

ANALYTICAL REPORT

Job Number: 420-196072-1

SDG Number: Heritage MS

Job Description: Orange-Ulster BOCES

For:

Orange-Ulster BOCES

53 Gibson Road

Goshen, NY 10924

Attention: Jack DeGraw



Designee for

Meredith W Ruthven

Customer Service Manager

mruthven@envirotestlaboratories.com

07/01/2021

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories LLC certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative. All services performed by EnviroTest Laboratories LLC are subject to our Terms and Conditions available at Envirotestlabs/terms.com. As of 12/23/19, EnviroTest Laboratories LLC acquired substantially all of the lab and testing assets of EnviroTest Laboratories Inc, including its name.

EnviroTest Laboratories, LLC. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOH PH-0554

Envirotest Laboratories

315 Fullerton Avenue, Newburgh, NY 12550

Tel (845) 562-0890 Fax (845) 562-0841 www.envirotestlaboratories.com

METHOD SUMMARY

Client: Orange-Ulster BOCES

Job Number: 420-196072-1

SDG Number: Heritage MS

| Description | Lab Location | Method | Preparation Method |
|---|---------------------|-------------------|---------------------------|
| Matrix: Water | | | |
| ICPMS Metals by 200.8 | EnvTest | EPA 200.8 Rev.5.4 | |
| 200 Series Drinking Water Prep Determination Step | EnvTest | | EPA 200.7/200.8 |

Lab References:

EnvTest = EnviroTest

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Orange-Ulster BOCES

Job Number: 420-196072-1

SDG Number: Heritage MS

| Method | Analyst | Analyst ID |
|-------------------|----------------|-------------------|
| EPA 200.8 Rev.5.4 | Luis, Carlos | CL |

SAMPLE SUMMARY

Client: Orange-Ulster BOCES

Job Number: 420-196072-1

SDG Number: Heritage MS

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|----------------------|-------------------------|----------------------|------------------------------|-------------------------------|
| 420-196072-1 | Dish Room KS#1 | Drinking Water | 04/22/2021 0452 | 04/27/2021 1425 |
| 420-196072-2 | Dish Room KS#3 | Drinking Water | 04/22/2021 0452 | 04/27/2021 1425 |
| 420-196072-3 | Dish Room KSP #1 | Drinking Water | 04/22/2021 0454 | 04/27/2021 1425 |
| 420-196072-4 | Kitchen HS #1 | Drinking Water | 04/22/2021 0455 | 04/27/2021 1425 |
| 420-196072-5 | Kitchen KS #5 | Drinking Water | 04/22/2021 0458 | 04/27/2021 1425 |
| 420-196072-6 | Kitchen KS #6 | Drinking Water | 04/22/2021 0514 | 04/27/2021 1425 |
| 420-196072-7 | Kitchen KSP #2 | Drinking Water | 04/22/2021 0515 | 04/27/2021 1425 |
| 420-196072-8 | Kitchen KSP #3 | Drinking Water | 04/22/2021 0518 | 04/27/2021 1425 |
| 420-196072-9 | Kitchen KF #3 | Drinking Water | 04/22/2021 0518 | 04/27/2021 1425 |
| 420-196072-10 | Kitchen Serving Line KS | Drinking Water | 04/22/2021 0519 | 04/27/2021 1425 |
| 420-196072-11 | Boys Ground Floor BS #1 | Drinking Water | 04/22/2021 0523 | 04/27/2021 1425 |
| 420-196072-12 | Staff 2B KS | Drinking Water | 04/22/2021 0525 | 04/27/2021 1425 |
| 420-196072-13 | Kitchen KS #3 | Drinking Water | 04/22/2021 0513 | 04/27/2021 1425 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Dish Room KS#1
Lab Sample ID: 420-196072-1

Date Sampled: 04/22/2021 0452
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1253 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 7.81 | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Dish Room KS#3
Lab Sample ID: 420-196072-2

Date Sampled: 04/22/2021 0452
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1255 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 13.4 | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Dish Room KSP #1
Lab Sample ID: 420-196072-3

Date Sampled: 04/22/2021 0454
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1257 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 4.15 | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Kitchen HS #1
Lab Sample ID: 420-196072-4

Date Sampled: 04/22/2021 0455
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1300 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 9.25 | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Kitchen KS #5
Lab Sample ID: 420-196072-5

Date Sampled: 04/22/2021 0458
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|--------------------------------|------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: 06/29/2021 1308 | | |
| Prep Method: 200.7/200.8 | | | Date Prepared: 06/25/2021 1810 | | |
| Pb | 1.00 U | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Kitchen KS #6
Lab Sample ID: 420-196072-6

Date Sampled: 04/22/2021 0514
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution | |
|--------------------------|------------------|------|----------------|-----------------|----------|-----|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1311 | | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | | |
| Pb | 27.8 | g | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Kitchen KSP #2
Lab Sample ID: 420-196072-7

Date Sampled: 04/22/2021 0515
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|---------------------------|------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: 06/29/2021 | 1313 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: 06/25/2021 | 1810 | |
| Pb | 32.1 g | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Kitchen KSP #3
Lab Sample ID: 420-196072-8

Date Sampled: 04/22/2021 0518
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1315 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 5.64 | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Kitchen KF #3
Lab Sample ID: 420-196072-9

Date Sampled: 04/22/2021 0518
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1317 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 3.95 | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Kitchen Serving Line KS
Lab Sample ID: 420-196072-10

Date Sampled: 04/22/2021 0519
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1319 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 12.3 | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Boys Ground Floor BS #1
Lab Sample ID: 420-196072-11

Date Sampled: 04/22/2021 0523
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1321 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 3.65 | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Staff 2B KS
Lab Sample ID: 420-196072-12

Date Sampled: 04/22/2021 0525
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|--------------------------------|------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: 06/29/2021 1324 | | |
| Prep Method: 200.7/200.8 | | | Date Prepared: 06/25/2021 1810 | | |
| Pb | 1.00 U | ug/L | 1.00 | 1.00 | 1.0 |

Jack DeGraw
Orange-Ulster BOCES
53 Gibson Road
Goshen, NY 10924

Job Number: 420-196072-1
Sdg Number: Heritage MS

Client Sample ID: Kitchen KS #3
Lab Sample ID: 420-196072-13

Date Sampled: 04/22/2021 0513
Date Received: 04/27/2021 1425
Client Matrix: Drinking Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|--------------------------|------------------|------|----------------|-----------------|----------|
| Method: 200.8 Rev.5.4 | | | Date Analyzed: | 06/29/2021 1326 | |
| Prep Method: 200.7/200.8 | | | Date Prepared: | 06/25/2021 1810 | |
| Pb | 10.2 | ug/L | 1.00 | 1.00 | 1.0 |

DATA REPORTING QUALIFIERS

Client: Orange-Ulster BOCES

Job Number:
Sdg Number: Heritage MS

| Lab Section | Qualifier | Description |
|--------------------|------------------|--|
| Metals | g | Result fails applicable NYS drinking water standards |
| | U | The analyte was analyzed for but not detected at or above the lowest stated limit. |

Certification Information

Client: Orange-Ulster BOCES

Job Number:

Sdg Number: Heritage MS

The following analytes are Not Part of the ELAP scope of accreditation:

Sulfur, Tungsten, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Solids (Fixed), Solids (Percent), Solids (Percent Moisture), Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, 1,2,4,5-Tetramethylbenzene, 4-Ethyl toluene, p-Diethylbenzene, Iron Bacteria, Salmonella, Sulfur Reducing Bacteria, & UOD (Ultimate Oxygen Demand).

The following analytes are Not Part of ELAP Potable Water scope of accreditation:

Ammonia (SM 4500NH3G), Biochemical Oxygen Demand (SM 5210B), Chemical Oxygen Demand (EPA 410.4), Dissolved Oxygen (SM 4500 O C), TKN (351.2), Phosphorus (365.3), Nitrate-Nitrite (353.2), Setttable Solids (SM 2540F), Total Suspended Solids (SM 2540 C), m-Xylene & p-Xylene (502.2, 524), o-Xylene (502.2, 524), Sulfide (SM4500SD), Acenaphthene (525.2), Acenaphthylene (525.2), Fluoranthene (525.2), Fluorene (525.2), Phenanthrene (525.2), Anthracene (525.2), Pyrene (525.2), Benzo[a]anthracene (525.2), Benzo[b]fluoranthene (525.2), Benzo[g,h,i]perylene (525.2), Benzo[k]fluoranthene (525.2), Indeno[1,2,3-cd]pyrene (525.2), & Dibenz(a,h)anthracene (525.2). Pyridine

The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:

Dissolved Organic Carbon (5310C), Mecoprop (8151A), MCPA (8151A).

Definitions and Glossary

Client: Orange-Ulster BOCES

Job Number:

Sdg Number: Heritage MS

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|--|
| %R | Percent Recovery |
| DL, RA, RE | Indicates a Dilution, Reanalysis or Reextraction. |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent. |
| ND | Not detected at the reporting limit (or MDL if shown). |
| QC | Quality Control |
| RL | Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. |
| RPD | Relative Percent Difference - a measure of the relative difference between two points. |

EnviroTest Laboratories, LLC

315 Fullerton Avenue
Newburgh, NY 12550
Phone (845) 562-0890 Fax (845) 562-0841

Chain of Custody Record



| | | | | | |
|--------------------------------|--|------------------------|---|--|-----------------------------|
| Client Information | | Sampler: J DeGraw | Lab PM: | Deliverable Type: Level I, Level II, NYS ASP Cat B EDD (Specify): | JOB #: 196072 |
| Client Contact: Kevin Flynn | | Phone: 845-781-4887 | E-Mail: joseph.russo@oubores.org Halina.redner@oubores.org Maureen.doherty@oubores.org | | |

| | | | | | |
|---|--|---|--|--|---|
| Company: Orange-Ulster BOCES | | Analysis Requested | | | Page: Page 1 of 1 |
| Address: 53 Gibson Road | | Due Date Requested: Standard Turn-Around | | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - H2SO4 F - MeOH G - NH4CL H - Ascorbic Acid I - Ice J - DI Water K - Sodium Thiosulfate L - EDA - Sodium Sulfite N - None O - MCAA P - Other (specify) |
| City: Goshen | | TAT Requested (days): | | | |
| State, Zip: NY, 10924 | | PO #: | | | Other: D-Nitric Acid |
| Phone: 845-781-4887 | | PWS #: | | | |
| Email: joseph.russo@oubores.org Maureen.doherty@oubores.org | | Project #: | | Upon Receipt Preservation verified: Y / N | |
| Project Name: Newburgh ECSD | | Additional Contacts: | | Date Sampled: 4/22/2021 420-1677078 | |
| Site: Heritage MS | | | | | |



| Sample Date | Sample Time | Sample Identification | Client ID (Lab ID) | Sample Type (C=comp, S=solid, G=grab) | Matrix (DW=drinking water, W=water, S=solid, O=waste/oil) | Field Filtered | Perform MS/MS | Chlorine Present | Lead | Total Number of Containers | Special Instructions/Note: |
|-------------|-------------|-------------------------|--------------------|---------------------------------------|---|----------------|---------------|------------------|------|----------------------------|------------------------------|
| 4/22/21 | 452 | DISH ROOM KS #1 | | G | DW | | | | 1 | | |
| 4/22/21 | 452 | DISH ROOM KS #3 | | G | DW | | | | 1 | | |
| 4/22/21 | 454 | DISH ROOM KSP #1 | | G | DW | | | | 1 | | |
| 4/22/21 | 455 | KITCHEN HS #1 | | G | DW | | | | 1 | | |
| 4/22/21 | 458 | KITCHEN KS #5 | | G | DW | | | | 1 | | * Bottle added per client NE |
| 4/22/21 | 514 | KITCHEN KS #6 | | G | DW | | | | 1 | | |
| 4/22/21 | 515 | KITCHEN KSP #2 | | G | DW | | | | 1 | | |
| 4/22/21 | 518 | KITCHEN KSP #3 | | G | DW | | | | 1 | | |
| 4/22/21 | 518 | KITCHEN KF #3 | | G | DW | | | | 1 | | |
| 4/22/21 | 519 | KITCHEN SERVING LINE KS | | G | DW | | | | 1 | | |
| 4/22/21 | 523 | BOYS GROUND FLOOR BS #1 | | G | DW | | | | 1 | | |
| 4/22/21 | 525 | STAFF 2B KS | | G | DW | | | | 1 | | |
| 4/22/21 | 513 | Kitchen KS #3 | | G | DW | | | | 1 | | |
| 4/22/21 | | | | G | DW | | | | 1 | | |
| 4/22/21 | | | | G | DW | | | | 1 | | |

Container Code: P=Plastic, A=Amber, V=Vial, G=Glass, B=Bacteria, C=Cube, O=Other, T=Terracore, D=BOD Bottle

Preservation Added Upon Receipt: _____ Manufacturer/lot # _____ Date: _____ Time: _____ Sample # (s): _____ Container Type _____

| | | | | | |
|-------------------------------------|-------------------------|------------------|---------------------------------|--------------------------|-----------------------------|
| Relinquished by: <i>[Signature]</i> | Date/Time: 4/27/21 2:25 | Company: OUBOCES | Received by: <i>[Signature]</i> | Date/Time: 4/27/21 14:25 | Company: <i>[Signature]</i> |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |

ICE Present: Custody Seal No.: _____ Custody Seals Intact: Cooler Temperature(s) °C/IR GUN #: 19.7°C

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Orange-Ulster BOCES

Job Number: 420-196072-1

SDG Number: Heritage MS

Login Number: 196072

| Question | T/F/NA | Comment |
|--|--------|---------------------------------|
| Samples were collected by ETL employee as per SOP-SAM-1 | NA | |
| The cooler's custody seal, if present, is intact. | NA | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | False | |
| Cooler Temperature is recorded. | True | 19.7 C |
| Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C | False | |
| If false, was sample received on ice within 6 hours of collection. | False | |
| Based on above criteria cooler temperature is acceptable. | True | Method does not require cooling |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | NA | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |