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for the U.S. Department of Energy

December 7, 2005

Ms. Kathleen Newcomer
Suffolk County Department of Health Services
Office of Water Resources
Bureau of Drinking Water
Suite 1C
360 Yaphank Avenue
Yaphank, New York 11980

Dear Ms. Kathleen Newcomer:

Subject: Monthly Water Treatment Plant Reports
Reference: Suffolk County Minimum Monitoring Requirements for November 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 November 2005.
- Attachment II: November 2005 Biweekly and Fourth Quarter Water Quality Monitoring Data for the BNL Distribution System and Potable Water Wells.
- Attachment III: November 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data and Bacteriological Analyses for the BNL Distribution System.
- Attachment IV: 2005 Fourth Quarter Radiological Analyses for the BNL Potable Water Wells.
- Attachment V: Resampling for Iron and Color in the BNL Distribution System.

In the September 2005 water report, dated October 7, 2005, inorganic analysis for the distribution system showed that iron and color exceeded the regulatory limit. In accordance with NYS Sanitary Code Part 5 requirements, in October, two rounds of samples were taken within a two-week period to

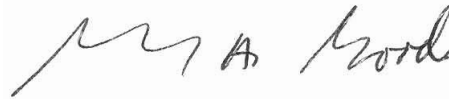


validate the results. Attachment V shows iron and color were in compliance with the regulatory limits.

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 J. Higbie at (631) 344-5919, R. Lee at (631) 344-3148, or W. Chaloupka at (631) 344-7136.

Sincerely,



George A. Goode
Environmental & Waste Management Services
Division Manager

GAG/JB:car

Attachments: As noted

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

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ATTACHMENT I

Brookhaven National Laboratory

Potable Water Supply

Monthly Operational Data for November 2005

for the BNL Potable Water System

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD: NOVEMBER 2005

LOCATION: **Water Treatment Facility**

Did an emergency occur in any part of the water system? YES _____ NO X

Source: Ground Water Does the system have a chlorination waiver? YES _____ NO X

Day of month	CHLORINATION				pH	
	Treated Water	Liquid Sodium Hypochlorite		Free Cl ₂ Residual	Lime Sodium Hydroxide	Totalizer Daily Totalizer
		K Gals	Gallons			
1	1,169	75	10	0.64	7.4	193941
2	1,443	60	15	0.94	7.6	195384
3	1,275	45	15	0.94	7.6	196659
4	1,226	40+160	5	0.67	7.5	197885
5	0					
6	0					
7	3,229	153	47	0.50	7.6	201114
8	1,080	137	18	0.65	7.6	202194
9	1,169	120+80	17	0.77	7.6	203363
10	1,027	185	15	0.78	7.6	204390
11	0					
12	2,480	150	35	1.20	7.8	206870
13	0					
14	1,845	120	30	1.30	7.6	208715
15	0	110	10	1.40	7.6	208715
16	2,125	100	10	1.00	7.7	210840
17	943	90	10	1.40	7.7	211783
18	846	80+110	10	0.85	7.6	212629
19	0					
20	0					
21	2,214	170	20	0.87	7.6	214843
22	680	165	5	1.50	7.6	215523
23	530	159	6	1.40	7.7	216053
24	0					
25	1,144	159	1	0.77	7.7	217197
26	0					
27	0					
28	1,654	170	20	0.60	7.6	218851
29	722	168	2	0.81	7.6	219573
30	829	160	8	0.80	7.7	220402
31	0					
TOT	27,630		309			
AVG.	921.00		10.30	No. Days:	30	

Population Served **3,500**

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES _____ NO X

If yes, check reason's below.

_____ Actual number of samples fewer than required.

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

_____ Failure to analyze repeat samples.

Does an MCL violation exist? YES _____ NO X

If yes, check reason(s) below.

_____ Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

_____ Positive E. Coli result followed by a positive total coliform repeat sample.

_____ Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *[Signature]*

Date: 12-5-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: NOVEMBER 2005
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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

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer 1648622
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl2 use per 24hrs				
1	0	0	0	NR	NR	1648622	
2	0	0	0	NR	NR	1648622	
3	0	0	0	NR	NR	1648622	
4	0	0	0	NR	NR	1648622	
5	0						
6	0						
7	0	0	0	NR	NR	1648622	
8	0	0	0	NR	NR	1648622	
9	0	0	0	NR	NR	1648622	
10	0	0	0	NR	NR	1648622	
11	0						
12	0	0	0	NR	NR	1648622	
13	0						
14	0	0	0	NR	NR	1648622	
15	0	0	0	NR	NR	1648622	
16	0	0	0	NR	NR	1648622	
17	0	0	0	NR	NR	1648622	
18	0	0	0	NR	NR	1648622	
19	0						
20	0						
21	0	0	0	NR	NR	1648622	
22	0	0	0	NR	NR	1648622	
23	0	0	0	NR	NR	1648622	
24	0						
25	0	0	0	NR	NR	1648622	
26	0						
27	0						
28	0	0	0	NR	NR	1648622	
29	0	0	0	NR	NR	1648622	
30	0	0	0	NR	NR	1648622	
31	0						
TOT	0		0				
AVG.	0.00		0.00	No. Days:	30		

Population Served **3,500**

Number of routine samples 4
 (Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *[Signature]*

Date: 12-5-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: NOVEMBER 2005
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LOCATION: WELL NO. 6

Did an emergency occur in any part of the water system? YES NO

Source: Ground Water

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite	Free Cl ₂	Residual	Lime	Sodium	
	K Gals	Gallons	per 24hrs	mg/l	Hydroxide		
1	473	110	5	0.01	5.9		586487
2	290	109	1	0.03	6		586777
3	252	108	1	0.08	6		587029
4	278	95+55	13	0.24	6		587307
5	0						
6	0						
7	1,045	123	27	0.00	6		588352
8	336	112	11	0.17	6		588688
9	336	102	10	0.17	6		589024
10	171	102+48	0	0.00	6		589195
11	0						
12	708	128	22	0.30	6.1		589903
13	0						
14	567	114	14	0.04	6		590470
15	275	114+36	0	0.00	6		590745
16	215	147	3	0.07	6.1		590960
17	0	147	0	0.80	6		590960
18	35	147	0	0.03	6		590995
19	0						
20	0						
21	333	147	0	0.82	6		591328
22	80	144	3	0.24	6		591408
23	198	136	12	0.21	6.1		591606
24	0						
25	294	136	0	0.07	6		591900
26	0						
27	0						
28	74	136	0	0.06	6		591974
29	103	135	1	0.29	6		592077
30	255	117	18	0.20	6		592332
31	0						
TOT	6,318		141				
AVG.	210.60		4.70	No. Days:	30		

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *Jd New*

Date: 2-5-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: NOVEMBER 2005
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LOCATION: **WELL NO. 7**

Did an emergency occur in any part of the water system? YES NO

Source: Ground Water

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide	Totalizer	
		Gallons	Cl2 use per 24hrs				
1	1,040	120+30	20	0.01	5.9	1801887	
2	1,270	132	18	0.03	6	1804197	
3	1,109	112	20	0.08	6	1805306	
4	1,207	90+60	22	0.24	6	1806513	
5	0						
6	0						
7	3,126	99	51	0.00	6	1809639	
8	1,029	81	18	0.17	6	1810668	
9	1,130	63	18	0.17	6	1811798	
10	931	54+96	9	0.00	6	1812729	
11	0						
12	2,390	102	48	0.30	6.1	1815119	
13	0						
14	2,033	63	39	0.04	6	1817152	
15	943	48+102	15	0.00	6	1818095	
16	1,015	123	27	0.07	6.1	1819110	
17	1,222	103	20	0.80	6	1820332	
18	920	93	10	0.03	6	1821252	
19	0						
20	0						
21	2,306	57+93	36	0.82	6	1823558	
22	667	138	12	0.24	6	1824225	
23	476	132	6	0.21	6.1	1824701	
24	0						
25	1,020	126	6	0.07	6	1825721	
26	0						
27	0						
28	1,823	123	3	0.06	6	1827544	
29	719	114	9	0.29	6	1828263	
30	790	96	18	0.20	6	1829053	
31	0						
TOT	27,166		425				
AVG.	905.53		14.17	No. Days:	30		

Population Served **3,500**

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *John A. ...*

Date: 12-9-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169

STATION 11515100

SUFFOLK COUNTY

REPORTING PERIOD: NOVEMBER

2005

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
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl2 use per 24hrs				
1	0	0	0	NR	NR	771679	
2	0	0	0	NR	NR	771679	
3	0	0	0	NR	NR	771679	
4	0	0	0	NR	NR	771679	
5	0						
6	0						
7	0	0	0	NR	NR	771679	
8	1	0	0	NR	NR	771680	
9	0	0	0	NR	NR	771680	
10	0	0	0	NR	NR	771680	
11	0						
12	0	0	0	NR	NR	771680	
13	0						
14	0	0	0	NR	NR	771680	
15	0	0	0	NR	NR	771680	
16	0	0	0	NR	NR	771680	
17	0	0	0	NR	NR	771680	
18	0						
19	0						
20	0	0	0	NR	NR	771680	
21	0	0	0	NR	NR	771680	
22	0	0	0	NR	NR	771680	
23	0						
24	0	0	0	NR	NR	771680	
25	0						
26	0						
27	0	0	0	NR	NR	771680	
28	0	0	0	NR	NR	771680	
29	0	0	0	NR	NR	771680	
30	0						
31	0						
TOT	1		0				
AVG.	0.03		0.00	No. Days:	30		

Population Served **3,500**

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *Ed Kern*

Date: 12-5-09

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: NOVEMBER 2005
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LOCATION: WELL NO. 11

Did an emergency occur in any part of the water system? YES NO

Source: Ground Water Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide	722097	
		Gallons	Cl2 use per 24hrs				
1	0	75	0	NR	NR	722097	
2	0	75	0	NR	NR	722097	
3	0	75	0	NR	NR	722097	
4	0	75	0	NR	NR	722097	
5	0						
6	0						
7	0	72	3	NR	NR	722097	
8	0	72	0	NR	NR	722097	
9	0	72	0	NR	NR	722097	
10	0	72	0	NR	NR	722097	
11	0						
12	0	72	0	NR	NR	722097	
13	0						
14	0	72	0	NR	NR	722097	
15	0	72	0	NR	NR	722097	
16	0	72	0	NR	NR	722097	
17	0	72	0	NR	NR	722097	
18	0	72	0	NR	NR	722097	
19	0						
20	0						
21	0	72	0	NR	NR	722097	
22	0	72	0	NR	NR	722097	
23	0	72	0	NR	NR	722097	
24	0						
25	0	72	0	NR	NR	722097	
26	0						
27	0						
28	0	72	0	NR	NR	722097	
29	79	72	0	NR	NR	722176	
30	0	72	0	NR	NR	722176	
31	0						
TOT	79		3				
AVG.	2.63		0.10	No. Days:	30		

Population Served 3,500

Number of routine samples 4
 (Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES NO

If yes, check reason's below.
 Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.
 Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *J. A. Row*

Date: 12-5-05

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD: NOVEMBER 2005

LOCATION: WELL NO. 12

Did an emergency occur in any part of the water system? YES NO

Source: Ground Water

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl2 use per 24hrs		_____	_____	
1	0	72	0	NR	NR	786255	
2	0	72	0	NR	NR	786255	
3	0	72	0	NR	NR	786255	
4	0	72	0	NR	NR	786255	
5	0						
6	0						
7	0	72	0	NR	NR	786255	
8	0	72	0	NR	NR	786255	
9	0	72	0	NR	NR	786255	
10	0	72	0	NR	NR	786255	
11	0						
12	0	72	0	NR	NR	786255	
13	0						
14	0	72	0	NR	NR	786255	
15	0	72	0	NR	NR	786255	
16	0	72	0	NR	NR	786255	
17	0	72	0	NR	NR	786255	
18	0	72	0	NR	NR	786255	
19	0						
20	0						
21	0	72	0	NR	NR	786255	
22	0	72	0	NR	NR	786255	
23	66	66	6	NR	NR	786321	
24	0						
25	0	72	0	NR	NR	786321	
26	0						
27	0	72	0	NR	NR	786321	
28	84	72	0	NR	NR	786405	
29	0	72	0	NR	NR	786405	
30	0						
31	0						
TOT	150		6				
AVG.	5.00		0.20	No. Days:	30		

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 or high turbidity sample.

_____ Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

_____ Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

_____ Positive E. Coli result followed by a positive total coliform repeat sample.

_____ Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *JL Mann*

Date: 12-5-05

Title: Water Systems Supervisor

Certification No. NY0031941

11/30/2005
Pump Data

MONTHLY GALLONAGE REPORT
NOVEMBER2005.XLS

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total
1	0	473	1,040	0	0	0	1,513
2	0	290	1,270	0	0	0	1,560
3	0	252	1,109	0	0	0	1,361
4	0	278	1,207	0	0	0	1,485
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	1,045	3,126	0	0	0	4,171
8	0	336	1,029	1	0	0	1,366
9	0	336	1,130	0	0	0	1,466
10	0	171	931	0	0	0	1,102
11	0	0	0	0	0	0	0
12	0	708	2,390	0	0	0	3,098
13	0	0	0	0	0	0	0
14	0	567	2,033	0	0	0	2,600
15	0	275	943	0	0	0	1,218
16	0	215	1,015	0	0	0	1,230
17	0	0	1,222	0	0	0	1,222
18	0	35	920	0	0	0	955
19	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
21	0	333	2,306	0	0	0	2,639
22	0	80	667	0	0	0	747
23	0	198	476	0	0	66	740
24	0	0	0	0	0	0	0
25	0	294	1,020	0	0	0	1,314
26	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0
28	0	74	1,823	0	0	84	1,981
29	0	103	719	0	79	0	901
30	0	255	790	0	0	0	1,045
31	0	0	0	0	0	0	0
Total	0	6,318	27,166	1	79	150	33,714
		Totalizer			Totalizer		Total(x1,000)
		This Month			Last Month		Gallons
	Well 4	1,648,622			1,648,622		0
	Well 6	592,332			586,014		6,318
	Well 7	1,829,053			1,801,887		27,166
	Well 10	771,680			771,679		1
	Well 11	722,176			722,097		79
	Well 12	786,405			786,255		150
AGS Water Supply Meter					555,568		1.00
Medical Reactor - Well 105							0.00
Biology Building - Well 9			6,793,050		6,793,050		0.00

ATTACHMENT II

Brookhaven National Laboratory

Potable Water Supply

**November 2005 Biweekly and Fourth Quarter 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
November 2005

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (μ mhos)	Alkalinity (mg/L)	Calcium (mg/L)
W/TTP	11/1/05	7.4	56	149	ANR	ANR
W/TTP	11/3/05	7.6	54	154	ANR	ANR
W/TTP	11/8/05	7.6	56	152	ANR	ANR
W/TTP	11/10/05	7.6	55	155	ANR	ANR
W/TTP	11/15/05	7.6	55	151	ANR	ANR
W/TTP	11/17/05	7.7	56	162	ANR	ANR
W/TTP	11/22/05	7.6	55	154	ANR	ANR
W/TTP	11/29/05	7.6	57	147	ANR	ANR
Bldg. 49	10/7/05	8.3	69.8	177	16.0	7.29
Bldg. 640	10/7/05	8.1	69.8	182	16.0	6.83
Bldg. 363	10/7/05	7.5	71.6	172	27.0	7.97

ANR- Analysis Not Required

NR- Not Reported

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

H2M LABS, INC.

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

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Marcia Allocco

Lab No. : 0510237-002A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Federal ID 5111891

Client ID. : 20897-002

Collected : 10/7/2005 9:05:00 AM

Point No : 094-273

Received : 10/7/2005 3:15:00 PM

Location : B-49 Water Tower

Collected By : CLIENT

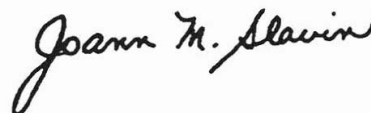
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Specific Conductance	177		1	µmhos/cm		E120.1	10/07/2005
PH (FIELD)	8.3		1	pH Units		E150.1	10/07/2005
Temperature	21		1	°C		E170.1	10/07/2005
Alkalinity, Total (As CaCO3)	16.0		1	mg/L		M2320 B	10/10/2005 3:11 PM

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

Date Reported : 10/25/2005



Laboratory Manager

BNLM166 A25

H2M LABS, INC.

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

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Marcia Allocco

Federal ID 5111891

Collected : 10/7/2005 9:05:00 AM

Received : 10/7/2005 3:15:00 PM

Collected By : CLIENT

Copy : Original

CC

Lab No. : 0510237-002A

Client ID. : 20897-002

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

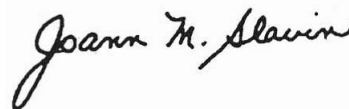
Point No : 094-273

Location : B-49 Water Tower

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Calcium	7290		1	µg/L		E200.7	10/17/2005 10:51 AM

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

Date Reported : 10/25/2005



H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0510237-001A

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

Federal ID 5111891

Client ID. : 20897-001

Collected : 10/7/2005 9:05:00 AM

Point No : 094-273

Received : 10/7/2005 3:15:00 PM

Location : B-49 Water Tower

Collected By : CLIENT

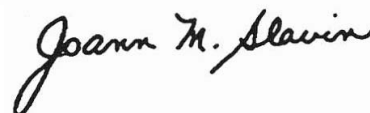
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	10/08/2005 12:30 PM
E_Coliform	Absent		1		Absent	M9223	10/08/2005 12:30 PM
Total Residual Chlorine	0.7		1	mg/L		M4500-Cl G	10/07/2005

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

Date Reported : 10/25/2005



Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0510237-004A

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

Federal ID : 5111891

Client ID. : 20897-005

Collected : 10/7/2005 8:55:00 AM

Point No : 076-408

Received : 10/7/2005 3:15:00 PM

Location : B-640 Water Tower

Collected By : CLIENT

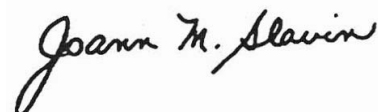
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Specific Conductance	182		1	µmhos/cm		E120.1	10/07/2005
PH (FIELD)	8.1		1	pH Units		E150.1	10/07/2005
Temperature	21		1	°C		E170.1	10/07/2005
Alkalinity, Total (As CaCO3)	15.0		1	mg/L		M2320 B	10/10/2005 3:16 PM

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

Date Reported : 10/25/2005



Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

Lab No. : 0510237-004A

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

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

Federal ID : 5111891

Client ID. : 20897-005

Collected : 10/7/2005 8:55:00 AM

Point No : 076-408

Received : 10/7/2005 3:15:00 PM

Location : B-640 Water Tower

Collected By : CLIENT

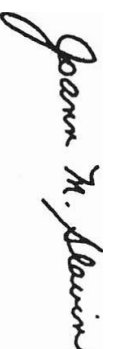
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Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Method Number	Analyzed
Calcium	6830		1	µg/L		E200.7	10/17/2005 11:19 AM

Result(s) reported meet(s) Regulatory Limit(s).
Result(s) flagged with * Exceed Regulatory Limit(s)
D.F. = Dilution Factor
Date Reported : 10/25/2005

2 of 3


Laboratory Manager

BNLM166 A27

H2M LABS, INC.

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

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Marcia Allocco

Federal ID 5111891

Collected : 10/7/2005 8:55:00 AM

Received : 10/7/2005 3:15:00 PM

Collected By : CLIENT

Copy : Original

CC

Lab No. : 0510237-003A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Client ID : 20897-004

Point No : 076-408

Location : B-640 Water Tower

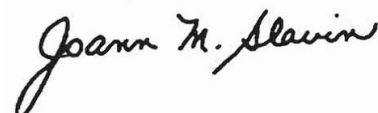
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	10/08/2005 12:30 PM
E_Coliform	Absent		1		Absent	M9223	10/08/2005 12:30 PM
Total Residual Chlorine	1.2		1	mg/L		M4500-Cl G	10/07/2005

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

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

D.F. = Dilution Factor

Date Reported : 10/25/2005



Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0510237-006A

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

Federal ID 5111891

Client ID. : 20897-008

Collected : 10/7/2005 9:25:00 AM

Point No : 103-19

Received : 10/7/2005 3:15:00 PM

Location : 363 - Apt. Laundry

Collected By : CLIENT

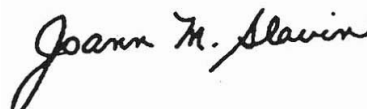
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Specific Conductance	172		1	µmhos/cm		E120.1	10/07/2005
PH (FIELD)	7.5		1	pH Units		E150.1	10/07/2005
Temperature	22		1	°C		E170.1	10/07/2005
Alkalinity, Total (As CaCO3)	27.0		1	mg/L		M2320 B	10/10/2005 3:21 PM

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

Date Reported : 10/25/2005



Laboratory Manager

H2M LABS, INC.

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

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Marcia Allocco

Federal ID 5111891

Collected : 10/7/2005 9:25:00 AM

Received : 10/7/2005 3:15:00 PM

Collected By : CLIENT

Copy : Original

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LABORATORY RESULTS

Lab No. : 0510237-006A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Client ID. : 20897-008

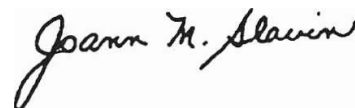
Point No : 103-19

Location : Bldg 363 Apt. Laundry

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Calcium	7970		1	µg/L		E200.7	10/17/2005 11:26 AM

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

Date Reported : 10/25/2005



Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0510237-005A

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

Federal ID : 5111891

Client ID. : 20897-007

Collected : 10/7/2005 9:25:00 AM

Point No : 103-19

Received : 10/7/2005 3:15:00 PM

Location : Bldg 363 Apt. Laundry

Collected By : CLIENT

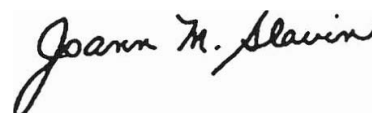
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	10/08/2005 12:30 PM
E_Coliform	Absent		1		Absent	M9223	10/08/2005 12:30 PM
Total Residual Chlorine	0.6		1	mg/L		M4500-CI G	10/07/2005

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

Date Reported : 10/25/2005



Laboratory Manager

BNLM166 A29

ATTACHMENT III

Brookhaven National Laboratory

Potable Water Supply

November 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule

Monitoring Data and Bacteriological Analyses for the BNL Distribution System

Attachment III

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

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

NA - Not Applicable

NS- Not Scheduled for sampling

Running Annual Average (mg/L) 0.7 (Total Residual Chlorine)
MRDL (mg/L) 4.0

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0511139-001

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

Federal ID : 5111891

Client ID. : 21961-001

Collected : 11/4/2005 9:30:00 AM

Point No: 094-273

Received : 11/4/2005 3:15:00 PM

Location: B-49 Water Tower

Collected By CLIENT

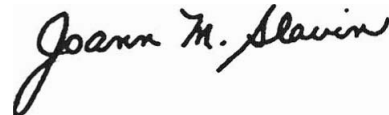
Copy : Original

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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	11/05/2005 12:45 PM
E_Coliform	Absent		1		Absent	M9223	11/05/2005 12:45 PM
Total Residual Chlorine	0.9		1	mg/L		M4500-CI G	11/04/2005

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

Date Reported : 11/11/2005



Laboratory Manager

BNLM169 A10

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0511139-003

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

Federal ID : 5111891

Client ID. : 21961-002

Collected : 11/4/2005 9:10:00 AM Point No: 076-408

Received : 11/4/2005 3:15:00 PM Location: B-640 Water Tower

Collected By CLIENT

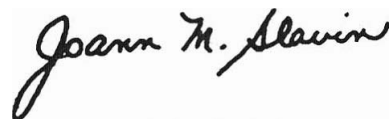
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	11/05/2005 12:45 PM
E_Coliform	Absent		1		Absent	M9223	11/05/2005 12:45 PM
Total Residual Chlorine	0.4		1	mg/L		M4500-Cl G	11/04/2005

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

Date Reported : 11/11/2005



Laboratory Manager

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 664-3040. FAX: (631) 420-8436 NYSDOHID# 10478

LABORATORY RESULTS

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

Lab No. : 0511139-005

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

Federal ID : 5111891

Client ID. : 21961-004

Collected : 11/4/2005 9:45:00 AM

Point No: 109-19

Received : 11/4/2005 3:15:00 PM

Location: B-363 Apt.Laundry

Collected By CLIENT

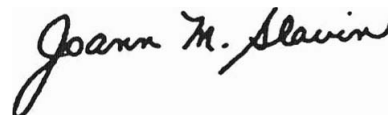
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	11/05/2005 12:45 PM
E_Coliform	Absent		1		Absent	M9223	11/05/2005 12:45 PM
Total Residual Chlorine	1.0		1	mg/L		M4500-CI G	11/04/2005

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

Date Reported : 11/11/2005



Laboratory Manager

BNLM169 A14

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0511139-004

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

Federal ID : 5111891

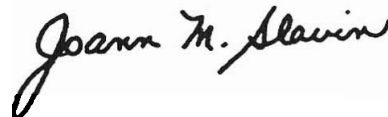
Client ID. : 21961-003

Collected : 11/4/2005 9:00:00 AM Point No: 045-12
Received : 11/4/2005 3:15:00 PM Location: B-1005 RHIC
Collected By CLIENT
Copy : Original
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	11/05/2005 12:45 PM
E_Coliform	Absent		1		Absent	M9223	11/05/2005 12:45 PM
Total Residual Chlorine	0.6		1	mg/L		M4500-CI G	11/04/2005

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

Date Reported : 11/11/2005



Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Marcia Allocco

Lab No. : 0511139-006

Sample Information...

Type : Potable Water

Origin: Distribution

Federal ID : 5111891

Client ID. : 21961-005

Collected : 11/4/2005 8:45:00 AM Point No: 054-187

Received : 11/4/2005 3:15:00 PM Location: B-930 LINAC

Collected By CLIENT

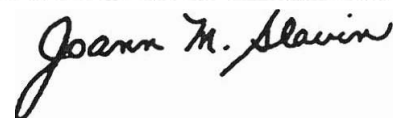
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	11/05/2005 12:45 PM
E_Coliform	Absent		1		Absent	M9223	11/05/2005 12:45 PM
Total Residual Chlorine	0.8		1	mg/L		M4500-CI G	11/04/2005

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

Date Reported : 11/11/2005



Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0511139-007

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

Federal ID : 5111891

Client ID. : 21961-006

Collected : 11/4/2005 10:15:00 AM Point No: 084-70

Received : 11/4/2005 3:15:00 PM Location: B-490 Outpatient Clinic

Collected By CLIENT

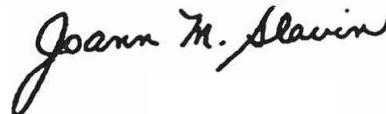
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	11/05/2005 12:45 PM
E_Coliform	Absent		1		Absent	M9223	11/05/2005 12:45 PM
Total Residual Chlorine	0.5		1	mg/L		M4500-Cl G	11/04/2005

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

Date Reported : 11/11/2005



Laboratory Manager

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0511139-008

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

Federal ID : 5111891

Client ID. : 21961-007

Collected : 11/4/2005 10:40:00 AM Point No: 084-67
Received : 11/4/2005 3:15:00 PM Location: B-490 Block 11

Collected By CLIENT

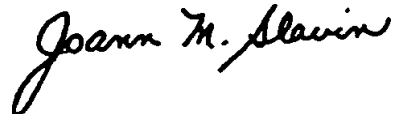
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	11/05/2005 12:45 PM
E_Coliform	Absent		1		Absent	M9223	11/05/2005 12:45 PM
Total Residual Chlorine	0.9		1	mg/L		M4500-Cl G	11/04/2005

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

Date Reported : 11/11/2005



Laboratory Manager

BNLM169 A17

ATTACHMENT IV

Brookhaven National Laboratory

Potable Water Supply

2005 Fourth Quarter Radiological Analyses

for the BNL Potable Water Wells

ATTACHMENT IV

Table 3
Summary of 2005 Fourth Quarter Radiological Analyses for the
BNL Potable Water Wells

Well ID	Sample Date	Gross Alpha (pCi/L)	Gross Beta (pCi/L)	Tritium (pCi/L)	Sr-90 (pCi/L)
Well #6	10/25/05	< 1.55	< 0.9	< 394	< 0.46
Well # 7	10/25/05	< 1.72	< 1.03	< 378	< 0.43
Well #11	10/25/05	< 1.57	< 0.87	< 393	< 0.50
Well #12	10/25/05	< 1.37	< 1.81	< 352	< 0.47
Well # 12 (Duplicate)	10/25/05	< 1.63	< 0.92	< 378	< 0.49

NA – Not Analyzed

NS – Not Sampled/Shutdown

* - The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.

6

148724

ASL Prefix No. _____

Page 1 of 1

BROOKHAVEN
NATIONAL LABORATORY

Carrier/Waybill # _____

Chain of Custody No
22057

Requires EDD DQL _____

SAMPLING CHAIN OF CUSTODY

Analysis Requested By		Sampling Contractor		Analytical Laboratory	
Name:	<u>B. Lee</u>	Name:	<u>EWMSD</u>	Name:	<u>GEL</u>
Life No:	<u>20222</u> Ext. <u>3149</u>	Contact:		Address:	
Acct. No:	<u>19741</u> Dept: <u>ES</u>	Phone:		City:	St: Zip:
Email Reports To:		Email/Fax:		Contact:	
1	<u>B. Lee</u>	1	<u>R. Metc</u>	1	
2		2		2	
Project Name:		Project Manager:		Field Engineer:	
<u>ES F-Wells</u>		<u>B. Lee</u>			

Comments:

Analysis Requested									
Alpha/Beta	Tritium	Gamma	Strontium	524.2	624	Nuclide-specific Alpha	PCBs	Metals	
X	X	X							
	X								
X	X	X							
	X								
X	X	X							
	X								
X	X	X							
	X								

LID	UID	Smp	Coil	Sample Information				Additional Sample Information				Preservative	Alpha/Beta	Tritium	Gamma	Strontium	524.2	624	Nuclide-specific Alpha	PCBs	Metals	
				Site ID/Bldg/Life #	Depth/RWP	Date	Time	Matrix	Name/Description	Cont. Vol./Units	Cont. Type											# of Cont.
	001	EG		well 12	92-137	10/25/05	1330 W	well 12	4L	P	1	HNO3	X	X	X							
	001	EG		↓	↓	↓	W	↓	250ml	AG	1	---		X								
	002	EG		well 11	93-142	↓	1338 W	well 11	4L	P	1	HNO3	X	X	X							
	002	EG		↓	↓	↓	W	↓	250ml	AG	1	---		X								
	003	EG		well 6	98-150	↓	1350 W	well 6	4L	P	1	HNO3	X	X	X							
	003	EG		↓	↓	↓	W	↓	250ml	AG	1	---		X								
	004	EG		well 7	99-150	↓	1345 W	well 7	4L	P	1	HNO3	X	X	X							
	004	EG		↓	↓	↓	W	↓	250ml	AG	1	---		X								
	005	EG		BD-1	0	↓	---	BD-1	4L	P	1	HNO3	X	X	X							
	005	EG		↓	0	↓	W	↓	250ml	AG	1	---		X								

1 Relinquished By/Date/Time Print <u>R. Metc 10/25/05</u> Signature <u>[Signature]</u>	2 Relinquished By/Date/Time Print <u>Bentley 10/26/05</u> Signature <u>[Signature]</u>	3 Relinquished By/Date/Time Print _____ Signature _____
1 Received By/Date/Time Print _____ Signature _____	2 Received By/Date/Time Print _____ Signature _____	3 Received By/Date/Time Print _____ Signature _____

Contractor Lab Sample Disposal

Return To Client Disposal by Lab

Archive For _____ Months

Data Package: Full Summary

Turn-Around Time Required:

Rush (1 Day) 14 Days 30 Days

7 Days Other ()

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
 Address : Building 51
 Upton, New York 11973-5000

Report Date: November 23, 2005

Contact: Mr. John Burke

Project: **Hazardous & Radiochemical Analytical**

Service - Sum
 Client Sample ID: 22057-003
 Sample ID: 148724003
 Matrix: Water
 Collect Date: 25-OCT-05 13:50
 Receive Date: 26-OCT-05 10:00
 Collector: Client

Project: BRKL00401
 Client ID: BRKL004
 COC: 22057
 Samp Recv.:
 Client Desc.: Well 6

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Liquid (Standard List)

Americium-241	U	-3.69	+/-10.1	11.7	20.0	pCi/L		MJH1	11/17/05	1936	475915	1
Beryllium-7	U	0.815	+/-11.6	20.1	200	pCi/L						
Cesium-134	U	0.312	+/-1.15	2.01	10.0	pCi/L						
Cesium-137	U	-0.0664	+/-1.21	2.06	12.0	pCi/L						
Cobalt-57	U	0.0587	+/-1.10	1.81	10.0	pCi/L						
Cobalt-60	U	0.375	+/-1.16	2.14	22.0	pCi/L						
Europium-152	U	-0.749	+/-3.21	5.50	40.0	pCi/L						
Europium-154	U	-0.708	+/-3.05	5.34	20.0	pCi/L						
Europium-155	U	0.799	+/-4.54	7.55	30.0	pCi/L						
Manganese-54	U	-0.0791	+/-1.10	1.86	10.0	pCi/L						
Sodium-22	U	-0.239	+/-1.10	1.93	10.0	pCi/L						
Zinc-65	U	-2.78	+/-2.51	4.07	20.0	pCi/L						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, liquid

Alpha	U	-0.136	+/-0.361	0.900	2.00	pCi/L		ATH2	11/13/05	2048	478196	2
Beta	U	1.31	+/-0.828	1.55	4.00	pCi/L						

GFPC, Sr90, liquid

Strontium-90	U	0.149	+/-0.218	0.461	0.800	pCi/L		EXW1	11/14/05	2333	478195	3
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	128	+/-232	394	1000	pCi/L		MXP1	11/22/05	1050	479673	4
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The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 905.0 Modified	
4	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery %	Acceptable Limits
Strontium-90	GFPC, Sr90, liquid			98	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
 Address : Building 51
 Upton, New York 11973--5000

Report Date: November 23, 2005

Contact: Mr. John Burke

Project: **Hazardous & Radiochemical Analytical**

Service – Sum
 Client Sample ID: 22057-004
 Sample ID: 148724004
 Matrix: Water
 Collect Date: 25-OCT-05 13:45
 Receive Date: 26-OCT-05 10:00
 Collector: Client

Project: BRKL00401
 Client ID: BRKL004
 COC: 22057
 Samp Recv.:
 Client Desc.: Well 7

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gamma spec, Gamma, Liquid (Standard List)</i>												
Americium-241	U	3.75	+/-8.57	14.2	20.0	pCi/L		MJH1	11/17/05	1929	475915	1
Beryllium-7	U	-1.87	+/-10.9	19.0	200	pCi/L						
Cesium-134	U	0.0278	+/-1.17	2.02	10.0	pCi/L						
Cesium-137	U	0.303	+/-1.07	1.89	12.0	pCi/L						
Cobalt-57	U	-0.221	+/-1.05	1.81	10.0	pCi/L						
Cobalt-60	U	1.09	+/-1.17	2.06	22.0	pCi/L						
Europium-152	U	-2.03	+/-3.46	5.56	40.0	pCi/L						
Europium-154	U	-0.933	+/-3.02	5.23	20.0	pCi/L						
Europium-155	U	-1.04	+/-4.22	7.34	30.0	pCi/L						
Manganese-54	U	-0.619	+/-1.03	1.68	10.0	pCi/L						
Sodium-22	U	-0.349	+/-1.09	1.88	10.0	pCi/L						
Zinc-65	U	0.614	+/-2.61	4.16	20.0	pCi/L						
Rad Gas Flow Proportional Counting												
<i>GFPC, Gross A/B, liquid</i>												
Alpha	U	-0.0149	+/-0.528	1.03	2.00	pCi/L		ATH2	11/13/05	2050	478196	2
Beta	U	1.03	+/-0.890	1.72	4.00	pCi/L						
<i>GFPC, Sr90, liquid</i>												
Strontium-90	U	0.166	+/-0.206	0.429	0.800	pCi/L		EXWI	11/14/05	2333	478195	3
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	-113	+/-211	378	1000	pCi/L		MXP1	11/22/05	1122	479673	4

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 905.0 Modified	
4	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium-90	GFPC, Sr90, liquid			98	(25%–125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
 Address : Building 51
 Upton, New York 11973-5000

Report Date: November 23, 2005

Contact: Mr. John Burke

Project: **Hazardous & Radiochemical Analytical**

Service - Sum
 Client Sample ID: 22057-002
 Sample ID: 148724002
 Matrix: Water
 Collect Date: 25-OCT-05 13:38
 Receive Date: 26-OCT-05 10:00
 Collector: Client

Project: BRKL00401
 Client ID: BRKL004
 COC: 22057
 Samp Recv.:
 Client Desc.: Well 11

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>GammaSpec, Gamma, Liquid (Standard List)</i>												
Americium-241	U	7.21	+/-6.13	10.4	20.0	pCi/L		MJH1	11/17/05	1728	475915	1
Beryllium-7	U	-2.26	+/-10.8	18.7	200	pCi/L						
Cesium-134	U	-0.285	+/-1.12	1.88	10.0	pCi/L						
Cesium-137	U	0.602	+/-1.12	1.98	12.0	pCi/L						
Cobalt-57	U	-0.0344	+/-0.944	1.63	10.0	pCi/L						
Cobalt-60	U	0.480	+/-1.10	2.02	22.0	pCi/L						
Europium-152	U	0.307	+/-3.13	5.20	40.0	pCi/L						
Europium-154	U	-0.228	+/-3.06	5.38	20.0	pCi/L						
Europium-155	U	1.32	+/-3.88	6.80	30.0	pCi/L						
Manganese-54	U	-0.246	+/-1.01	1.69	10.0	pCi/L						
Sodium-22	U	0.0855	+/-1.08	1.94	10.0	pCi/L						
Zinc-65	U	-0.473	+/-2.15	3.76	20.0	pCi/L						
Rad Gas Flow Proportional Counting												
<i>GFPC, Gross A/B, liquid</i>												
Alpha	U	-0.257	+/-0.312	0.867	2.00	pCi/L		ATH2	11/13/05	2048	478196	2
Beta	U	1.10	+/-0.821	1.57	4.00	pCi/L						
<i>GFPC, Sr90, liquid</i>												
Strontium-90	U	0.0344	+/-0.219	0.497	0.800	pCi/L		EXW1	11/14/05	2333	478195	3
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	-5.26	+/-224	393	1000	pCi/L		MXP1	11/22/05	1018	479673	4

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 905.0 Modified	
4	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium-90	GFPC, Sr90, liquid			91	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
 Address : Building 51
 Upton, New York 11973—5000

Report Date: November 23, 2005

Contact: Mr. John Burke
 Project: **Hazardous & I**

Service – Sum Client Sample ID: 22057-001 Sample ID: 148724001 Matrix: Water Collect Date: 25-OCT-05 13:30 Receive Date: 26-OCT-05 10:00 Collector: Client	Project: BRKL00401 Client ID: BRKL004 COC: 22057 Samp Recv.: Client Desc.: Well 12
--	--

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Liquid (Standard List)</i>												
Americium-241	U	0.448	+/-1.98	3.32	20.0	pCi/L		MJH1	11/21/05	1715	475915	1
Beryllium-7	U	1.66	+/-12.1	21.3	200	pCi/L						
Cesium-134	U	-0.0173	+/-1.28	2.17	10.0	pCi/L						
Cesium-137	U	-0.073	+/-1.22	2.09	12.0	pCi/L						
Cobalt-57	U	0.434	+/-0.876	1.42	10.0	pCi/L						
Cobalt-60	U	0.602	+/-1.24	2.26	22.0	pCi/L						
Europium-152	U	-2.14	+/-3.14	5.06	40.0	pCi/L						
Europium-154	U	-0.164	+/-3.62	6.28	20.0	pCi/L						
Europium-155	U	2.24	+/-3.31	5.44	30.0	pCi/L						
Manganese-54	U	0.646	+/-1.23	2.16	10.0	pCi/L						
Sodium-22	U	-0.0635	+/-1.31	2.26	10.0	pCi/L						
Zinc-65	U	-0.94	+/-3.07	4.52	20.0	pCi/L						
Rad Gas Flow Proportional Counting												
<i>GFPC, Gross A/B, liquid</i>												
Alpha	U	-0.203	+/-0.600	1.37	2.00	pCi/L		ATH2	11/13/05	2048	478196	2
Beta	U	1.46	+/-0.955	1.81	4.00	pCi/L						
<i>GFPC, Sr90, liquid</i>												
Strontium-90	U	-0.0126	+/-0.201	0.471	0.800	pCi/L		EXW1	11/14/05	2333	478195	3
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	73.9	+/-205	352	1000	pCi/L		MXP1	11/22/05	0947	479673	4

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 905.0 Modified	
4	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery %	Acceptable Limits
Strontium-90	GFPC, Sr90, liquid			91	(25%–125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
 Address : Building 51
 Upton, New York 11973—5000

Report Date: November 23, 2005

Contact: Mr. John Burke
 Project: **Hazardous & Radiochemical Analytical**

Service – Sum
 Client Sample ID: 22057-005
 Sample ID: 148724005
 Matrix: Water
 Collect Date: 25-OCT-05 12:00
 Receive Date: 26-OCT-05 10:00
 Collector: Client

Project: BRKL00401
 Client ID: BRKL004
 COC: 22057
 Samp Recv.:
 Client Desc.: BD-1

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Liquid (Standard List)</i>												
Americium-241	U	-0.267	+/-6.59	10.4	20.0	pCi/L		MJH1	11/17/05	1929	475915	1
Beryllium-7	U	-6.58	+/-11.9	19.5	200.	pCi/L						
Cesium-134	U	-1.0	+/-1.21	1.99	10.0	pCi/L						
Cesium-137	U	1.10	+/-1.20	2.21	12.0	pCi/L						
Cobalt-57	U	-0.185	+/-0.995	1.67	10.0	pCi/L						
Cobalt-60	U	-0.459	+/-1.24	2.12	22.0	pCi/L						
Europium-152	U	-1.79	+/-3.42	5.76	40.0	pCi/L						
Europium-154	U	-1.4	+/-3.36	5.76	20.0	pCi/L						
Europium-155	U	-0.922	+/-3.98	6.73	30.0	pCi/L						
Manganese-54	U	0.424	+/-1.17	2.08	10.0	pCi/L						
Sodium-22	U	-0.505	+/-1.21	2.07	10.0	pCi/L						
Zinc-65	U	2.25	+/-2.92	4.84	20.0	pCi/L						
Rad Gas Flow Proportional Counting												
<i>GFPC, Gross A/B, liquid</i>												
Alpha	U	0.473	+/-0.544	0.924	2.00	pCi/L		ATH2	11/13/05	2050	478196	2
Beta	J	1.78	+/-0.893	1.63	4.00	pCi/L						
<i>GFPC, Sr90, liquid</i>												
Strontium-90	U	0.0908	+/-0.223	0.489	0.800	pCi/L		EXW1	11/14/05	2333	478195	3
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	62.5	+/-219	378	1000	pCi/L		MXPI	11/22/05	1154	479673	4

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 905.0 Modified	
4	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery %	Acceptable Limits
Strontium-90	GFPC, Sr90, liquid			93	(25%–125%)

Well # 12 Duplicate

ATTACHMENT V

Brookhaven National Laboratory

Potable Water Supply

Resampling for Iron and Color

in the BNL Distribution System

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0510303-001

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

Federal ID : 5111891

Client ID. : 20898-001

Collected : 10/11/2005 10:15:00 AM Point No: 085-294

Received : 10/11/2005 3:20:00 PM Location: B-185 Personnel

Collected By CLIENT

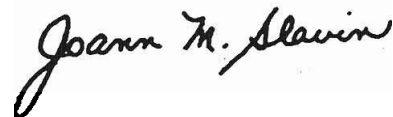
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Iron	70.2		1	µg/L	300	E200.7	10/17/2005 11:33 AM

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

Date Reported : 11/3/2005



Laboratory Manager

BNLM167 A14

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0510303-002

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

Federal ID : 5111891

Client ID. : 20898-001

Collected : 10/11/2005 10:15:00 AM Point No: 085-294

Received : 10/11/2005 3:20:00 PM Location: B-185 Personnel

Collected By CLIENT

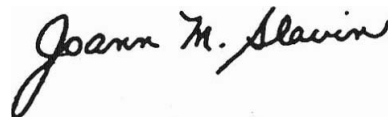
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Color	< 5		1	units	15	E110.2	10/12/2005 8:08 AM

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

Date Reported : 11/3/2005



Laboratory Manager

BNLM167 A15

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0510607-001

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

Federal ID : 5111891

Client ID. : 20900-001

Collected : 10/21/2005 10:10:00 AM Point No: 085-294

Received : 10/21/2005 3:00:00 PM Location: B-185 Personnel

Collected By CLIENT

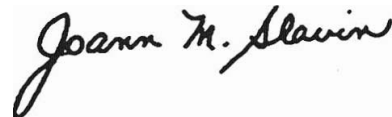
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Iron	46.3		1	µg/L	300	E200.7	11/09/2005 11:42 AM

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

Date Reported : 11/11/2005



Laboratory Manager

BNLM168 A14

H2M LABS, INC.

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

LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Bob Lee

Lab No. : 0510607-002

Sample Information...

Type : Potable Water

Origin: Distribution

Federal ID : 5111891

Client ID. : 20900-001

Collected : 10/21/2005 10:10:00 AM Point No: 085-294

Received : 10/21/2005 3:00:00 PM Location: B-185 Personnel

Collected By CLIENT

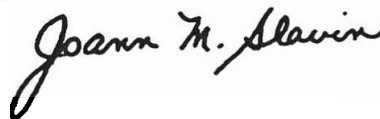
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Color	< 5		1	units	15	E110.2	10/22/2005 1:02 PM

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

Date Reported : 11/11/2005



Laboratory Manager

BNLM168 A15