

FINAL REPORT

Albany Memorial Hospital

Engineering
 600 Northern Blvd
 Albany, NY 12204
 P: (518) 471-3015
 F: (518) 447-3587
ATTN: Larry Tilton

Account #: 2318
 SPL Project ID: 1806-00904
 Project Name: Water Samples for Copper
 PO Number: 3226-4019
 Sampled By: Tom Poole
 Date Received: 06/28/2018
 Date Final: 07/09/2018

Summary

This summary is provided for your convenience. Complete report on the following pages.

Copper/Silver Analysis

Location	Result	Concentration
1. 5- North	Complete	Copper: 0.3 mg/L Silver: 0.12 mg/L
2. 5- South	Complete	Copper: 0.3 mg/L Silver: 0.14 mg/L
3. 4- North	Complete	Copper: 0.4 mg/L Silver: 0.13 mg/L
4. 4- South	Complete	Copper: 0.2 mg/L Silver: 0.12 mg/L
5. 4- CCD 438.02	Complete	Copper: 0.2 mg/L Silver: 0.11 mg/L
6. 4- CCD 440.01	Complete	Copper: 0.1 mg/L Silver: 0.11 mg/L
7. 2- North	Complete	Copper: 0.1 mg/L Silver: 0.11 mg/L
8. 2- South	Complete	Copper: 0.1 mg/L Silver: 0.05 mg/L
9. ED- Ex 3	Complete	Copper: 0.1 mg/L Silver: 0.05 mg/L
10. SG- Return	Complete	Copper: 0.2 mg/L Silver: 0.03 mg/L

Legionella Environmental Culture Test – New York

Location	Result	Concentration
1. 5- North	Not Detected	
2. 5- South	Not Detected	
3. 4- North	Not Detected	
4. 4- South	Not Detected	
5. 4- CCD 438.02	Not Detected	
6. 4- CCD 440.01	Not Detected	
7. 2- North	Not Detected	
8. 2- South	Not Detected	
9. ED- Ex 3	Not Detected	
10. SG- Return	Not Detected	



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Approved by: Jack Rihs

A handwritten signature in blue ink, appearing to read "Janet Stout".

Janet E. Stout, Ph.D.
Director, Special Pathogens Laboratory

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Location:	1. 5- North	Date Collected:	06/27/2018
Sample ID:	1806-00904.001	Sample Type:	Water
		Time Collected:	7:40 am

Test Requested:	Copper/Silver Analysis	Status:	Complete 07/09/2018
Result:	Complete		
Copper:	0.3 mg/L		
Silver:	0.12 mg/L		
Report Comments:	Silver Ions Above Target Range		

Test Requested:	Legionella Environmental Culture Test – New York	Status:	Complete 07/05/2018
Result:	Not Detected		
Volume Examined:	0.1 mL of processed sample		

Location:	2. 5- South	Date Collected:	06/27/2018
Sample ID:	1806-00904.002	Sample Type:	Water
		Time Collected:	7:45 am

Test Requested:	Copper/Silver Analysis	Status:	Complete 07/09/2018
Result:	Complete		
Copper:	0.3 mg/L		
Silver:	0.14 mg/L		
Report Comments:	Silver Ions Above Target Range		

Test Requested:	Legionella Environmental Culture Test – New York	Status:	Complete 07/05/2018
Result:	Not Detected		
Volume Examined:	0.1 mL of processed sample		

Location:	3. 4- North	Date Collected:	06/27/2018
Sample ID:	1806-00904.003	Sample Type:	Water
		Time Collected:	8:00 am

Test Requested:	Copper/Silver Analysis	Status:	Complete 07/09/2018
Result:	Complete		
Copper:	0.4 mg/L		
Silver:	0.13 mg/L		
Report Comments:	Silver Ions Above Target Range		

Test Requested:	Legionella Environmental Culture Test – New York	Status:	Complete 07/05/2018
Result:	Not Detected		
Volume Examined:	0.1 mL of processed sample		

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Location:	4. 4- South	Date Collected:	06/27/2018
Sample ID:	1806-00904.004	Sample Type:	Water
		Time Collected:	8:05 am

Test Requested:	Copper/Silver Analysis	Status:	Complete 07/09/2018
Result:	Complete		
Copper:	0.2 mg/L		
Silver:	0.12 mg/L		
Report Comments:	Silver Ions Above Target Range		

Test Requested:	Legionella Environmental Culture Test – New York	Status:	Complete 07/05/2018
Result:	Not Detected		
Volume Examined:	0.1 mL of processed sample		

Location:	5. 4- CCD 438.02	Date Collected:	06/27/2018
Sample ID:	1806-00904.005	Sample Type:	Water
		Time Collected:	8:15 am

Test Requested:	Copper/Silver Analysis	Status:	Complete 07/09/2018
Result:	Complete		
Copper:	0.2 mg/L		
Silver:	0.11 mg/L		
Report Comments:	Silver Ions Above Target Range		

Test Requested:	Legionella Environmental Culture Test – New York	Status:	Complete 07/05/2018
Result:	Not Detected		
Volume Examined:	0.1 mL of processed sample		

Location:	6. 4- CCD 440.01	Date Collected:	06/27/2018
Sample ID:	1806-00904.006	Sample Type:	Water
		Time Collected:	8:20 am

Test Requested:	Copper/Silver Analysis	Status:	Complete 07/09/2018
Result:	Complete		
Copper:	0.1 mg/L		
Silver:	0.11 mg/L		
Report Comments:	Copper Ions Below and Silver Ions Above Target Ranges		

Test Requested:	Legionella Environmental Culture Test – New York	Status:	Complete 07/05/2018
Result:	Not Detected		
Volume Examined:	0.1 mL of processed sample		

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Location: **7. 2- North** Date Collected: 06/27/2018
 Sample ID: 1806-00904.007 Sample Type: Water
 Time Collected: 8:25 am

Test Requested: Copper/Silver Analysis Status: Complete 07/09/2018
 Result: **Complete**
 Copper: 0.1 mg/L
 Silver: 0.11 mg/L
 Report Comments: Copper Ions Below and Silver Ions Above Target Ranges

Test Requested: Legionella Environmental Culture Test – New York Status: Complete 07/05/2018
 Result: **Not Detected**
 Volume Examined: 0.1 mL of processed sample

Location: **8. 2- South** Date Collected: 06/27/2018
 Sample ID: 1806-00904.008 Sample Type: Water
 Time Collected: 8:30 am

Test Requested: Copper/Silver Analysis Status: Complete 07/09/2018
 Result: **Complete**
 Copper: 0.1 mg/L
 Silver: 0.05 mg/L
 Report Comments: Copper Ions Above Target Range

Test Requested: Legionella Environmental Culture Test – New York Status: Complete 07/05/2018
 Result: **Not Detected**
 Volume Examined: 0.1 mL of processed sample

Location: **9. ED- Ex 3** Date Collected: 06/27/2018
 Sample ID: 1806-00904.009 Sample Type: Water
 Time Collected: 8:38 am

Test Requested: Copper/Silver Analysis Status: Complete 07/09/2018
 Result: **Complete**
 Copper: 0.1 mg/L
 Silver: 0.05 mg/L
 Report Comments: Copper Ions Below Target Range

Test Requested: Legionella Environmental Culture Test – New York Status: Complete 07/05/2018
 Result: **Not Detected**
 Volume Examined: 0.1 mL of processed sample

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Location:	10. SG- Return	Date Collected:	06/27/2018
Sample ID:	1806-00904.010	Sample Type:	Water
		Time Collected:	8:45 am

Test Requested:	Copper/Silver Analysis	Status:	Complete 07/09/2018
Result:	Complete		
Copper:	0.2 mg/L		
Silver:	0.03 mg/L		

Test Requested:	Legionella Environmental Culture Test - New York	Status:	Complete 07/05/2018
Result:	Not Detected		
Volume Examined:	0.1 mL of processed sample		

Approved by: Jack Rihs



Janet E. Stout, Ph.D.
 Director, Special Pathogens Laboratory

NOTES

Copper/Silver Analysis

- EPA Method 200.8; Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry
- Suggested target ranges for ions: Copper 0.2-0.8 mg/L; Silver 0.01-0.08 mg/L.
- Testing performed by ALS Environmental, PA DEP Lab Code: 22-293, Address: 34 Dogwood Lane, Middletown, PA 17057 or ALS Environmental, MN 998501, 3352 128th Ave Holland, Michigan 49424. Subcontractors test report is available upon request.

Legionella Environmental Culture Test - New York

- CFU/mL = Colony Forming Units per milliliter of sample
- Limit of detection (LOD): 10 CFU/mL for hot water tanks and non-potable water (cooling towers); 1-10 CFU/mL for potable water. If less than recommended volume is concentrated, sensitivity may be affected. If liter sample is processed, the LOD is <1 CFU/mL.
- Results are reported as Not Detected, Positive, or Uninterpretable.
- Uninterpretable result is due to culture overgrowth by non-Legionella bacteria
- Method: ISO 11731:2017 (E). QA/QC performed on the date processed. Turnaround time is 7-10 days.
- Certified for Legionella culture analysis by New York State Department of Health ELAP. ELAP lab ID no.12024
- Isolates saved upon request. Request must be received 1 week from receipt of report. Additional charges may apply.



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-On receipt, SPL lab checks samples for chlorine neutralization by sodium thiosulfate in the collection bottles. Neutralization of other biocides that may be present is not checked.

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