



November 29, 2023

William Kotas
Intertek PSI
17 British American Boulevard
Latham, NY 12110

RE: Project: CENTER FOR ADVANCED TECHNOLOGY
Pace Project No.: 70279054

Dear William Kotas:

Enclosed are the analytical results for sample(s) received by the laboratory on November 14, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Lori Beyer".

Lori A. Beyer
lori.beyer@pacelabs.com
516-370-6014
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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SAMPLE SUMMARY

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|----------------|----------------|----------------|
| 70279054001 | C-1 | Drinking Water | 11/10/23 12:45 | 11/14/23 07:40 |
| 70279054002 | C-10 | Drinking Water | 11/10/23 12:37 | 11/14/23 07:40 |
| 70279054003 | C-11 | Drinking Water | 11/10/23 12:38 | 11/14/23 07:40 |
| 70279054004 | C-12 | Drinking Water | 11/10/23 12:38 | 11/14/23 07:40 |
| 70279054005 | C-39 | Drinking Water | 11/10/23 12:42 | 11/14/23 07:40 |
| 70279054006 | C-40 | Drinking Water | 11/10/23 12:42 | 11/14/23 07:40 |
| 70279054007 | C-50 | Drinking Water | 11/10/23 12:50 | 11/14/23 07:40 |
| 70279054008 | C-51 | Drinking Water | 11/10/23 12:43 | 11/14/23 07:40 |
| 70279054009 | C-52 | Drinking Water | 11/10/23 12:48 | 11/14/23 07:40 |

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SAMPLE ANALYTE COUNT

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|-----------|----------|-------------------|
| 70279054001 | C-1 | EPA 200.8 | JJS | 1 |
| 70279054002 | C-10 | EPA 200.8 | JJS | 1 |
| 70279054003 | C-11 | EPA 200.8 | JJS | 1 |
| 70279054004 | C-12 | EPA 200.8 | JJS | 1 |
| 70279054005 | C-39 | EPA 200.8 | JJS | 1 |
| 70279054006 | C-40 | EPA 200.8 | JJS | 1 |
| 70279054007 | C-50 | EPA 200.8 | JJS | 1 |
| 70279054008 | C-51 | EPA 200.8 | JJS | 1 |
| 70279054009 | C-52 | EPA 200.8 | JJS | 1 |

PACE-MV = Pace Analytical Services - Melville

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-1 | | Lab ID: 70279054001 | Collected: 11/10/23 12:45 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | |
|---------------------------------------|---------|---|---------------------------|--------------------------|------------------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:10 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-10 | | Lab ID: 70279054002 | Collected: 11/10/23 12:37 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | |
|---------------------------------------|---------|---|---------------------------|--------------------------|------------------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:15 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-11 | | Lab ID: 70279054003 | Collected: 11/10/23 12:38 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | |
|---------------------------------------|---------|---|---------------------------|--------------------------|------------------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:17 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-12 | | Lab ID: 70279054004 | Collected: 11/10/23 12:38 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | |
|---------------------------------------|---------|---|---------------------------|--------------------------|------------------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:18 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-39 | | Lab ID: 70279054005 | Collected: 11/10/23 12:42 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | |
|---------------------------------------|---------|---|---------------------------|--------------------------|------------------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:23 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-40 | Lab ID: 70279054006 | Collected: 11/10/23 12:42 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | | |
|---------------------------------------|---|---------------------------|--------------------------|------------------------|----------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:25 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-50 | Lab ID: 70279054007 | Collected: 11/10/23 12:50 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | | |
|---------------------------------------|---|---------------------------|--------------------------|------------------------|----------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:26 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-51 | | Lab ID: 70279054008 | Collected: 11/10/23 12:43 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | |
|---------------------------------------|---------|---|---------------------------|--------------------------|------------------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:28 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Sample: C-52 | | Lab ID: 70279054009 | Collected: 11/10/23 12:48 | Received: 11/14/23 07:40 | Matrix: Drinking Water | | | |
|---------------------------------------|---------|---|---------------------------|--------------------------|------------------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS Drinking Water | | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 11/16/23 15:29 | 7439-92-1 | |

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QUALITY CONTROL DATA

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| | | | |
|-------------------------|---|-----------------------|-------------------------------------|
| QC Batch: | 327867 | Analysis Method: | EPA 200.8 |
| QC Batch Method: | EPA 200.8 | Analysis Description: | 200.8 MET No Prep Drinking Water |
| | | Laboratory: | Pace Analytical Services - Melville |
| Associated Lab Samples: | 70279054001, 70279054002, 70279054003, 70279054004, 70279054005, 70279054006, 70279054007, 70279054008, 70279054009 | | |

| | | | |
|-------------------------|---|---------|-------|
| METHOD BLANK: | 1677025 | Matrix: | Water |
| Associated Lab Samples: | 70279054001, 70279054002, 70279054003, 70279054004, 70279054005, 70279054006, 70279054007, 70279054008, 70279054009 | | |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead | ug/L | <1.0 | 1.0 | 11/16/23 14:59 | |

| LABORATORY CONTROL SAMPLE: 1677026 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | 50 | 50.8 | 102 | 85-115 | |

| MATRIX SPIKE SAMPLE: 1677028 | | | | | | | |
|------------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 70277498042 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | <1.0 | 50 | 49.2 | 98 | 70-130 | |

| MATRIX SPIKE SAMPLE: 1677030 | | | | | | | |
|------------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 70277511001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | | | 48.5 | | | |

| SAMPLE DUPLICATE: 1677027 | | | | | | |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| Parameter | Units | 70277498042 Result | Dup Result | RPD | Max RPD | Qualifiers |
| Lead | ug/L | <1.0 | <1.0 | | 20 | |

| SAMPLE DUPLICATE: 1677029 | | | | | | |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| Parameter | Units | 70277511001 Result | Dup Result | RPD | Max RPD | Qualifiers |
| Lead | ug/L | | <1.0 | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTER FOR ADVANCED TECHNOLOGY

Pace Project No.: 70279054

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 70279054001 | C-1 | EPA 200.8 | 327867 | | |
| 70279054002 | C-10 | EPA 200.8 | 327867 | | |
| 70279054003 | C-11 | EPA 200.8 | 327867 | | |
| 70279054004 | C-12 | EPA 200.8 | 327867 | | |
| 70279054005 | C-39 | EPA 200.8 | 327867 | | |
| 70279054006 | C-40 | EPA 200.8 | 327867 | | |
| 70279054007 | C-50 | EPA 200.8 | 327867 | | |
| 70279054008 | C-51 | EPA 200.8 | 327867 | | |
| 70279054009 | C-52 | EPA 200.8 | 327867 | | |

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WO#: 70279054
PM: LAB Due Date: 11/30/23
CLIENT: INTER-LATHAM

Client Name: INTERTEK LEAD Project _____
 Courier: Fed Ex UPS USPS Client Commercial Pac Other _____
 Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Temperature Blank Present: Yes No
 Packing Material: Bubble Wrap Bubble Bags Ziplo None Other Type of Ice: Wet Blue None
 Thermometer Used: TH1108 Correction Factor: +0.3 Samples on ice, cooling process has begun
 Cooler Temperature(°C): 16.2 Cooler Temperature Corrected(°C): 16.5 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C
 USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: WJK 11/14/23

| | COMMENTS: |
|---|--|
| Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 1. |
| Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 2. |
| Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 3. |
| Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. |
| Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. |
| Rush Turn Around Time Requested <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7. |
| Sufficient Volume: (Triple volume provided for MS/MSD) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 8. |
| Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. |
| -Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. |
| Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. Note: if sediment is visible in the dissolved container. |
| Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 12. |
| -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER | |

Date and Initials of person checking preservation: WJK 11/14/23

| | |
|--|--|
| All containers needing preservation have been <u>HCl 20072</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl |
| pH paper Lot # _____ | Sample # _____ |
| All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A NAOH>12 Cyanide) | |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis | Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____ |
| Samples checked for dechlorination: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| KI starch test strips Lot # _____ | Positive for Res. Chlorine? Y N |
| Residual chlorine strips Lot # _____ | 15. Positive for Sulfide? Y N |
| SM 4500 CN samples checked for sul <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Lead Acetate Strips Lot # _____ | 16. |
| Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 17. |
| Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

DATE AND INITIALS OF PERSON COMPLETING SECOND REVIEW: WJK 11/14/23

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.