Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

26 December 2019

Michael Hamill
ECS-Chantilly
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151
RE: ACPS-TC

Enclosed are the results of analyses for samples received by the laboratory on 12/20/19 13:20.

Please visit our website at www.mdspectral.com for a complete listing of our accreditations.

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

Sincerely,



Cory Koons
Laboratory Manager

**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
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**MD DW LabID 153**

## Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

| Client Sample ID | Alternate Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|---|
| TC-230-C309 S | | 9122015-01 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-231-C309 S | | 9122015-02 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-232-C309 S | | 9122015-03 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-233-C309 S | | 9122015-04 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-234-A325 TDS | | 9122015-05 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-235A325 L S | | 9122015-06 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-236-Hallway by A332 | | 9122015-07 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-237-Hallway by A332 | | 9122015-08 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-238-A330 TDS | | 9122015-09 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-239-A327 TDS | | 9122015-10 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-241-A318 S | | 9122015-11 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-242-A318 TDS | | 9122015-12 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-243-A317 S1 | | 9122015-13 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-244-A317 S2 | | 9122015-14 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-245-A317 S3 | | 9122015-15 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-246-A317 S4 | | 9122015-16 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-247-A317 S5 | | 9122015-17 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-248-A317 S6 | | 9122015-18 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-249-A317 LS | | 9122015-19 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-250-Hall W U by A317 | | 9122015-20 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-251-Hall W L by A317 | | 9122015-21 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-252-A313 TDS | | 9122015-22 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-253-A313 S1 | | 9122015-23 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-254-A313 S2 | | 9122015-24 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-255-A313 S3 | | 9122015-25 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |



Cory Koons, Laboratory Manager

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## Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

| Client Sample ID | Alternate Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|---|
| TC-256-A313 S4 | | 9122015-26 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-257-A313 S5 | | 9122015-27 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-258-A313 S6 | | 9122015-28 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-259-A301 S | | 9122015-29 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |
| TC-240-A 301 RS | | 9122015-30 | Drinking Water | 12/20/19 00:00 | 12/20/19 13:20 |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-230-C309 S

**9122015-01 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **515** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:28 | VVD |
| **Lead** | **1.01** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:28 | VVD |

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**Project: ACPS-TC**

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Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-231-C309 S

**9122015-02 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **43.4** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:30 | VVD |
| **Lead** | **1.09** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:30 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-232-C309 S

**9122015-03 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **93.8** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:32 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:32 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-233-C309 S

**9122015-04 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **226** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:33 | VVD |
| **Lead** | **1.92** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:33 | VVD |

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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-234-A325 TDS

**9122015-05 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **110** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:35 | VVD |
| **Lead** | **1.19** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:35 | VVD |

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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

**TC-235A325 L S**

**9122015-06 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **165** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:37 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:37 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

**TC-236-Hallway by A332**

**9122015-07 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **31.4** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:41 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:41 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

**TC-237-Hallway by A332**

**9122015-08 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **29.5** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:43 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:43 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-238-A330 TDS

**9122015-09 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **80.0** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:45 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:45 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-239-A327 TDS

**9122015-10 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **34.1** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:46 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:46 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-241-A318 S

**9122015-11 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **339** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:55 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:55 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-242-A318 TDS

**9122015-12 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **290** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:56 | VVD |
| **Lead** | **3.06** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 13:56 | VVD |

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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

**TC-243-A317 S1**

**9122015-13 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **59.2** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:01 | VVD |
| **Lead** | **2.83** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:01 | VVD |

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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-244-A317 S2

**9122015-14 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **79.6** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:03 | VVD |
| **Lead** | **5.28** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:03 | VVD |



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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-245-A317 S3

**9122015-15 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **58.4** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:04 | VVD |
| **Lead** | **3.67** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:04 | VVD |

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Project Manager: Michael Hamill

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12/26/19 15:34

## TC-246-A317 S4

**9122015-16 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **61.9** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:06 | VVD |
| **Lead** | **3.24** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:06 | VVD |

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Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-247-A317 S5

**9122015-17 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **80.7** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:08 | VVD |
| **Lead** | **4.41** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:08 | VVD |

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**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-248-A317 S6

**9122015-18 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **143** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:09 | VVD |
| **Lead** | **6.41** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:09 | VVD |

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**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-249-A317 LS

**9122015-19 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **135** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:11 | VVD |
| **Lead** | **2.34** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:11 | VVD |

Cory Koons, Laboratory Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-250-Hall W U by A317

**9122015-20 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **47.1** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:13 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:13 | VVD |

Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-251-Hall W L by A317

**9122015-21 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **50.1** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:24 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:24 | VVD |

Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-252-A313 TDS

**9122015-22 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **61.1** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:26 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:26 | VVD |



Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-253-A313 S1

**9122015-23 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **59.7** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:27 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:27 | VVD |



Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-254-A313 S2

**9122015-24 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **82.8** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:29 | VVD |
| **Lead** | **2.26** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:29 | VVD |

Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-255-A313 S3

**9122015-25 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **93.9** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:31 | VVD |
| **Lead** | **2.86** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:31 | VVD |

Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-256-A313 S4

**9122015-26 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **65.8** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:32 | VVD |
| **Lead** | **3.43** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:32 | VVD |



Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-257-A313 S5

**9122015-27 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **54.1** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:34 | VVD |
| **Lead** | **2.89** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:34 | VVD |

Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

**TC-258-A313 S6**

**9122015-28 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **70.8** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:36 | VVD |
| **Lead** | **1.15** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:36 | VVD |



Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-259-A301 S

**9122015-29 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **225** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:41 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:41 | VVD |



Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TC-240-A 301 RS

**9122015-30 (Drinking Water)**
**Sample Date: 12/20/19**

| Analyte | Result | Notes | Units | Reporting Limit (MRL) | Detection Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| **TOTAL METALS ANALYSIS BY EPA 200.8 Prepared by 200.8-No Digestion Metals** | | | | | | | | | |
| **Copper** | **202** | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:42 | VVD |
| Lead | ND | | ug/L | 1.00 | 1.00 | 1 | 12/24/19 | 12/24/19 14:42 | VVD |

Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TOTAL METALS ANALYSIS BY EPA 200.8 - Quality Control

| Analyte | Result | Notes | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B912411 - 200.8-No Digestion Metals** | | | | | | | | | | |
| **Blank (B912411-BLK1)** | | | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | ND | | 1.00 | ug/L | | | | | | |
| Lead | ND | | 1.00 | ug/L | | | | | | |
| **Blank (B912411-BLK2)** | | | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | ND | | 1.00 | ug/L | | | | | | |
| Lead | ND | | 1.00 | ug/L | | | | | | |
| **Blank (B912411-BLK3)** | | | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | ND | | 1.00 | ug/L | | | | | | |
| Lead | ND | | 1.00 | ug/L | | | | | | |
| **LCS (B912411-BS1)** | | | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 9.86 | | 1.00 | ug/L | 10.0 | | 99 | 80-120 | | |
| Lead | 9.43 | | 1.00 | ug/L | 10.0 | | 94 | 80-120 | | |
| **LCS (B912411-BS2)** | | | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 9.66 | | 1.00 | ug/L | 10.0 | | 97 | 80-120 | | |
| Lead | 9.33 | | 1.00 | ug/L | 10.0 | | 93 | 80-120 | | |
| **LCS (B912411-BS3)** | | | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 9.22 | | 1.00 | ug/L | 10.0 | | 92 | 80-120 | | |
| Lead | 9.22 | | 1.00 | ug/L | 10.0 | | 92 | 80-120 | | |
| **Duplicate (B912411-DUP1)** | | **Source: 9122015-01** | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 513 | | 1.00 | ug/L | | 515 | | | 0.3 | 20 |
| Lead | 1.02 | | 1.00 | ug/L | | 1.01 | | | 0.9 | 20 |
| **Duplicate (B912411-DUP2)** | | **Source: 9122015-11** | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 341 | | 1.00 | ug/L | | 339 | | | 0.5 | 20 |
| Lead | ND | | 1.00 | ug/L | | ND | | | | 20 |



Cory Koons, Laboratory Manager

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1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## TOTAL METALS ANALYSIS BY EPA 200.8 - Quality Control

| Analyte | Result | Notes | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B912411 - 200.8-No Digestion Metals** | | | | | | | | | | |
| **Duplicate (B912411-DUP3)** | | **Source: 9122015-21** | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 50.4 | | 1.00 | ug/L | | 50.1 | | | 0.6 | 20 |
| Lead | ND | | 1.00 | ug/L | | ND | | | | 20 |
| **Matrix Spike (B912411-MS1)** | | **Source: 9122015-01** | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 511 | QM-4X | 1.00 | ug/L | 10.0 | 515 | NR | 80-120 | | |
| Lead | 10.7 | | 1.00 | ug/L | 10.0 | 1.01 | 97 | 80-120 | | |
| **Matrix Spike (B912411-MS2)** | | **Source: 9122015-11** | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 341 | QM-4X | 1.00 | ug/L | 10.0 | 339 | 23 | 80-120 | | |
| Lead | 9.46 | | 1.00 | ug/L | 10.0 | ND | 95 | 80-120 | | |
| **Matrix Spike (B912411-MS3)** | | **Source: 9122015-21** | | | Prepared & Analyzed: 12/24/19 | | | | | |
| Copper | 57.6 | QM-4X | 1.00 | ug/L | 10.0 | 50.1 | 75 | 80-120 | | |
| Lead | 8.83 | | 1.00 | ug/L | 10.0 | ND | 88 | 80-120 | | |



Cory Koons, Laboratory Manager

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**1500 Caton Center Dr Suite G**
**Baltimore MD 21227**
**410-247-7600**
**www.mdspectral.com**
**MD DW LabID 153**

**Project: ACPS-TC**

Project Number: 47:1519-K
Project Manager: Michael Hamill

**Reported:**
12/26/19 15:34

## Notes and Definitions

| | |
|---|---|
| QM-4X | The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits. |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| %-Solids | Percent Solids is a supportive test and as such does not require accredidation |



Cory Koons, Laboratory Manager

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| ECS Mid-Atlantic, LLC | Project Manager: Michael Hamill |
|---|---|
| Project Name: ACPS Water Sampling | Project ID: 47:1519-K |
| Sampler(s): ACF/MPH | P.O. Number: 47:1519-K |

# CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

| Field Sample ID | Date | Time | Water | Soil | Other | No. of Containers | Lead (200.8DW-Pb) | Copper (200.8DW-Cu) | Preservative: 1 + 1 HCL, $H_2SO_4$, Methanol, $Na_2S_2O_3$, $NaHCO_3$ | Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank | MSS Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TC-230-C309S | 12/20 | 6:24 | X | | | 1 | | | $HNO_3$ | pH: | 9122015-01 |
| TC-231-C309S | | | X | | | 1 | | | $HNO_3$ | pH: | -02 |
| TC-232-C309S | | | X | | | 1 | | | $HNO_3$ | pH: | -03 |
| TC-233-C309S | | | X | | | 1 | | | $HNO_3$ | pH: | -04 |
| TC-234-A325TDS | | | X | | | 1 | | | $HNO_3$ | pH: | -05 |
| TC-235-A325S | | | X | | | 1 | | | $HNO_3$ | pH: | -06 |
| TC-236-Hallway by A332 | | | X | | | 1 | | | $HNO_3$ | pH: | -07 |
| TC-237-Hall WC by A337 | | | X | | | 1 | | | $HNO_3$ | pH: | -08 |
| TC-238-A330TDS | | | X | | | 1 | | | $HNO_3$ | pH: | -09 |
| TC-239-A327TDS | | | X | | | 1 | | | $HNO_3$ | pH: | -10 |

Analysis Requested

| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | Received by: (Signature) |
|---|---|---|---|---|---|
| (Printed) [redacted] Anna Francisco | 12/20/19 8:05 | (Printed) | (Printed) | | (Printed) |
| Relinquished by: (Signature) | Date/Time | Received by Lab: (Signature) | | | |
| (Printed) | 12/20/19 1320 | (Printed) Samantha Adrian | | | |

**Turn Around Time:**
- ☐ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☒ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

**Lab Use:**
Temp: 17 °C
- ☐ Received on Ice
- ☑ Received same day
- ☐ Preservation Appropriate

**Sample Disposal:**
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

**Delivery Method:**
- ☒ Courier
- ☐ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: _____

**Special Instructions/QC Requirements & Comments:**

MSS-F001-03/13

# CHAIN-OF-CUSTODY RECORD

| | |
|---|---|
| ECS Mid-Atlantic, LLC | Project Manager: Michael Hamill |
| Project Name: ACPS Water Sampling | Project ID: 47:1519-K |
| Sampler(s): ACF/MPH | P.O. Number: 47:1519-K |

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water) PW (potable water)

| Field Sample ID | Date | Time | Water | Soil | Other | No. of Containers | Analysis Requested: Lead (200.8DW-Pb) | Analysis Requested: Copper (200.8DW-Cu) | Preservative: 1+1 HCL, $H_2SO_4$, Methanol, $Na_2S_2O_3$, $NaHCO_3$ | Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank | MSS Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TC-241-A3185 | 12/20 | | X | | | 1 | | | $HNO_3$ | pH: | 9122015-11 |
| TC-242-A317tds | | | X | | | 1 | | | $HNO_3$ | pH: | -12 |
| TC-243-A31751 | | | X | | | 1 | | | $HNO_3$ | pH: | -13 |
| TC-244-A31752 | | | X | | | 1 | | | $HNO_3$ | pH: | -14 |
| TC-245-A31753 | | | X | | | 1 | | | $HNO_3$ | pH: | -15 |
| TC-246-A31754 | | | X | | | 1 | | | $HNO_3$ | pH: | -16 |
| TC-247-A31755 | | | X | | | 1 | | | $HNO_3$ | pH: | -17 |
| TC-248-A31756 | | | X | | | 1 | | | $HNO_3$ | pH: | -18 |
| TC-249-A31725 | | | X | | | 1 | | | $HNO_3$ | pH: | -19 |
| TC-250-hall wu by A317 | | | X | | | 1 | | | $HNO_3$ | pH: | -20 |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: (Signature) CGB | Date/Time 12/20/19 | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | Received by: (Signature) |
| (Printed) [redacted] Categ Bourne | | (Printed) | (Printed) | | (Printed) |
| Relinquished by: (Signature) | Date/Time 1320 12/20/19 | Received by Lab: (Signature) | Turn Around Time: | Lab Use: | |
| (Printed) | | (Printed) Samantha Adrian | ☐ Normal (7 day) ☐ 5 day ☐ 4 day ☒ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: ____ ☐ Specific Due Date: ____ | Temp: 17 °C ☐ Received on Ice ☑ Received same day ☐ Preservation Appropriate | |

**Delivery Method:**
☒ Courier
☐ Client
☐ UPS
☐ FedEx
☐ USPS
☐ Other: ____

**Special Instructions/QC Requirements & Comments:**

**Sample Disposal:**
☐ Return to Client
☐ Disposal by lab
☐ Archive for ____ days

MSS-F001-03/13

| ECS Mid-Atlantic, LLC | Project Manager: Michael Hamill |
|---|---|
| Project Name: ACPS Water Sampling | Project ID: 47:1519-K |
| Sampler(s): ACF/MPH | P.O. Number: 47:1519-K |

# CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdsspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Analysis Requested: Lead (200.8DW-Pb); Copper (200.8DW-Cu)

| Field Sample ID | Date | Time | Water | Soil | Other | No. of Containers | Preservative: 1+1 HCL, $H_2SO_4$, Methanol, $Na_2S_2O_3$, $NaHCO_3$ | Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank | MSS Lab ID |
|---|---|---|---|---|---|---|---|---|---|
| TC-251-hall wL by A317 | 12/20 | | X | | | 1 | $HNO_3$ | pH: | 9122015-21 |
| TC-252 - A313 TDS | | | X | | | 1 | $HNO_3$ | pH: | -22 |
| TC-253 - A31351 | | | X | | | 1 | $HNO_3$ | pH: | -23 |
| TC-254 - A31352 | | | X | | | 1 | $HNO_3$ | pH: | -24 |
| TC-255 - A31353 | | | X | | | 1 | $HNO_3$ | pH: | -25 |
| TC-256 A31354 | | | X | | | 1 | $HNO_3$ | pH: | -26 |
| TC-257 - A31355 | | | X | | | 1 | $HNO_3$ | pH: | -27 |
| TC-258 - A31356 | | | X | | | 1 | $HNO_3$ | pH: | -28 |
| TC-259 A301S | | | X | | | 1 | $HNO_3$ | pH: | -29 |
| TC-~~260~~ 240 A301RS | | | X | | | 1 | $HNO_3$ | pH: | -30 |

| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | Received by: (Signature) |
|---|---|---|---|---|---|
| CGB | 12/20/19 | | | | |
| (Printed) Cates Bourne | | (Printed) | (Printed) | | (Printed) |
| Relinquished by: (Signature) | Date/Time | Received by Lab: (Signature) | | | |
| | 12/20/19 1320 | | | | |
| (Printed) | | (Printed) Samantha Adhan | | | |

**Turn Around Time:**
- ☐ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☒ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

**Lab Use:**
Temp: 17 °C
- ☐ Received on Ice
- ☒ Received same day
- ☐ Preservation Appropriate

**Sample Disposal:**
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

**Delivery Method:**
- ☒ Courier
- ☐ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: _____

**Special Instructions/QC Requirements & Comments:**

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