30/01

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040, FAX: (631) 420-8436 NYSDOH 11 # 10478

BROOKHAVEN NATIONAL LAB. EMM

70 BELL AVE. **UPTON, NY 11973**

Attn To:

BOB LEE

Federal ID

5111891

Collected Received

: 7/12/01 12:40:00 PM : 7/12/01 2:45:00 PM

Collected By : CLIENT Copies To

: TONY ROSS

LABORATORY RESULTS Lab No. : 0107365-005A

Sample Information...

Type: Potable Water

Origin: Dist.

Routine

Client ID.: 8445-005

Point No: 5

Location: B-930 LINAC

Parameter(s)

Results Negative Absent

0.6

Units

mg/L

<u>Limit</u> Negative Absent

M9223 . M9223

Method Number

7/13/01 10:45:00 AM 7/13/01 10:45:00 AM

<u>Analyzed</u>

M4500-CI G 7/12/01

Total Coliform E_Coliform Total Residual Chlorina

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

Exceed IR of latory Limit(s). Limit noted.

Date Reported:

7/30/01

5154208436

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

BROOKHAVEN NATIONAL LAB. HILLM

70 BELL AVE.

UPTON, NY 11973

Attn To:

BOB LEE

Federal ID

5111891

Collected Received

; 7/12/01 12:50:00 PM : 7/12/01 2:45:00 PM

Collected By : CLIENT Copies To

: TONY ROSS

LABORATORY RESULTS

Lab No. : 0107365-006A

Sample Information...

Type: Potable Water

Origin: Dist.

Routine

Client ID.: 8445-006

Point No; 6

Location: B-490 OUTPATIENT CLINIC

Parameter(s) Total Coliform

E_Collform Total Residual Chlorine Results Negative Absent

Units Limit Method Number Analyzed Negative M9223 7/13/01 10:45:00 AM Absent M9Z23 7/13/01 10:45:00 AM 0.8 mg/L M4500-CI G 7/12/01

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

Result(s) flagged with

Exceed Regulatory Limit(s). Limit noted.

Date Reported:

7/30/01

Sym Dauth

5164208436

(631) 694-3040, FAX: (631) 420-8436 NYSDOH D#10478

BROOKHAVEN NATIONAL LAB.

70 BELL AVE. **UPTON, NY 11973**

Attn To: BOB LEE

Federal ID

5111891

Collected Received

: 7/12/01 1:10:00 PM ; 7/12/01 2:45:00 PM

Collected By : CLIENT Coples To :TONY ROSS

LABORATORY RESULTS

Lab No. : 0107365-007A

Sample Information...

Ø8

PAGE

Type: Potable Water

Origin: Dist.

Routine

Cilent ID.; 8445-007

Point No: 7

Location: B-490 BLOCK 11

Parameter(s)

Total Coliform

E_Coliform

Total Residual Chlorine

Results

Negative Absent

Units

Negative Absent

Limit

M9223 M9223

Method Number

7/13/01 10:45:00 AM 7/13/01 10:45:00 AM

M4500-CI G

Analyzed

0,6

mg/L

7/12/01

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

Date Reported:

7/30/0

ATTACHMENT II

Brookhaven National Laboratory Potable Water Supply

July 2001 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 July 2001

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (µmhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	7/3/01	7.3	64	153	NR	NR
WTP	7/5/01	8.1	55	138	NR	NR
WTP	7/10/01	7.9	56	135	NR	NR
WTP	7/12/01	7.7	56	131	NR	NR
WTP	7/17/01	7.8	56	124	NR	NR
WTP	7/19/01	7.8	56	129	NR	NR
WTP	7/24/01	8.0	56	123	NR	NR
WTP	7/26/01	7.9	58	133	NR	NR
WTP	7/31/01	7.1	56	122	NR	NR
Well 11	7/3/01	7.6	55	173	NR	NR
Well 11	7/5/01	7.7	55	180	NR	NR
Well 11	7/10/01	7.0	55	229	NR	NR
Well 11	7/12/01	7.0	55	189	NR	NR
Well 11	7/17/01	7.0	56	233	NR	NR
Well 11	7/19/01	7.1	55	218	NR	NR
Well 11	7/24/01	7.0	55	211	NR	NR
Well 11	7/26/01	7.5	55	221	NR	NR
Well 11	7/31/01	7.5	55	198	NR	NR
Well 12	7/3/01	7.7	55	181	NR	NR
Well 12	7/5/01	7.8	55	191	NR	NR
Well 12	7/10/01	7.1	56	164	NR	NR
Well 12	7/12/01	7.1	56	158	NR	NR
Well 12	7/17/01	7.5	56	157	NR	NR
Well 12	7/19/01	7.0	56	156	NR	NR
Well 12	7/24/01	7.4	56	155	NR	NR
Well 12	7/26/01	7.8	56	156	NR	NR
Well 12	7/31/01	7.8	56	212	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

2001 Second Quarter Sr-90 Radiological Analyses for the BNL Potable Water Wells

ATTACHMENT III Table 2 Brookhaven National Laboratory Potable Water Supply

2001 Second Quarter Sr-90 Radiological Analyses for the BNL Potable Water Wells

Summary of Sr-90 Radiological Results for the BNL Potable Water Wells 2001 Second Quarter									
Well ID	Sr-90 pCi/L								
Well # 6	< 0.366								
Well # 7	< 0.497								
Well #7 (Duplicate)	< 0.407								
Well # 11	< 0.394								
Well # 12	< 0.418								

Note: Potable Well #4 was out of service at the time of sampling. Potable Well #10 was shutdown at the time of sampling. This well will not be used very often in the future to help control the g-2 and HFBR tritium plume migration pathways.

44563%

ASL Prefix No.	DQL		BROOKHAVI
21062109		NA'	TIONAL LABORAT

Page _____ of ____

Chain of Custody No.

10501

21062109		NATIONAL LABORATORY Carrier/Waybill #								-			I U	J ()	**					
Requires EDD					SAMPLING CH	IAIN OF CUSTO	DY			P.O. #	men december water				-					
Analysis Requested By			Sampline	Contract	or .	Analytical Laboratory Analysis Requested							7							
Name: D Paquette		Name: ESD Field Sampling			Name: Ge			<u> </u>				T	T	П	T	T	TT		T	
Life: No: 14314	Ext. 7046	Contact:	101010			Address:													į	'
	Dept: ES	Phone:				City:	St:	7	lip:] [
Email Reports	To:	Email/Fax:				Contact:]		-	1					-	
D Paquette		Sampler:	ettier	$L \angle B$	Metz	Phone:							-					1 1		
<u> </u>			Project I	fanager:		Email/Fax:	. Field En	gineer:	٠. ,		i		-			Ipha				
F Wells (Po-	shle	D	Pague	He]								- [
Comments:			0								13		۱	Ę		Nuclide-specific Alpha				
	Sample Informati		····			Addit	onal Sample In	formati	on		- J.	Tribum	Strongille	7	624	ğ l	Metal P.C.Bs		}	
UID TYP Site ID/Bldg/Life #	Depth/RWP	Date	Time	Matrix	Name/Description		Cont.Vol./Unit	Cont. Type	N of Cont	Preservative	₹	F (62	Ž jõ	<u>Έ</u>	+	+	+
1 6 095-400	99-150	6/21/0	0929	w	well #	<u> </u>	48	P	1	HN03					11	\perp				 -
02 e BD-1		6/2/101	_	W	BD-1		42	9	ı	HN03			7	<u> </u>						
02 e BD-1 03 e 056-401 04 e 056400	92-137	- 6/2/10	1330	S	well#	12	4.8	9	1	HNOS			λ	ĸ						
94e 056400				w	well t	L 11	42	ρ	1	HNOS				χ		,		1 1	1	
S C \(\omega \) 2-400	99-150	1/21/0		w	well		41	ρ		HNO3				ζ				\Box		T
5 e 093-400	44-130	612110	1221		well_	4 40	12	╁┺╌	†	1112	+	\vdash	\top	\top		\Box	\top	11		1
				+-+				-	-			+	+	+	+	\sqcap		1		
				1				+	├ ─				+	+		$\vdash \vdash$	+	+		
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		14							<u> </u>	<u> </u>		Ш	_L	_L_	┸┚	$\sqcup \bot$		$\perp \perp$		
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<i>A</i> 17						Signature						Archiv	: ror		<u>r</u>	Months	5			
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Signature Patricia 1)	KI WING					Signature						Rush (7 Days			.□ Otl)		_ays	
ingilature (aux 1 cie 1)	we 107	J Signatur									1					-				



Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company: Brookhaven National Laboratory

Address:

OER

Building 51M

Upton, New York 11973--5000

Contact:

Anna Bou

Project:

Brookhaven ERD Contract

Client Sample ID:

10504-005

44563005 Water

21-JUN-01 13:51 22-JUN-01 09:30

DŁ

Report Date: July 17, 2001

Page 1 of

BRKL02000 BRKL003

Receive Date: Collector:

Qualifier

Matrix: Collect Date:

Sample ID:

Client

COC: 10504 Samp Recv.: 10504 Client Desc.: 093-400

Project:

Client ID:

DF	AnalystDate	Time	Batch	Method
	•			

Parameter Rad Gas Flow

GFPC, Sr90, liquid

Strontium-90

U

0.286

Result

+/-0.220

0.366

pCi/L

LOM1 07/07/01 0748 88996

The following Analytical Methods were performed

Method

Description

RL

0.800

Analyst Comments

Units

1

EPA 905.0

Notes:

The Qualifiers in this report are defined as follows:

DL Failed required detection limit.

Estimated value; the result was greater than the MDA but less than the required detection limit.

Presumptive evidence of the analyte at an estimated quantity.

R The data are unusable (radionuclide may or may not be present).

Undetected; sample result < MDA

UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

Potable Well #6



Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company:

Brookhaven National Laboratory

Address:

Building 51M

Upton, New York 11973--5000

Contact:

Anna Bou

Project:

Brookhaven ERD Contract

Report Date: July 17, 2001

Page

of

Client Sample ID: Sample ID:

Matrix:

Collect Date:

Receive Date: Collector:

Qualifier

10504-001 44563001 Water

21-JUN-01 09:29 22-JUN-01 09:30

DL

Client

Project: Client ID:

BRKL02000 BRKL003

COC: 10504 Samp Recv.: 10504 10504

DF

Client Desc.: 092-400

Parameter Rad Gas Flow

GFPC, Sr90, liquid

Strontium-90

-0.188

Result

+/-0.282

0.800

RL

pCi/L

Units

AnalystDate

Time Batch Method

LOM1 07/07/01 0748 88996

The following Analytical Methods were performed

Method

Description

Analyst Comments

EPA 905.0

Notes:

The Qualifiers in this report are defined as follows:

DL Failed required detection limit.

Estimated value; the result was greater than the MDA but less than the required detection limit.

Presumptive evidence of the analyte at an estimated quantity.

The data are unusable (radionuclide may or may not be present). R

Undetected; sample result < MDA

UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

Potable Well #7



Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company: Brookhaven National Laboratory

Address:

Building 51M

Upton, New York 11973-5000

Contact:

Anna Bou

Brookhaven ERD Contract

Report Date: July 17, 2001

Page 1 of 1

Project:

Client Sample ID:

10504-002 44563002

Client ID:

BRKL02000 BRKL003

Sample ID: Matrix: Collect Date:

Water 21-JUN-01 00:00 COC: 10504 Samp Recv.: 10504

Project:

Receive Date: Collector:

Qualifier

22-JUN-01 09:30 Client

Client Desc.: BD-1

AnalystDate Time Batch Method

Parameter Rad Gas Flow

GFPC, Sr90, liquid

Strontium-90

U -0.0557

Result

+/-0.232

0.407

DL

0.800

RL

pCi/L

Units

LOM107/07/01 0748 88996

The following Analytical Methods were performed

Method

Description

Analyst Comments

EPA 905.0

Notes:

1

The Qualifiers in this report are defined as follows:

DL Failed required detection limit.

Estimated value; the result was greater than the MDA but less than the required detection limit.

JN Presumptive evidence of the analyte at an estimated quantity.

The data are unusable (radionuclide may or may not be present). R

U Undetected; sample result < MDA

UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

Potable Well #7-Dudicate



Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company: Brookhaven National Laboratory

Address: OER

Building 51M

Upton. New York 11973--5000

Contact:

Anna Bou

Project:

Brookhaven ERD Contract

Client Sample ID: Sample ID: Matrix:

Collect Date: Receive Date: Collector:

10504-004 44563004

Water 21-JUN-01 13:37 22-JUN-01 09:30

COC:

Project:

BRKL003 Client ID: Samp Recv.: 10504

Client Desc.: 056-400

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch Method
Rad Gas Flow									

GFPC, Sr90, liquid

Strontium-90

U -0.0321 +/-0.226

0.394

0.800

pCi/L

LOM1 07/07/01 0748 88996

Potable Weel #11

Page 1 of 1

Report Date: July 17, 2001

BRKL02000

The following Analytical Methods were performed

Analyst Comments Description Method EPA 905.0 1

The Qualifiers in this report are defined as follows:

DL Failed required detection limit.

Estimated value; the result was greater than the MDA but less than the required detection limit.

JN Presumptive evidence of the analyte at an estimated quantity.

The data are unusable (radionuclide may or may not be present).

Undetected; sample result < MDA U

UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407 (843) 556-8171 • Fax (843) 766-1178



Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company: Brookhaven National Laboratory

Address:

OER

Building 51M

Upton, New York 11973-5000

Contact: Anna Bou

Project:

Brookhaven ERD Contract

Client Sample ID:

Sample ID:

Matrix: Collect Date:

Receive Date: Collector:

10504-003 44563003

Water 21-JUN-01 13:30

22-JUN-01 09:30 Client

Page

Report Date: July 17, 2001

BRKL02000 Project: BRKL003 Client ID: COC: 10504 Samp Recv.: 10504 COC:

Client Desc.: 056-401

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow											
GFPC, Sr90, liquid Strontium-90	U	-0.218	+/-0.234	0.418	0.800	pCi/L		LOM1 07/07/01	0748	88996	1

The following Analytical Methods were performed

Analyst Comments Method Description 1 **EPA 905.0**

Notes:

The Qualifiers in this report are defined as follows:

DL Failed required detection limit.

Estimated value; the result was greater than the MDA but less than the required detection limit.

JN Presumptive evidence of the analyte at an estimated quantity.

The data are unusable (radionuclide may or may not be present).

Undetected; sample result < MDA

UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

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Reviewed by

Potable Weu+12