Potable Water 1,1,1,2-Tetrachloroethane

Scores for Matrix: Potable Water

Analyte: 1,1,1,2-Tetrachloroethane
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 15.7 ug/L
Limits: 12.6 to 18.8 ug/L
Basis: Fixed Percent (2)
Robust Mean: 15.3 ug/L
Std Dev: 1.2488 ug/L
Median: 15.1 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 31 Fail: 0 Total: 31

Shipment: 412 Matrix: Potable Water

Analyte: 1,1,1,2-Tetrachloroethane
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 15.7 ug/L
Limits: 12.6 to 18.8 ug/L
Basis: Fixed Percent (2)
Robust Mean: 15.3 ug/L
Std Dev: 1.2488 ug/L
Median: 15.1 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 31 Fail: 0 Total: 31

Potable Water 1,1,1-Trichloroethane

Scores for Matrix: Potable Water

Analyte: 1,1,1-Trichloroethane
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 11 ug/L
Limits: 8.8 to 13.2 ug/L
Basis: Fixed Percent (2)
Robust Mean: 10.9 ug/L
Std Dev: 2.8922 ug/L
Median: 10.9 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 28 Fail: 2 Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Shipment: 412 Matrix: Potable Water

Analyte: 1,1,1-Trichloroethane
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 11 ug/L
Limits: 8.8 to 13.2 ug/L
Basis: Fixed Percent (2)
Robust Mean: 10.9 ug/L
Std Dev: 0 ug/L
Median: 10.9 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1 Fail: 0 Total: 1

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Shipment: 412 Matrix: Potable Water

Analyte: 1,1,1-Trichloroethane
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 11 ug/L
Limits: 8.8 to 13.2 ug/L
Basis: Fixed Percent (2)
Robust Mean: 10.9 ug/L
Std Dev: 0 ug/L
Median: 10.9 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1 Fail: 0 Total: 1

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 1,1,2-Trichloroethane

Scores for Matrix: Potable Water

Analyte: 1,1,2-Trichloroethane
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 11 ug/L
Limits: 8.8 to 13.2 ug/L
Basis: Fixed Percent (2)
Robust Mean: 10.1 ug/L
Std Dev: 0 ug/L
Median: 10.1 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 28 Fail: 2 Total: 30

Score Date: 05/18/2018
Shipments: 412  
Matrix: Potable Water

Analyte: 1,1,2-Trichloroethane

Sample: 1220

Technology: GC-MS

Prep Method:
Target: 16.4  ug/L
Limits: 13.1 to 19.7 ug/L
Basis: Fixed Percent (2)

Robust Mean: 16.2  ug/L

Std Dev: 1.168  ug/L

Median: 16.2  ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 29  Fail: 0  Total: 29

Fail: 0  Labs: Pass: 30  Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Shipments: 412  
Matrix: Potable Water

Analyte: 1,1,2-Trichloroethane

Sample: 1220

Technology: GCELCD/PID

Prep Method:
Target: 16.4  ug/L
Limits: 13.1 to 19.7 ug/L
Basis: Fixed Percent (2)

Robust Mean: 16.3  ug/L

Std Dev: 0  ug/L

Median: 16.3 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1  Fail: 0  Total: 1

Fail: 0  Labs: Pass: 30  Total: 30

Shipments: 412  
Matrix: Potable Water

Analyte: 1,1-Dichloroethane

Sample: 1220

Technology: GC-MS

Prep Method:
Target: 17.6  ug/L
Limits: 14.1 to 21.1 ug/L
Basis: Fixed Percent (2)

Robust Mean: 17.6  ug/L

Std Dev: 1.822  ug/L

Median: 17.8  ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 27  Fail: 2  Total: 29

Fail: 2  Labs: Pass: 28  Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Shipments: 412  
Matrix: Potable Water

Analyte: 1,1-Dichloroethane

Sample: 1220

Technology: GCELCD/PID

Prep Method:
Target: 17.6  ug/L
Limits: 14.1 to 21.1 ug/L
Basis: Fixed Percent (2)

Robust Mean: 16  ug/L

Std Dev: 0  ug/L

Median: 16  ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1  Fail: 0  Total: 1

Fail: 0  Labs: Pass: 30  Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Shipments: 412  
Matrix: Potable Water

Analyte: 1,1-Dichloroethene

Sample: 1220

Technology: GCELCD/PID

Prep Method:
Target: 17.6  ug/L
Limits: 14.1 to 21.1 ug/L
Basis: Fixed Percent (2)

Robust Mean: 16  ug/L

Std Dev: 0  ug/L

Median: 16  ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1  Fail: 0  Total: 1

Fail: 0  Labs: Pass: 30  Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Score Date: 05/18/2018

Proficiency Test Statistics
Potable Water 1,1-Dichloroethene

Shipments: 412
Matrix: Potable Water
Analyte: 1,1-Dichloroethene
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 18.3 ug/L
Limits: 14.6 to 22 ug/L
Basis: Fixed Percent (2)
Robust Mean: 17.7 ug/L
Std Dev: 3.9838 ug/L
Median: 18.3 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 29 Fail: 1 Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 1,1-Dichloropropene

Shipments: 412
Matrix: Potable Water
Analyte: 1,1-Dichloroethene
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 14.6 ug/L
Limits: 11.7 to 17.5 ug/L
Basis: Fixed Percent (2)
Robust Mean: 15 ug/L
Std Dev: 1.5275 ug/L
Median: 14.85 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 29 Fail: 1 Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Score Date: 05/18/2018
Proficiency Test Statistics
Page 3 of 76
Potable Water 1,2,3-Trichlorobenzene

Test Results (End Groups Include Outliers)

Number of Labs

0 1 2 3 4 5 6

20.8 21.8 22.8 23.9 24.9 25.9 27 28 29

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 1,2,3-Trichloropropane

Test Results (End Groups Include Outliers)

Number of Labs

0 1 2 3 4 5 6

10.4 11.4 12 12.5 13 13.6 14.1 14.6

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 1,2,4-Trichlorobenzene

Score Date: 05/18/2018

Proficiency Test Statistics
Potable Water 1,2,4-Trichlorobenzene

Test Results (End Groups Include Outliers)

- **Number of Labs**: 12.9, 14.4, 15.2, 15.9, 16.6, 17.4, 18.1, 18.9

- **Fail**: 3
- **Pass**: 27
- **Total**: 30

**Totals for Matrix/Analyte/Technology**:
- Labs: 26
- Fail: 3
- Total: 29

**Totals for Matrix/Analyte**:
- Labs: 30
- Fail: 0
- Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 1,2,4-Trimethylbenzene

Test Results (End Groups Include Outliers)

- **Number of Labs**: 8.6, 9.1, 9.5, 9.9, 10.3, 10.7, 11.2, 11.6

- **Fail**: 0
- **Pass**: 31
- **Total**: 31

**Totals for Matrix/Analyte/Technology**:
- Labs: 30
- Fail: 0
- Total: 30

**Totals for Matrix/Analyte**:
- Labs: 31
- Fail: 0
- Total: 31

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Score Date: 05/18/2018
Potable Water 1,2-Dibromo-3-chloropropane

Sample: 1222
Technology: GC-ECD
Prep Method:
Target: 0.883 ug/L
Limits: 0.53 to 1.24 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 0.8 ug/L
Std Dev: 0.2033 ug/L
Median: 0.835 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 20 Fail: 0 Total: 20

Potable Water 1,2-Dichloroethane

Sample: 1220
Technology: GC-MS
Prep Method:
Target: 2.72 ug/L
Limits: 1.63 to 3.81 ug/L
Basis: Fixed Percent (2)
Robust Mean: 2.7 ug/L
Std Dev: 0.5365 ug/L
Median: 2.71 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 28 Fail: 1 Total: 29

Potable Water 1,2-Dichloroethane

Sample: 1220
Technology: GC-ECD/PID
Prep Method:
Target: 2.72 ug/L
Limits: 1.63 to 3.81 ug/L
Basis: Fixed Percent (2)
Robust Mean: 3 ug/L
Std Dev: 0 ug/L
Median: 3.01 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1 Fail: 0 Total: 1

Potable Water 1,2-Dichlorobenzene

Sample: 1221
Technology: GC-MS
Prep Method:
Target: 5.17 ug/L
Limits: 3.1 to 7.24 ug/L
Basis: Fixed Percent (2)
Robust Mean: 5.2 ug/L
Std Dev: 0.4288 ug/L
Median: 5.16 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 29 Fail: 0 Total: 29

A histogram is not displayed for Technology: GC-ECD/PID due to the limited number of participants.
Potable Water 1,2-Dichlorobenzene

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** 1,2-Dichlorobenzene  
**Sample:** 1221  
**Technology:** GCELCD/PID  
**Prep Method:**  
  **Target:** 5.17 ug/L  
  **Limits:** 3.1 to 7.24 ug/L  
  **Basis:** Fixed Percent (2)  
  **Robust Mean:** 5.1 ug/L  
  **Median:** 5.07 ug/L  

**Test Results (End Groups Include Outliers)**

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**Totals for Matrix/Analyte/Technology:**

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**Upper Limits:** 3.1 to 7.24 ug/L  
**Target:** 5.17 ug/L  

**Robust Mean:** 5.1 ug/L  
**Median:** 5.07 ug/L

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

---

Potable Water cis-1,2-Dichloroethene

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** cis-1,2-Dichloroethene  
**Sample:** 1220  
**Technology:** GC-MS  
**Prep Method:**  
  **Target:** 9.06 ug/L  
  **Limits:** 5.44 to 12.7 ug/L  
  **Basis:** Fixed Percent (2)  
  **Robust Mean:** 8.8 ug/L  
  **Median:** 8.81 ug/L

**Test Results (End Groups Include Outliers)**

Number of Labs

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**Upper Limits:** 5.44 to 12.7 ug/L  
**Target:** 9.06 ug/L

**Robust Mean:** 8 ug/L  
**Median:** 7.99 ug/L

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

---

Potable Water 1,2-Dichloropropane

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** 1,2-Dichloropropane  
**Sample:** 1220  
**Technology:** GC-MS  
**Prep Method:**  
  **Target:** 3.44 ug/L  
  **Limits:** 2.06 to 4.82 ug/L  
  **Basis:** Fixed Percent (2)  
  **Robust Mean:** 3.4 ug/L  
  **Median:** 3.39 ug/L

**Test Results (End Groups Include Outliers)**

Number of Labs

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**Totals for Matrix/Analyte/Technology:**

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**Upper Limits:** 2.06 to 4.82 ug/L  
**Target:** 3.44 ug/L

**Robust Mean:** 3.4 ug/L  
**Median:** 3.39 ug/L

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

---

Score Date: 05/18/2018  
Proficiency Test Statistics  
Page 7 of 76
**Potable Water 1,2-Dichloropropane**

- **Shipments:** 412
- **Matrix:** Potable Water
- **Analyte:** 1,2-Dichloropropane
- **Sample:** 1220
- **Technology:** GC-ECD/PID
- **Prep Method:**
  - **Target:** 3.44 ug/L
  - **Limits:** 2.06 to 4.82 ug/L
  - **Basis:** Fixed Percent (2)
- **Robust Mean:** 3.6 ug/L
  - **Std Dev:** 0 ug/L
  - **Median:** 3.59 ug/L

**Totals for Matrix/Analyte/Technology:**

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**A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.**

**Shipment:** 412  
**Matrix:** Potable Water  
**Analyte:** 1,2-Dibromoethane

**Sample:** 1222
**Technology:** GC-ECD
**Prep Method:**
- **Target:** 1.46 ug/L
- **Limits:** 0.876 to 2.04 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 1.4 ug/L
  - **Std Dev:** 0.166 ug/L
  - **Median:** 1.44 ug/L

**Totals for Matrix/Analyte/Technology:**

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**Potable Water 1,3-Dichlorobenzene**

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** 1,3-Dichlorobenzene

**Sample:** 1221
**Technology:** GC-MS
**Prep Method:**
- **Target:** 5.94 ug/L
- **Limits:** 3.56 to 8.32 ug/L
- **Basis:** Fixed Percent (2)
- **Robust Mean:** 5.9 ug/L
  - **Std Dev:** 0.4565 ug/L
  - **Median:** 5.81 ug/L

**Totals for Matrix/Analyte/Technology:**

<table>
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**Totals for Matrix/Analyte:**

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**Potable Water 1,3-Dichlorobenzene**

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** 1,3-Dichlorobenzene

**Sample:** 1221
**Technology:** GC-ECD/PID
**Prep Method:**
- **Target:** 5.94 ug/L
- **Limits:** 3.56 to 8.32 ug/L
- **Basis:** Fixed Percent (2)
- **Robust Mean:** 5.4 ug/L
  - **Std Dev:** 0 ug/L
  - **Median:** 5.44 ug/L

**Totals for Matrix/Analyte/Technology:**

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**Totals for Matrix/Analyte:**

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<tbody>
<tr>
<td>31</td>
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**Potable Water 1,3-Dichloropropane**

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** 1,3-Dichloropropane

**Sample:** 1220
**Technology:** GC-ECD/PID
**Prep Method:**
- **Target:** 5.94 ug/L
- **Limits:** 3.56 to 8.32 ug/L
- **Basis:** Fixed Percent (2)
- **Robust Mean:** 5.4 ug/L
  - **Std Dev:** 0 ug/L
  - **Median:** 5.44 ug/L

**Totals for Matrix/Analyte/Technology:**

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**Totals for Matrix/Analyte:**

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<tbody>
<tr>
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</table>
Potable Water 1,3-Dichloropropane

Shipment: 412  
Matrix: Potable Water

Analyte: 1,3-Dichloropropane

Sample: 1220

Technology: GC-MS

Prep Method:

Target: 3.96 ug/L

Limits: 2.38 to 5.54 ug/L

Basis: Fixed Percent (2)

Robust Mean: 3.8 ug/L

Std Dev: 0.3047 ug/L

Median: 3.72 ug/L

Totals for Matrix/Analyte/Technology:

Labs: Pass: 30  
Fail: 0  
Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 1,4-Dichlorobenzene

Shipment: 412  
Matrix: Potable Water

Analyte: 1,4-Dichlorobenzene

Sample: 1221

Technology: GC-MS

Prep Method:

Target: 17.6 ug/L

Limits: 14.1 to 21.1 ug/L

Basis: Fixed Percent (2)

Robust Mean: 17 ug/L

Std Dev: 1.1862 ug/L

Median: 16.9 ug/L

Totals for Matrix/Analyte/Technology:

Labs: Pass: 29  
Fail: 0  
Total: 29

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 2,2-Dichloropropane

Score Date: 05/18/2018

Proficiency Test Statistics  
Page 9 of 76
Potable Water 2,2-Dichloropropane

Test Results (End Groups Include Outliers)

Number of Labs

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Totals for Matrix/Analyte/Technology:

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Totals for Matrix/Analyte:

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<tr>
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</table>

Shipment: 412  Matrix: Potable Water
Analyte: 2,2-Dichloropropane
Sample: 1220
Technology: GC-MS
Prep Method:
Target: 4.05 ug/L
Limits: 2.43 to 5.67 ug/L
Basis: Fixed Percent (2)
Robust Mean: 3.9 ug/L
Std Dev: 0.5211 ug/L
Median: 3.75 ug/L

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 2,4-D

Test Results (End Groups Include Outliers)

Number of Labs

<table>
<thead>
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<th>Test Results (End Groups Include Outliers)</th>
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Totals for Matrix/Analyte/Technology:

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Totals for Matrix/Analyte:

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<th>Labs: Pass</th>
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</tr>
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<tbody>
<tr>
<td>11</td>
<td>0</td>
<td>11</td>
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</tbody>
</table>

Shipment: 412  Matrix: Potable Water
Analyte: 2,4-D
Sample: 1217
Technology: GC-ECD
Prep Method:
Target: 91.7 ug/L
Limits: 45.9 to 138 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 81.9 ug/L
Std Dev: 19.7786 ug/L
Median: 78.95 ug/L

A histogram is not displayed for Technology: HPLC-UV due to the limited number of participants.

Potable Water 2-Chlorotoluene

Score Date: 05/18/2018  Proficiency Test Statistics
Potable Water 2-Chlorotoluene

- Shipment: 412
- Matrix: Potable Water
- Analyte: 2-Chlorotoluene
- Sample: 1221
- Technology: GC-MS
- Prep Method:
- Target: 7.02 ug/L
- Limits: 4.21 to 9.83 ug/L
- Basis: Fixed Percent (2)
- Robust Mean: 7 ug/L
- Std Dev: 0.6714 ug/L
- Median: 7.03 ug/L

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water 3-Hydroxy Carbofuran

- Shipment: 412
- Matrix: Potable Water
- Analyte: 3-Hydroxy Carbofuran
- Sample: 1215
- Technology: HPLC-FLUOR
- Prep Method:
- Target: 73.4 ug/L
- Limits: 58.7 to 88.1 ug/L
- Basis: Target Value +/- a fixed percent
- Robust Mean: 66.7 ug/L
- Std Dev: 22,4307 ug/L
- Median: 68.3 ug/L

Potable Water 4-Chlorotoluene

- Shipment: 412
- Matrix: Potable Water
- Analyte: 4-Chlorotoluene
- Sample: 1221
- Technology: GC-MS
- Prep Method:
- Target: 13.6 ug/L
- Limits: 10.9 to 16.3 ug/L
- Basis: Fixed Percent (2)
- Robust Mean: 13 ug/L
- Std Dev: 1.3504 ug/L
- Median: 12.9 ug/L

Score Date: 05/18/2018
Potable Water 4-Chlorotoluene

Shipments: 412  Matrix: Potable Water
Analyte: 4-Chlorotoluene
Sample: 1221
Technology: GCELCD/PID
Prep Method:
Target: 13.6 μg/L
Limits: 10.9 to 16.3 μg/L
Basis: Fixed Percent (2)
Robust Mean: 12.1 μg/L
Std Dev: 0 μg/L
Median: 12.1 μg/L

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1  Fail: 0  Total: 1

Potable Water Acifluorofen

Shipments: 412  Matrix: Potable Water
Analyte: Acifluorofen
Sample: 1217
Technology: GC-ECD
Prep Method:
Target: 34.4 μg/L
Limits: 17.2 to 51.6 μg/L
Basis: Target Value +/- a fixed percent
Robust Mean: 37.1 μg/L
Std Dev: 0.8485 μg/L
Median: 37.1 μg/L

A histogram is not displayed for Technology: GC-ECD due to the limited number of participants.

Totals for Matrix/Analyte/Technology:
Labs: Pass: 2  Fail: 0  Total: 2

Potable Water Acifluorofen

Shipments: 412  Matrix: Potable Water
Analyte: Acifluorofen
Sample: 1217
Technology: HPLC-UV
Prep Method:
Target: 34.4 μg/L
Limits: 17.2 to 51.6 μg/L
Basis: Target Value +/- a fixed percent
Robust Mean: 30.9 μg/L
Std Dev: 0 μg/L
Median: 30.9 μg/L

A histogram is not displayed for Technology: HPLC-UV due to the limited number of participants.

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1  Fail: 0  Total: 1

Potable Water Silver, Total

Shipments: 412  Matrix: Potable Water
Analyte: Silver, Total
Sample: 1206
Technology: FAAS
Prep Method:
Target: 175 μg/L
Limits: 123 to 228 μg/L
Basis: Target Value +/- a fixed percent
Robust Mean: 171.5 μg/L
Std Dev: 4.9497 μg/L
Median: 171.5 μg/L

A histogram is not displayed for Technology: FAAS due to the limited number of participants.

Totals for Matrix/Analyte/Technology:
Labs: Pass: 2  Fail: 0  Total: 2

Score Date: 05/18/2018
Potable Water Silver, Total

A histogram is not displayed for Technology: GFAAS due to the limited number of participants.

Potable Water Silver, Total

Test Results (End Groups Include Outliers)

Potable Water Silver, Total

Potable Water Silver, Total

Potable Water Aluminum, Total

Proficiency Test Statistics

Page 13 of 76
<table>
<thead>
<tr>
<th>Shipment</th>
<th>Matrix: Potable Water</th>
<th>Analyte:</th>
<th>Sample</th>
<th>Technology:</th>
<th>Prep Method:</th>
<th>Target</th>
<th>Limits</th>
<th>Basis:</th>
<th>Robust Mean</th>
<th>Std Dev</th>
<th>Median</th>
<th>Totals for Matrix/Analyte/Technology:</th>
</tr>
</thead>
<tbody>
<tr>
<td>412</td>
<td>Potable Water</td>
<td>Aluminum</td>
<td>1206</td>
<td>ICP-MS</td>
<td></td>
<td>750 ug/L</td>
<td>638 to 863 ug/L</td>
<td>Fixed Percent (2)</td>
<td>730.3 ug/L</td>
<td>41.1543 ug/L</td>
<td>745 ug/L</td>
<td>Labs: 23</td>
</tr>
<tr>
<td>412</td>
<td>Potable Water</td>
<td>Alachlor</td>
<td>1207B</td>
<td>GC-ECD</td>
<td></td>
<td>7.96 ug/L</td>
<td>4.38 to 11.5 ug/L</td>
<td>Target Value +/- a fixed percent</td>
<td>7.7 ug/L</td>
<td>3.2675 ug/L</td>
<td>7.68 ug/L</td>
<td>Labs: 5</td>
</tr>
<tr>
<td>412</td>
<td>Potable Water</td>
<td>Alachlor</td>
<td>1207B</td>
<td>GC-MS</td>
<td></td>
<td>7.96 ug/L</td>
<td>4.38 to 11.5 ug/L</td>
<td>Target Value +/- a fixed percent</td>
<td>8 ug/L</td>
<td>0.8724 ug/L</td>
<td>7.7 ug/L</td>
<td>Labs: 11</td>
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<tr>
<td>412</td>
<td>Potable Water</td>
<td>Aldicarb</td>
<td>1215</td>
<td>HPLC-FLUOR</td>
<td></td>
<td>77.6 ug/L</td>
<td>58.2 to 97 ug/L</td>
<td>Target Value +/- a fixed percent</td>
<td>77.5 ug/L</td>
<td>7.3128 ug/L</td>
<td>78.5 ug/L</td>
<td>Labs: 9</td>
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Score Date: 05/18/2018

Proficiency Test Statistics
Shipments: 412  
Matrix: Potable Water  
Analyte: Aldrin  
Sample: 1207A  
Technology: GC-ECD  
Prep Method:  
Target: 1.62 ug/L  
Limits: 0.728 to 2.06 ug/L  
Basis: Linear Regression  
Robust Mean: 1.3 ug/L  
Std Dev: 0.1668 ug/L  
Median: 1.35 ug/L  

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 11  
Fail: 0  
Total: 11

Potable Water Aldrin  
Number of Labs  
Test Results (End Groups Include Outliers)  

Shipments: 412  
Matrix: Potable Water  
Analyte: Aldrin  
Sample: 1207A  
Technology: GC-MS  
Prep Method:  
Target: 1.62 ug/L  
Limits: 0.728 to 2.06 ug/L  
Basis: Linear Regression  
Robust Mean: 1.3 ug/L  
Std Dev: 0.1696 ug/L  
Median: 1.33 ug/L  

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 7  
Fail: 0  
Total: 7

Potable Water Aldrin  
Number of Labs  
Test Results (End Groups Include Outliers)  

Shipments: 412  
Matrix: Potable Water  
Analyte: Aldicarb Sulfone  
Sample: 1215  
Technology: HPLC-FLUOR  
Prep Method:  
Target: 66.2 ug/L  
Limits: 49.7 to 82.8 ug/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 66.5 ug/L  
Std Dev: 5.0777 ug/L  
Median: 65.1 ug/L  

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 9  
Fail: 0  
Total: 9

Potable Water Aldicarb Sulfone  
Number of Labs  
Test Results (End Groups Include Outliers)  

Shipments: 412  
Matrix: Potable Water  
Analyte: Alkalinity  
Sample: 1201  
Technology: COLOR  
Prep Method:  
Target: 171 mg/L  
Limits: 154 to 186 mg/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 179 mg/L  
Std Dev: 126.5721 mg/L  
Median: 183.5 mg/L  

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 2  
Fail: 0  
Total: 2

Potable Water Alkalinity  
Number of Labs  
Test Results (End Groups Include Outliers)  

A histogram is not displayed for  
Technology: COLOR  
due to the  
limited number of participants.
Potable Water Alkalinity

- **Matrix:** Potable Water
- **Analyte:** Alkalinity
- **Sample:** 1201
- **Technology:** TITR
- **Prep Method:**
  - **Target:** 171 mg/L
  - **Limits:** 154 to 188 mg/L
  - **Basis:** Target Value +/- a fixed percent
  - **Robust Mean:** 168.2 mg/L
  - **Std Dev:** 51.5995 mg/L
  - **Median:** 168 mg/L

**Test Results (End Groups Include Outliers):**
- **Total Number of Labs:** 164
- **Pass:** 159
- **Fail:** 5
- **Total:** 164

**Totals for Matrix/Analyte/Technology:**
- **Labs:** 51
- **Pass:** 47
- **Fail:** 4

**Robust Mean:** 168.2 mg/L
**Std Dev:** 51.5995 mg/L
**Median:** 168 mg/L

---

Potable Water Arsenic, Total

- **Matrix:** Potable Water
- **Analyte:** Arsenic, Total
- **Sample:** 1206
- **Technology:** GFAAS
- **Prep Method:**
  - **Target:** 17.6 ug/L
  - **Limits:** 12.3 to 22.9 ug/L
  - **Basis:** Target Value +/- a fixed percent
  - **Robust Mean:** 17.9 ug/L
  - **Std Dev:** 1.2303 ug/L
  - **Median:** 17.8 ug/L

**Test Results (End Groups Include Outliers):**
- **Total Number of Labs:** 39
- **Pass:** 39
- **Fail:** 0

**Robust Mean:** 17.9 ug/L
**Std Dev:** 1.2303 ug/L
**Median:** 17.8 ug/L

---

Potable Water Arsenic, Total

- **Matrix:** Potable Water
- **Analyte:** Arsenic, Total
- **Sample:** 1206
- **Technology:** ICP-AES
- **Prep Method:**
  - **Target:** 17.6 ug/L
  - **Limits:** 12.3 to 22.9 ug/L
  - **Basis:** Target Value +/- a fixed percent
  - **Robust Mean:** 17.5 ug/L
  - **Std Dev:** 0.6364 ug/L
  - **Median:** 17.45 ug/L

**Test Results (End Groups Include Outliers):**
- **Total Number of Labs:** 39
- **Pass:** 29
- **Fail:** 0

**Robust Mean:** 17.5 ug/L
**Std Dev:** 0.6364 ug/L
**Median:** 17.45 ug/L

---

Potable Water Arsenic, Total

- **Matrix:** Potable Water
- **Analyte:** Arsenic, Total
- **Sample:** 1206
- **Technology:** ICP-MS
- **Prep Method:**
  - **Target:** 17.6 ug/L
  - **Limits:** 12.3 to 22.9 ug/L
  - **Basis:** Target Value +/- a fixed percent
  - **Robust Mean:** 18.2 ug/L
  - **Std Dev:** 1.7833 ug/L
  - **Median:** 18.1 ug/L

**Test Results (End Groups Include Outliers):**
- **Total Number of Labs:** 39
- **Pass:** 29
- **Fail:** 0

**Robust Mean:** 18.2 ug/L
**Std Dev:** 1.7833 ug/L
**Median:** 18.1 ug/L

---

A histogram is not displayed for Technology: ICP-AES due to the limited number of participants.

---

**Score Date:** 05/18/2018

Proficiency Test Statistics

Page 16 of 76
**Potable Water Atrazine**

- **Sample**: 1207B
- **Technology**: GC-ECD
- **Prep Method**:
  - **Target**: 10.3 ug/L
  - **Limits**: 5.67 to 14.9 ug/L
  - **Basis**: Target Value +/- a fixed percent
- **Robust Mean**: 10.5 ug/L
  - **Std Dev**: 1.1803 ug/L
  - **Median**: 10.7 ug/L

**Totals for Matrix/Analyte/Technology**:
- Labs: Pass 8, Fail 2, Total 10
- Labs: Pass 3, Fail 0, Total 3

**Test Results (End Groups Include Outliers)**
- **Number of Labs**: 9, 10, 11
- **Number of Labs**: 0.5, 1, 1.5, 2, 2.5, 3

**Potable Water Di (2-ethylhexyl) adipate**

- **Sample**: 1208
- **Technology**: GC-MS
- **Prep Method**:
  - **Target**: 13.7 ug/L
  - **Limits**: 6.67 to 19.4 ug/L
  - **Basis**: Linear Regression
- **Robust Mean**: 14 ug/L
  - **Std Dev**: 2.9919 ug/L
  - **Median**: 13.495 ug/L

**Totals for Matrix/Analyte/Technology**:
- Labs: Pass 13, Fail 1, Total 14
- Labs: Pass 13, Fail 1, Total 14

**Potable Water Bis(2-ethylhexyl) phthalate**

- **Sample**: 1208
- **Technology**: GC-MS
- **Prep Method**:
  - **Target**: 16.5 ug/L
  - **Limits**: 8.28 to 24.8 ug/L
  - **Basis**: Linear Regression
- **Robust Mean**: 17.7 ug/L
  - **Std Dev**: 3.7069 ug/L
  - **Median**: 16.6 ug/L

**Totals for Matrix/Analyte/Technology**:
- Labs: Pass 14, Fail 0, Total 14
- Labs: Pass 14, Fail 0, Total 14

**Score Date**: 05/18/2018

**Proficiency Test Statistics**
Potable Water Barium, Total

**Shipments:**
- 412
- 1206

**Analyte:** Barium, Total

<table>
<thead>
<tr>
<th>Sample</th>
<th>1664</th>
<th>1697</th>
<th>1730</th>
<th>1763</th>
<th>1797</th>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

**Matrix:** Potable Water

**Technology:** ICP-AES

**Prep Method:**
- Target: 1720 ug/L
- Limits: 1460 to 1980 ug/L
- Basis: Target Value +/- a fixed percent

**Robust Mean:** 1754 ug/L
- Std Dev: 58.943 ug/L
- Median: 1750 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 23
- Fail: 0
- Total: 23

**Totals for Matrix/Analyte:**
- Labs: Pass: 51
- Fail: 1
- Total: 52

**Shipment:**
- 412
- 1206

**Analyte:** Barium, Total

**Sample:** 1206

**Technology:** ICP-MS

**Prep Method:**
- Target: 1720 ug/L
- Limits: 1460 to 1980 ug/L
- Basis: Target Value +/- a fixed percent

**Robust Mean:** 1717.7 ug/L
- Std Dev: 448.1219 ug/L
- Median: 1710 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 28
- Fail: 1
- Total: 29

**Totals for Matrix/Analyte:**
- Labs: Pass: 51
- Fail: 1
- Total: 52

**Potable Water Benzo(a)pyrene**

**Shipments:**
- 412
- 1209

**Analyte:** Benzo(a)pyrene

**Sample:** 1209

**Technology:** GC-MS

**Prep Method:**
- Target: 2.17 ug/L
- Limits: 0.92 to 2.75 ug/L
- Basis: Linear Regression

**Robust Mean:** 1.6 ug/L
- Std Dev: 0.4686 ug/L
- Median: 1.65 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 13
- Fail: 1
- Total: 14

**Totals for Matrix/Analyte:**
- Labs: Pass: 13
- Fail: 1
- Total: 14

**Potable Water Bromobenzene**

**Shipments:**
- 412
- 1221

**Analyte:** Bromobenzene

**Sample:** 1221

**Technology:** GC-MS

**Prep Method:**
- Target: 9.29 ug/L
- Limits: 5.57 to 13 ug/L
- Basis: Fixed Percent (2)

**Robust Mean:** 9.1 ug/L
- Std Dev: 1.7842 ug/L
- Median: 9.225 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 30
- Fail: 0
- Total: 30

**Totals for Matrix/Analyte:**
- Labs: Pass: 31
- Fail: 0
- Total: 31

Score Date: 05/18/2018

Proficiency Test Statistics
**Potable Water Bromobenzene**

Shipmen: 412  Matrix: Potable Water  
**Technology:** GCELCD/PID  
**Prep Method:**  
- **Target:** 9.29 ug/L  
- **Limits:** 5.57 to 13 ug/L  
- **Basis:** Fixed Percent (2)  
- **Robust Mean:** 8.6 ug/L  
- **Std Dev:** 0 ug/L  
- **Median:** 8.6 ug/L  

**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 1  Fail: 0  Total: 1  

---

**Potable Water Bromochloroacetic acid**

Shipmen: 412  Matrix: Potable Water  
**Technology:** GC-ECD  
**Prep Method:**  
- **Target:** 26.6 ug/L  
- **Limits:** 16 to 37.2 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 25.2 ug/L  
- **Std Dev:** 1.5309 ug/L  
- **Median:** 24.6 ug/L  

**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 11  Fail: 0  Total: 11  

---

**Potable Water Bromochloromethane**

Shipmen: 412  Matrix: Potable Water  
**Technology:** GC-MS  
**Prep Method:**  
- **Target:** 3.47 ug/L  
- **Limits:** 2.08 to 4.86 ug/L  
- **Basis:** Fixed Percent (2)  
- **Robust Mean:** 3.6 ug/L  
- **Std Dev:** 0.2661 ug/L  
- **Median:** 3.6 ug/L  

**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 30  Fail: 0  Total: 30  

---

**Potable Water Bromochloromethane**

Shipmen: 412  Matrix: Potable Water  
**Technology:** GCELCD/PID  
**Prep Method:**  
- **Target:** 3.47 ug/L  
- **Limits:** 2.08 to 4.86 ug/L  
- **Basis:** Fixed Percent (2)  
- **Robust Mean:** 3.6 ug/L  
- **Std Dev:** 0 ug/L  
- **Median:** 3.56 ug/L  

**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 1  Fail: 0  Total: 1  

---

**Potable Water Beryllium, Total**

Score Date: 05/18/2018  
Proficiency Test Statistics
Potable Water Beryllium, Total

Shipments: 412  Matrix: Potable Water
Analyte: Beryllium, Total
Sample: 1206
Technology: GFAAS
Prep Method:
Target: 5 ug/L
Limits: 4.25 to 5.75 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 4.5 ug/L
Std Dev: 0.5091 ug/L
Median: 4.45 ug/L

Totals for Matrix/Analyte/Technology:

Labs: Pass: 1  Fail: 1  Total: 2

A histogram is not displayed for Technology: GFAAS due to the limited number of participants.

Potable Water Beryllium, Total

Shipments: 412  Matrix: Potable Water
Analyte: Beryllium, Total
Sample: 1206
Technology: ICP-AES
Prep Method:
Target: 5 ug/L
Limits: 4.25 to 5.75 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 5.1 ug/L
Std Dev: 1.6374 ug/L
Median: 5.02 ug/L

Totals for Matrix/Analyte/Technology:

Labs: Pass: 14  Fail: 5  Total: 19

Potable Water Beryllium, Total

Shipments: 412  Matrix: Potable Water
Analyte: Beryllium, Total
Sample: 1206
Technology: ICP-MS
Prep Method:
Target: 5 ug/L
Limits: 4.25 to 5.75 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 4.9 ug/L
Std Dev: 0.2993 ug/L
Median: 4.925 ug/L

Totals for Matrix/Analyte/Technology:

Labs: Pass: 28  Fail: 2  Total: 30

Potable Water Benzene

Shipments: 412  Matrix: Potable Water
Analyte: Benzene
Sample: 1221
Technology: GC-MS
Prep Method:
Target: 11.3 ug/L
Limits: 9.04 to 13.6 ug/L
Basis: Fixed Percent (2)
Robust Mean: 11.3 ug/L
Std Dev: 2.2941 ug/L
Median: 11.3 ug/L

Totals for Matrix/Analyte/Technology:

Labs: Pass: 27  Fail: 2  Total: 29
Potable Water Benzene

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Bromide

Potable Water Boron, Total

Potable Water Bromodichloromethane

Score Date: 05/18/2018
Proficiency Test Statistics  Page 21 of 76
### Potable Water Bromodichloromethane

**Sample:** 1213  
**Matrix:** Potable Water  
**Analyte:** Bromodichloromethane  
**Technology:** GCELCD/PID  
**Prep Method:**  
- **Target:** 11.6 ug/L  
- **Limits:** 9.28 to 13.9 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 11.2 ug/L  
- **Std Dev:** 0.2828 ug/L  
- **Median:** 11.2 ug/L  

**Test Results (End Groups Include Outliers):**  
- **Number of Labs:** 34  
- **Total:** 34  

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

### Potable Water Bromoform

**Sample:** 1213  
**Matrix:** Potable Water  
**Analyte:** Bromoform  
**Technology:** GC-MS  
**Prep Method:**  
- **Target:** 39.4 ug/L  
- **Limits:** 31.5 to 47.3 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 39 ug/L  
- **Std Dev:** 3.2806 ug/L  
- **Median:** 38.95 ug/L  

**Test Results (End Groups Include Outliers):**  
- **Number of Labs:** 33  
- **Total:** 34  

### Potable Water Bromoform

**Sample:** 1213  
**Matrix:** Potable Water  
**Analyte:** Bromoform  
**Technology:** GCELCD/PID  
**Prep Method:**  
- **Target:** 39.4 ug/L  
- **Limits:** 31.5 to 47.3 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 36.2 ug/L  
- **Std Dev:** 2.8284 ug/L  
- **Median:** 36.2 ug/L  

**Test Results (End Groups Include Outliers):**  
- **Number of Labs:** 32  
- **Total:** 32  

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

### Potable Water Bromate

**Sample:** 1229  
**Matrix:** Potable Water  
**Analyte:** Bromate  
**Technology:** IC-COND  
**Prep Method:**  
- **Target:** 17.8 ug/L  
- **Limits:** 12.5 to 23.1 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 16.9 ug/L  
- **Std Dev:** 1.6917 ug/L  
- **Median:** 17.6 ug/L  

**Test Results (End Groups Include Outliers):**  
- **Number of Labs:** 5  
- **Total:** 5  

### Potable Water Butachlor

**Score Date:** 05/18/2018  
**Proficiency Test Statistics**
**Potable Water Butachlor**

Shipment: 412  
Matrix: Potable Water  
Analyte: Butachlor  
Sample: 1207B  
Technology: GC-MS

Prep Method:
- Target: 16.2 ug/L  
- Limits: 8.91 to 23.5 ug/L  
- Basis: Target Value +/- a fixed percent  
- Robust Mean: 16.4 ug/L  
  - Std Dev: 1.6821 ug/L  
  - Median: 16.5 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 13  
- Fail: 0  
- Total: 13

**Test Results (End Groups Include Outliers)**

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<thead>
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<td>3</td>
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**Potable Water Calcium, Total**

Shipment: 412  
Matrix: Potable Water  
Analyte: Calcium, Total  
Sample: 1232  
Technology: FAAS

Prep Method:
- Target: 72.5 mg/L  
- Limits: 61.6 to 83.4 mg/L  
- Basis: Target Value +/- a fixed percent  
- Robust Mean: 69.3 mg/L  
  - Std Dev: 3.8071 mg/L  
  - Median: 70.19 mg/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 3  
- Fail: 0  
- Total: 3

**Test Results (End Groups Include Outliers)**

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<td>3</td>
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</table>

**Potable Water Calcium, Total**

A histogram is not displayed for Technology: IC due to the limited number of participants.

Shipment: 412  
Matrix: Potable Water  
Analyte: Calcium, Total  
Sample: 1232  
Technology: IC

Prep Method:
- Target: 72.5 mg/L  
- Limits: 61.6 to 83.4 mg/L  
- Basis: Target Value +/- a fixed percent  
- Robust Mean: 71.2 mg/L  
  - Std Dev: 0 mg/L  
  - Median: 71.2 mg/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 1  
- Fail: 0  
- Total: 1

**Test Results (End Groups Include Outliers)**

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<th>Number of Labs</th>
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<td>72.5</td>
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<tr>
<td>3</td>
<td>72.5</td>
</tr>
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</table>

**Potable Water Calcium, Total**

Shipment: 412  
Matrix: Potable Water  
Analyte: Calcium, Total  
Sample: 1232  
Technology: ICP-AES

Prep Method:
- Target: 72.5 mg/L  
- Limits: 61.6 to 83.4 mg/L  
- Basis: Target Value +/- a fixed percent  
- Robust Mean: 72.4 mg/L  
  - Std Dev: 2.6933 mg/L  
  - Median: 72.1 mg/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 29  
- Fail: 0  
- Total: 29

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
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<tbody>
<tr>
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</tbody>
</table>
Potable Water Calcium, Total

Technology: ICP-MS
Prep Method:
Target: 72.5 mg/L
Limits: 61.6 to 83.4 mg/L
Basis: Target Value +/- a fixed percent
Robust Mean: 72.8 mg/L
Std Dev: 0 mg/L
Median: 72.8 mg/L

A histogram is not displayed for Technology: ICP-MS due to the limited number of participants.

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1 Fail: 0 Total: 1

Totals for Matrix/Analyte:
Labs: Pass: 37 Fail: 0 Total: 37

Potable Water Calcium, Total

Shipment: 412 Matrix: Potable Water
Analyte: Calcium, Total
Sample: 1232
Technology: TITR
Prep Method:
Target: 72.5 mg/L
Limits: 61.6 to 83.4 mg/L
Basis: Target Value +/- a fixed percent
Robust Mean: 74.7 mg/L
Std Dev: 1.7098 mg/L
Median: 75.5 mg/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 3 Fail: 0 Total: 3

Totals for Matrix/Analyte:
Labs: Pass: 9 Fail: 0 Total: 9

Potable Water Carbofuran

Shipment: 412 Matrix: Potable Water
Analyte: Carbofuran
Sample: 1215
Technology: HPLC-FLUOR
Prep Method:
Target: 140 ug/L
Limits: 77 to 203 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 134.3 ug/L
Std Dev: 10.7444 ug/L
Median: 134 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 9 Fail: 0 Total: 9

Potable Water Carbaryl

Shipment: 412 Matrix: Potable Water
Analyte: Carbaryl
Sample: 1215
Technology: HPLC-FLUOR
Prep Method:
Target: 53.3 ug/L
Limits: 40 to 66.6 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 50.7 ug/L
Std Dev: 17.284 ug/L
Median: 51.5 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 9 Fail: 0 Total: 9

Potable Water Carbon tetrachloride

Score Date: 05/18/2018
Potable Water Carbon tetrachloride

Number of Labs
13.5 14 14.6 15.1 15.6 16.2 17.3

Test Results (End Groups Include Outliers)

Robust Mean: 15.2 ug/L
Std Dev: 3.0117 ug/L
Median: 14.9 ug/L

Fail: 1
Labs: 29
Total: 30

Totals for Matrix/Analyte/Technology:
Labs: Pass: 28 Fail: 1 Total: 29

Potable Water Carbon tetrachloride

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Cadmium, Total

Number of Labs
20.1 21.8

Test Results (End Groups Include Outliers)

Robust Mean: 22.9 ug/L
Std Dev: 1.3068 ug/L
Median: 22.95 ug/L

Fail: 0
Labs: 53
Total: 53

Totals for Matrix/Analyte/Technology:
Labs: Pass: 20 Fail: 0 Total: 20

Potable Water Cadmium, Total

Score Date: 05/18/2018
Potable Water Cadmium, Total

- **Prep Method:** ICP-MS
- **Target:** 22.5 ug/L
- **Limits:** 18 to 27 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 22.3 ug/L
  - **Std Dev:** 4.1486 ug/L
  - **Median:** 22.4 ug/L

### Test Results (End Groups Include Outliers)

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</table>

**Totals:**
- **Labs:** 20.7
- **Pass:** 20.7
- **Total:** 20.7

---

Potable Water Bromomethane

- **Prep Method:** GC-MS
- **Target:** 37.8 ug/L
- **Limits:** 22.7 to 52.9 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 36 ug/L
  - **Std Dev:** 5.9596 ug/L
  - **Median:** 36.2 ug/L

### Test Results (End Groups Include Outliers)

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<th>Lab</th>
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**Totals:**
- **Labs:** 31
- **Pass:** 31
- **Total:** 31

---

Potable Water Chloromethane

- **Prep Method:** GC-MS
- **Target:** 23.6 ug/L
- **Limits:** 14.2 to 33 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 24.7 ug/L
  - **Std Dev:** 3.3384 ug/L
  - **Median:** 24.5 ug/L

### Test Results (End Groups Include Outliers)

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**Totals:**
- **Labs:** 31
- **Pass:** 31
- **Total:** 31

---

A histogram is not displayed for **Technology: GCELCD/PID** due to the limited number of participants.
Potable Water Chloromethane

**Shipments: 412**  
**Matrix:** Potable Water  
**Analyte:** Chloromethane  
**Sample:** 1220  
**Technology:** GCELCD/PID  
**Prep Method:**  
**Target:** 23.6 ug/L  
**Limits:** 14.2 to 33 ug/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 22.5 ug/L  
**Median:** 22.5 ug/L  

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 1  
Fail: 0  
**Total:** 1

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

---

**Potable Water Calcium Hardness**

**Shipments: 412**  
**Matrix:** Potable Water  
**Analyte:** Calcium Hardness  
**Sample:** 1203  
**Technology:** AUTO  
**Prep Method:**  
**Target:** 118 mg/L  
**Limits:** 100 to 136 mg/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 121 mg/L  
**Median:** 121 mg/L  

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 1  
Fail: 0  
**Total:** 1

A histogram is not displayed for Technology: AUTO due to the limited number of participants.

---

**Potable Water Calcium Hardness**

**Shipments: 412**  
**Matrix:** Potable Water  
**Analyte:** Calcium Hardness  
**Sample:** 1203  
**Technology:** CALC  
**Prep Method:**  
**Target:** 118 mg/L  
**Limits:** 100 to 136 mg/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 115.3 mg/L  
**Median:** 117 mg/L  

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 5  
Fail: 0  
**Total:** 5

---

**Potable Water Calcium Hardness**

**Shipments: 412**  
**Matrix:** Potable Water  
**Analyte:** Calcium Hardness  
**Sample:** 1203  
**Technology:** FAAS  
**Prep Method:**  
**Target:** 118 mg/L  
**Limits:** 100 to 136 mg/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 125 mg/L  
**Median:** 125 mg/L  

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 1  
Fail: 0  
**Total:** 1

---

**Potable Water Calcium Hardness**

**Shipments: 412**  
**Matrix:** Potable Water  
**Analyte:** Calcium Hardness  
**Sample:** 1203  
**Technology:** FAAS  
**Prep Method:**  
**Target:** 118 mg/L  
**Limits:** 100 to 136 mg/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 125 mg/L  
**Median:** 125 mg/L  

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 1  
Fail: 0  
**Total:** 1

---

Score Date: 05/18/2018  
Proficiency Test Statistics  
Page 27 of 76
**Potable Water Calcium Hardness**

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Calcium Hardness  
**Sample:** 1203  
**Technology:** ICP-AES  
**Prep Method:**  
- **Target:** 118 mg/L  
- **Limits:** 100 to 136 mg/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 118.4 mg/L  
  - **Std Dev:** 4.7414 mg/L  
  - **Median:** 119.5 mg/L  

**Totals for Matrix/Analyte/Technology:**  
- **Labs:** 24  
- **Pass:** 48  
- **Fail:** 0  
- **Total:** 48  

**Potable Water Calcium Hardness**

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Calcium Hardness  
**Sample:** 1203  
**Technology:** TITR  
**Prep Method:**  
- **Target:** 118 mg/L  
- **Limits:** 100 to 136 mg/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 116 mg/L  
  - **Std Dev:** 2.5667 mg/L  
  - **Median:** 116.4 mg/L  

**Totals for Matrix/Analyte/Technology:**  
- **Labs:** 17  
- **Pass:** 57  
- **Fail:** 0  
- **Total:** 57  

**Potable Water Chloride**

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Chloride  
**Sample:** 1202  
**Technology:** AUTO  
**Prep Method:**  
- **Target:** 41.4 mg/L  
- **Limits:** 35.2 to 47.6 mg/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 40.4 mg/L  
  - **Std Dev:** 0 mg/L  
  - **Median:** 40.4 mg/L  

**Totals for Matrix/Analyte/Technology:**  
- **Labs:** 1  
- **Pass:** 57  
- **Fail:** 0  
- **Total:** 57  

A histogram is not displayed for Technology: AUTO due to the limited number of participants.

**Potable Water Chloride**

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Chloride  
**Sample:** 1202  
**Technology:** COLOR  
**Prep Method:**  
- **Target:** 41.4 mg/L  
- **Limits:** 35.2 to 47.6 mg/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 42 mg/L  
  - **Std Dev:** 1.6597 mg/L  
  - **Median:** 42.05 mg/L  

**Totals for Matrix/Analyte/Technology:**  
- **Labs:** 6  
- **Pass:** 57  
- **Fail:** 0  
- **Total:** 57  

Score Date: 05/18/2018  
Proficiency Test Statistics  
Page 28 of 76
Potable Water Chloride

**Test Results (End Groups Include Outliers)**

**Number of Labs**

<table>
<thead>
<tr>
<th>38.3</th>
<th>39.1</th>
<th>39.8</th>
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<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

**Potable Water Matrix:**

412

**Fail:**
- Labs: 0
- Total: 0

**Pass:**
- Labs: 57
- Total: 57

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs: Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>0</td>
<td>33</td>
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</table>

**Robust Mean:**

41.4 mg/L

**Std Dev:**

1.4921 mg/L

**Median:**

41.2 mg/L

**Basis:**

Target Value +/- a fixed percent

**Analyte:**

Chloride

**Sample:**

412

**Technology:**

IC-COND

**Prep Method:**

Target: 41.4 mg/L

Limits: 35.2 to 47.6 mg/L

**Potable Water Chloride**

**Test Results (End Groups Include Outliers)**

**Number of Labs**

<table>
<thead>
<tr>
<th>38.3</th>
<th>39.1</th>
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<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

**Potable Water Matrix:**

412

**Fail:**
- Labs: 0
- Total: 0

**Pass:**
- Labs: 57
- Total: 57

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs: Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
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<td>33</td>
</tr>
</tbody>
</table>

**Robust Mean:**

41.4 mg/L

**Std Dev:**

1.958 mg/L

**Median:**

41.6 mg/L

**Basis:**

Target Value +/- a fixed percent

**Analyte:**

Chloride

**Sample:**

412

**Technology:**

TITR

**Prep Method:**

Target: 41.4 mg/L

Limits: 35.2 to 47.6 mg/L

**Potable Water Chlordane Total**

**Test Results (End Groups Include Outliers)**

**Number of Labs**

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<tr>
<th>6.2</th>
<th>6.8</th>
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<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

**Potable Water Matrix:**

414

**Fail:**
- Labs: 0
- Total: 0

**Pass:**
- Labs: 16
- Total: 16

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs: Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>0</td>
<td>13</td>
</tr>
</tbody>
</table>

**Robust Mean:**

7.5 ug/L

**Std Dev:**

1.4984 ug/L

**Median:**

7.63 ug/L

**Basis:**

Target Value +/- a fixed percent

**Analyte:**

Chlordane Total

**Sample:**

1214

**Technology:**

GC-ECD

**Prep Method:**

Target: 9.09 ug/L

Limits: 5 to 13.2 ug/L

**Potable Water Chlordane Total**

**Test Results (End Groups Include Outliers)**

**Number of Labs**

<table>
<thead>
<tr>
<th>5.7</th>
<th>6.8</th>
<th>7.8</th>
<th>8.9</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>0.5</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

**Potable Water Matrix:**

414

**Fail:**
- Labs: 0
- Total: 0

**Pass:**
- Labs: 16
- Total: 16

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs: Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

**Robust Mean:**

7.5 ug/L

**Std Dev:**

1.4984 ug/L

**Median:**

7.63 ug/L

**Basis:**

Target Value +/- a fixed percent

**Analyte:**

Chlordane Total

**Sample:**

1214

**Technology:**

GC-MS

**Prep Method:**

Target: 9.09 ug/L

Limits: 5 to 13.2 ug/L

**Potable Water Trichlorofluoromethane**

**Test Results (End Groups Include Outliers)**

**Number of Labs**

<table>
<thead>
<tr>
<th>5.7</th>
<th>6.8</th>
<th>7.8</th>
<th>8.9</th>
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<tbody>
<tr>
<td>0</td>
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<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

**Potable Water Matrix:**

414

**Fail:**
- Labs: 0
- Total: 0

**Pass:**
- Labs: 16
- Total: 16

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
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<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
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<td>3</td>
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</tbody>
</table>

**Robust Mean:**

7.5 ug/L

**Std Dev:**

1.4984 ug/L

**Median:**

7.63 ug/L

**Basis:**

Target Value +/- a fixed percent
Potable Water Trichlorofluoromethane

Shipment: 412  
Matrix: Potable Water  
Analyte: Trichlorofluoromethane  
Sample: 1220

Technology: GC-MS  
Prep Method:  
Target: 37.2 ug/L  
Limits: 22.3 to 52.1 ug/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 38.5 ug/L  
Std Dev: 4.5767 ug/L  
Median: 37.95 ug/L

Total for Matrix/Analyte/Technology:  
Labs: Pass: 31  Fail: 0  Total: 31

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Chlorobenzene

Shipment: 412  
Matrix: Potable Water  
Analyte: Chlorobenzene  
Sample: 1221

Technology: GC-MS  
Prep Method:  
Target: 15.3 ug/L  
Limits: 12.2 to 18.4 ug/L  
Basis: Fixed Percent (2)  
Robust Mean: 15.3 ug/L  
Std Dev: 1.1543 ug/L  
Median: 15.3 ug/L

Total for Matrix/Analyte/Technology:  
Labs: Pass: 30  Fail: 0  Total: 30

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.
Potable Water Dibromochloromethane

**Test Results (End Groups Include Outliers)**

**Number of Labs**

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<thead>
<tr>
<th>Number</th>
<th>Count</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Shipment</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>412</td>
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</tr>
</tbody>
</table>

**Analyte:** Dibromochloromethane

**Sample:** 1213

**Technology:** GC-MS

**Prep Method:**

- **Target:** 44.4 ug/L
- **Limits:** 35.5 to 53.3 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 43.1 ug/L
  - Std Dev: 3.4843 ug/L
  - Median: 43.1 ug/L

**Totals for Matrix/Analyte/Technology:**

- **Labs:** Pass: 33, Fail: 1, Total: 34

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Dibromochloromethane

**Test Results (End Groups Include Outliers)**

**Number of Labs**

<table>
<thead>
<tr>
<th>Number</th>
<th>Count</th>
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<tbody>
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<table>
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<th>Matrix: Potable Water</th>
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<tbody>
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</table>

**Analyte:** Dibromochloromethane

**Sample:** 1220

**Technology:** GCELCD/PID

**Prep Method:**

- **Target:** 44.4 ug/L
- **Limits:** 35.5 to 53.3 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 40.4 ug/L
  - Std Dev: 1.2728 ug/L
  - Median: 40.4 ug/L

**Totals for Matrix/Analyte/Technology:**

- **Labs:** Pass: 29, Fail: 0, Total: 29

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Chloroethane

**Test Results (End Groups Include Outliers)**

**Number of Labs**

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<th>Count</th>
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<table>
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<th>Matrix: Potable Water</th>
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</thead>
<tbody>
<tr>
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**Analyte:** Chloroethane

**Sample:** 1220

**Technology:** GC-MS

**Prep Method:**

- **Target:** 39.8 ug/L
- **Limits:** 23.9 to 55.7 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 40 ug/L
  - Std Dev: 4.3603 ug/L
  - Median: 39.7 ug/L

**Totals for Matrix/Analyte/Technology:**

- **Labs:** Pass: 28, Fail: 0, Total: 28

Potable Water Chloroethane

<table>
<thead>
<tr>
<th>Number</th>
<th>Count</th>
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<tbody>
<tr>
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<td>35.4</td>
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<td>37.4</td>
<td>4</td>
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<td>39.5</td>
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<td>41.6</td>
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<td>42.6</td>
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<td>45.7</td>
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<table>
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<th>Matrix: Potable Water</th>
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<tbody>
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**Analyte:** Chloroethane

**Sample:** 1220

**Technology:** GCELCD/PID

**Prep Method:**

- **Target:** 39.8 ug/L
- **Limits:** 23.9 to 55.7 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 35.4 ug/L
  - Std Dev: 0 ug/L
  - Median: 35.4 ug/L

**Totals for Matrix/Analyte/Technology:**

- **Labs:** Pass: 1, Fail: 0, Total: 1

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.
Potable Water Chlorite

Shipments: 412  
Matrix: Potable Water

Analyte: Chlorite
Sample: 1230

Technology: AMP
Prep Method:
Target: 713 ug/L
Limits: 499 to 927 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 723 ug/L
Std Dev: 0 ug/L
Median: 723 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 6  Fail: 0  Total: 6

A histogram is not displayed for Technology: AMP due to the limited number of participants.

Potable Water Chlorite

Shipments: 412  
Matrix: Potable Water

Analyte: Chlorite
Sample: 1230

Technology: IC-COND
Prep Method:
Target: 713 ug/L
Limits: 499 to 927 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 687.6 ug/L
Std Dev: 20.1227 ug/L
Median: 686 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 5  Fail: 0  Total: 5

Potable Water Chlorate

Shipments: 412  
Matrix: Potable Water

Analyte: Chlorate
Sample: 1230

Technology: IC-COND
Prep Method:
Target: 158 ug/L
Limits: 111 to 205 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 156.1 ug/L
Std Dev: 1.7728 ug/L
Median: 156 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 7  Fail: 0  Total: 7

Potable Water Chloroform

Shipments: 412  
Matrix: Potable Water

Analyte: Chloroform
Sample: 1213

Technology: GC-MS
Prep Method:
Target: 15.2 ug/L
Limits: 12.2 to 18.2 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 15.3 ug/L
Std Dev: 1.2442 ug/L
Median: 15.15 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 32  Fail: 0  Total: 32

Score Date: 05/18/2018  
Proficiency Test Statistics  
Page 32 of 76
**Potable Water Chloroform**

**Matrix:** Potable Water  
**Sample:** 1213  
**Technology:** GCELCD/PID  
**Prep Method:**
- **Target:** 15.2 ug/L  
- **Limits:** 12.2 to 18.2 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 13.8 ug/L  
- **Std Dev:** 1.6971 ug/L  
- **Median:** 13.8 ug/L

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 2  
- Fail: 0  
- Total: 2

**Totals for Matrix/Analyte:**
- Labs: Pass: 34  
- Fail: 0  
- Total: 34

**Potable Water Cyanide**

**Matrix:** Potable Water  
**Sample:** 1205  
**Technology:** AMP  
**Prep Method:**
- **Target:** 0.325 mg/L  
- **Limits:** 0.244 to 0.406 mg/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 0.3 mg/L  
- **Std Dev:** 0 mg/L  
- **Median:** 0.31 mg/L

A histogram is not displayed for Technology: AMP due to the limited number of participants.

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 1  
- Fail: 0  
- Total: 1

**Totals for Matrix/Analyte:**
- Labs: Pass: 22  
- Fail: 2  
- Total: 24

**Potable Water Cyanide**

**Matrix:** Potable Water  
**Sample:** 1205  
**Technology:** COLOR  
**Prep Method:**
- **Target:** 0.325 mg/L  
- **Limits:** 0.244 to 0.406 mg/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 0.3 mg/L  
- **Std Dev:** 0.0289 mg/L  
- **Median:** 0.31 mg/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 12  
- Fail: 0  
- Total: 12

**Totals for Matrix/Analyte:**
- Labs: Pass: 22  
- Fail: 2  
- Total: 24

**Score Date:** 05/18/2018  
Proficiency Test Statistics  
Page 33 of 76
Potable Water Cyanide

**Analyte:** Cyanide
**Sample:** 1205
**Technology:** POT
**Prep Method:**
- **Target:** 0.325 mg/L
- **Limits:** 0.244 to 0.406 mg/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 0.3 mg/L
  - **Std Dev:** 0 mg/L
  - **Median:** 0.28 mg/L

**Totals for Matrix/Analyte/Technology:**
- **Labs:** Pass: 22, Fail: 2, Total: 24

**A histogram is not displayed for Technology: POT due to the limited number of participants.**

Potable Water Corrosivity

**Analyte:** Corrosivity
**Sample:** 1238
**Technology:** CALC
**Prep Method:**
- **Target:** 0.8 Saturation Index
- **Limits:** 0.4 to 1.2 Saturation Index
- **Basis:** PW Corrosivity
- **Robust Mean:** 0.8 Saturation Index
  - **Std Dev:** 0.1039 Saturation Index
  - **Median:** 0.83 Saturation Index

**Totals for Matrix/Analyte/Technology:**
- **Labs:** Pass: 15, Fail: 0, Total: 15

Potable Water Chromium, Total

**Analyte:** Chromium, Total
**Sample:** 1206
**Technology:** GFAAS
**Prep Method:**
- **Target:** 115 ug/L
- **Limits:** 97.8 to 132 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 112.5 ug/L
  - **Std Dev:** 9.1924 ug/L
  - **Median:** 112.5 ug/L

**Totals for Matrix/Analyte/Technology:**
- **Labs:** Pass: 2, Fail: 0, Total: 2

**A histogram is not displayed for Technology: GFAAS due to the limited number of participants.**

Potable Water Chromium, Total

**Analyte:** Chromium, Total
**Sample:** 1206
**Technology:** ICP-AES
**Prep Method:**
- **Target:** 115 ug/L
- **Limits:** 97.8 to 132 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 116.5 ug/L
  - **Std Dev:** 4.1878 ug/L
  - **Median:** 117.5 ug/L

**Totals for Matrix/Analyte/Technology:**
- **Labs:** Pass: 22, Fail: 0, Total: 22

**Totals for Matrix/Analyte:**
- **Labs:** Pass: 53, Fail: 1, Total: 54

**Score Date:** 05/18/2018
Potable Water Chromium, Total

- Shipment: 412  
- Matrix: Potable Water  
- Analyte: Chromium, Total  
- Sample: 1206  
- Technology: ICP-MS  
- Prep Method:  
  - Target: 115 ug/L  
  - Limits: 97.8 to 132 ug/L  
  - Basis: Target Value +/- a fixed percent  
  - Robust Mean: 112.1 ug/L  
    - Std Dev: 21.2662 ug/L  
    - Median: 113 ug/L  
- Totals for Matrix/Analyte/Technology:  
  - Labs: Pass: 53  
  - Fail: 1  
  - Total: 54

Potable Water Copper, Total

- Shipment: 412  
- Matrix: Potable Water  
- Analyte: Copper, Total  
- Sample: 1206  
- Technology: FAAS  
- Prep Method:  
  - Target: 275 ug/L  
  - Limits: 248 to 303 ug/L  
  - Basis: Target Value +/- a fixed percent  
  - Robust Mean: 267.6 ug/L  
    - Std Dev: 10.3138 ug/L  
    - Median: 264 ug/L  
- Totals for Matrix/Analyte/Technology:  
  - Labs: Pass: 64  
  - Fail: 2  
  - Total: 66

A histogram is not displayed for Technology: GFAAS due to the limited number of participants.

Potable Water Copper, Total

- Shipment: 412  
- Matrix: Potable Water  
- Analyte: Copper, Total  
- Sample: 1206  
- Technology: GFAAS  
- Prep Method:  
  - Target: 275 ug/L  
  - Limits: 248 to 303 ug/L  
  - Basis: Target Value +/- a fixed percent  
  - Robust Mean: 283.5 ug/L  
    - Std Dev: 2.192 ug/L  
    - Median: 283.45 ug/L  
- Totals for Matrix/Analyte/Technology:  
  - Labs: Pass: 64  
  - Fail: 2  
  - Total: 66

Potable Water Copper, Total

- Shipment: 412  
- Matrix: Potable Water  
- Analyte: Copper, Total  
- Sample: 1206  
- Technology: ICP-AES  
- Prep Method:  
  - Target: 275 ug/L  
  - Limits: 248 to 303 ug/L  
  - Basis: Target Value +/- a fixed percent  
  - Robust Mean: 276.1 ug/L  
    - Std Dev: 10.9695 ug/L  
    - Median: 274.5 ug/L  
- Totals for Matrix/Analyte/Technology:  
  - Labs: Pass: 26  
  - Fail: 0  
  - Total: 26

Totals for Matrix/Analyte:  
- Labs: Pass: 64  
- Fail: 2  
- Total: 66

Score Date: 05/18/2018

Proficiency Test Statistics
Potable Water Copper, Total

Shipment: 412  Matrix: Potable Water
Analyte: Copper, Total
Sample: 1206
Technology: ICP-MS
Prep Method:
Target: 275 ug/L
Limits: 248 to 303 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 269.6 ug/L
Std Dev: 49.5597 ug/L
Median: 270 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 247  Fail: 2  Total: 249
Labs: Pass: 253  Fail: 2  Total: 255
Labs: Pass: 260  Fail: 2  Total: 262
Labs: Pass: 266  Fail: 2  Total: 268
Labs: Pass: 273  Fail: 2  Total: 275
Labs: Pass: 280  Fail: 2  Total: 282
Labs: Pass: 286  Fail: 2  Total: 288
Labs: Pass: 293  Fail: 2  Total: 295
Labs: Pass: 299  Fail: 2  Total: 301

Totals for Matrix/Analyte:
Labs: Pass: 66

Totals for Matrix/Analyte/Technology:
Labs: Pass: 64  Fail: 2  Total: 66

Potable Water Dalapon

Shipment: 412  Matrix: Potable Water
Analyte: Dalapon
Sample: 1217
Technology: GC-ECD
Prep Method:
Target: 33.8 ug/L
Limits: 16.9 to 50.7 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 30.2 ug/L
Std Dev: 10.0168 ug/L
Median: 31.9 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 10  Fail: 1  Total: 11

Potable Water Dibromoacetic acid

Shipment: 412  Matrix: Potable Water
Analyte: Dibromoacetic acid
Sample: 1226
Technology: GC-ECD
Prep Method:
Target: 33.1 ug/L
Limits: 19.9 to 46.3 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 31 ug/L
Std Dev: 2.8068 ug/L
Median: 31.1 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 16  Fail: 0  Total: 16

Potable Water Dibromomethane

Shipment: 412  Matrix: Potable Water
Analyte: Dibromomethane
Sample: 1226
Technology: IC-ESI-MS
Prep Method:
Target: 33.1 ug/L
Limits: 19.9 to 46.3 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 37.7 ug/L
Std Dev: 0 ug/L
Median: 37.7 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 1  Fail: 0  Total: 1

Totals for Matrix/Analyte:
Labs: Pass: 17  Fail: 0  Total: 17

A histogram is not displayed for Technology: IC-ESI-MS due to the limited number of participants.
**Potable Water Dibromomethane**

- **Shipments:** 412
  - **Matrix:** Potable Water
- **Analyte:** Dibromomethane
- **Sample:** 1220
- **Technology:** GC-MS
- **Prep Method:**
  - Target: 5.71 ug/L
  - Limits: 3.43 to 7.99 ug/L
  - Basis: Fixed Percent (2)
- **Robust Mean:** 5.6 ug/L
  - Std Dev: 0.3994 ug/L
  - Median: 5.505 ug/L
- **Totals for Matrix/Analyte/Technology:**
  - Labs: Pass: 30, Fail: 0, Total: 30
- **A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.**

---

**Potable Water Dichloroacetic acid**

- **Shipments:** 412
  - **Matrix:** Potable Water
- **Analyte:** Dichloroacetic acid
- **Sample:** 1226
- **Technology:** GC-ECD
- **Prep Method:**
  - Target: 14.5 ug/L
  - Limits: 8.7 to 20.3 ug/L
  - Basis: Target Value +/- a fixed percent
- **Robust Mean:** 14.4 ug/L
  - Std Dev: 1.7447 ug/L
  - Median: 14.41 ug/L
- **Totals for Matrix/Analyte/Technology:**
  - Labs: Pass: 16, Fail: 0, Total: 16
- **A histogram is not displayed for Technology: IC-ESI-MS due to the limited number of participants.**

---

**Potable Water Dichlorodifluoromethane**

- **Shipments:** 412
  - **Matrix:** Potable Water
- **Analyte:** Dichloroacetic acid
- **Sample:** 1226
- **Technology:** IC-ESI-MS
- **Prep Method:**
  - Target: 14.5 ug/L
  - Limits: 8.7 to 20.3 ug/L
  - Basis: Target Value +/- a fixed percent
- **Robust Mean:** 16.2 ug/L
  - Std Dev: 0 ug/L
  - Median: 16.2 ug/L
- **Totals for Matrix/Analyte/Technology:**
  - Labs: Pass: 1, Fail: 0, Total: 1
- **A histogram is not displayed for Technology: IC-ESI-MS due to the limited number of participants.**

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**Score Date:** 05/18/2018

Proficiency Test Statistics

Page 37 of 76
Potable Water Dichlorodifluoromethane

**Analyte:** Dichlorodifluoromethane
**Sample:** 1220
**Technology:** GC-MS

<table>
<thead>
<tr>
<th>Target</th>
<th>Limits</th>
<th>Basis</th>
<th>Robust Mean</th>
<th>Std Dev</th>
<th>Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 ug/L</td>
<td>24 to 56 ug/L</td>
<td>Target Value +/- a fixed percent</td>
<td>44 ug/L</td>
<td>7.9871 ug/L</td>
<td>43.4 ug/L</td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 26, Fail: 4, Total: 30

**A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.**

Potable Water Dicamba

**Analyte:** Dicamba
**Sample:** 1217
**Technology:** GC-ECD

<table>
<thead>
<tr>
<th>Target</th>
<th>Limits</th>
<th>Basis</th>
<th>Robust Mean</th>
<th>Std Dev</th>
<th>Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>58.6 ug/L</td>
<td>29.3 to 87.9 ug/L</td>
<td>Target Value +/- a fixed percent</td>
<td>52.1 ug/L</td>
<td>8.6567 ug/L</td>
<td>53.6 ug/L</td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 10, Fail: 0, Total: 10

**A histogram is not displayed for Technology: HPLC-UV due to the limited number of participants.**
Potable Water Dieldrin

**Test Results (End Groups Include Outliers)**

- **Number of Labs:** 0.9, 1.1, 1.2, 1.3, 1.4, 1.6

**Potable Water Matrix:**
- 412

**Fail:** 0

**Labs:** 17

**Pass:** 1

**Total:** 18

**Totals for Matrix/Analyte/Technology:**
- **Labs:** 11
- **Pass:** 11
- **Total:** 11

**Totals for Matrix/Analyte:**
- **Labs:** 17
- **Pass:** 17
- **Total:** 18

**Shipments:**
- Robust Mean: 1.2 ug/L
- Std Dev: 0.2229 ug/L
- Median: 1.17 ug/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Dieldrin
**Sample:** 1207A

**Technology:** GC-ECD

**Prep Method:**
- **Target:** 1.22 ug/L
- **Limits:** 0.671 to 1.77 ug/L

**A histogram is not displayed for Technology: HPLC-UV due to the limited number of participants.**

**Potable Water Dinoseb**

**Test Results (End Groups Include Outliers)**

- **Number of Labs:** 1.1, 1.2, 1.3, 1.4, 1.6

**Potable Water Matrix:**
- 412

**Fail:** 0

**Labs:** 11

**Pass:** 0

**Total:** 11

**Totals for Matrix/Analyte/Technology:**
- **Labs:** 6
- **Pass:** 10
- **Total:** 10

**Totals for Matrix/Analyte:**
- **Labs:** 17
- **Pass:** 11
- **Total:** 11

**Shipments:**
- Robust Mean: 19.7 ug/L
- Std Dev: 0 ug/L
- Median: 22.9 ug/L

**Basis:** Linear Regression

**Analyte:** Dinoseb
**Sample:** 1217

**Technology:** GC-ECD

**Prep Method:**
- **Target:** 21.7 ug/L
- **Limits:** 7.83 to 30.7 ug/L

**Technology:** HPLC-UV

**Prep Method:**
- **Target:** 21.7 ug/L
- **Limits:** 7.83 to 30.7 ug/L

**Basis:** Linear Regression

**Robust Mean:**
- **GC-ECD:** 19.7 ug/L
- **HPLC-UV:** 22.9 ug/L

**A histogram is not displayed for Technology: HPLC-UV due to the limited number of participants.**

**Potable Water Diquat**

**Test Results (End Groups Include Outliers)**

- **Number of Labs:**
- **Potable Water Matrix:**
- 412

**Fail:** 0

**Labs:** 1

**Pass:** 0

**Total:** 1

**Totals for Matrix/Analyte/Technology:**
- **Labs:** 1
- **Pass:** 1
- **Total:** 1

**Totals for Matrix/Analyte:**
- **Labs:** 11
- **Pass:** 11
- **Total:** 11

**Shipments:**
- Robust Mean: 22.9 ug/L
- Std Dev: 0 ug/L
- Median: 22.9 ug/L

**Basis:** Linear Regression

**Analyte:** Diquat
**Sample:** 1217

**Technology:** GC-ECD

**Prep Method:**
- **Target:** 21.7 ug/L
- **Limits:** 7.83 to 30.7 ug/L

**A histogram is not displayed for Technology: HPLC-UV due to the limited number of participants.**
Potable Water Diquat

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Diquat  
**Sample:** 1210  
**Technology:** HPLC-UV  
**Prep Method:**  
**Target:** 10.9 ug/L  
**Limits:** 5.45 to 16.4 ug/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 8.2 ug/L  
**Std Dev:** 2.2799 ug/L  
**Median:** 7.64 ug/L  
**Totals for Matrix/Analyte/Technology:**  
Labs: Pass: 5  Fail: 0  Total: 5

Potable Water Organic Carbon, Dissolved

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Organic Carbon, Dissolved  
**Sample:** 1233  
**Technology:** IR  
**Prep Method:**  
**Target:** 3.98 mg/L  
**Limits:** 3.51 to 4.43 mg/L  
**Basis:** Linear Regression  
**Robust Mean:** 4.2 mg/L  
**Std Dev:** 0.3742 mg/L  
**Median:** 4.14 mg/L  
**Totals for Matrix/Analyte/Technology:**  
Labs: Pass: 8  Fail: 3  Total: 11

Potable Water Endoall

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Endoall  
**Sample:** 1211  
**Technology:** GC-MS  
**Prep Method:**  
**Target:** 168 ug/L  
**Limits:** 84 to 252 ug/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 146 ug/L  
**Std Dev:** 19.2527 ug/L  
**Median:** 144 ug/L  
**Totals for Matrix/Analyte/Technology:**  
Labs: Pass: 4  Fail: 0  Total: 4

Potable Water Endrin

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Endrin  
**Sample:** 1207A  
**Technology:** GC-ECD  
**Prep Method:**  
**Target:** 0.556 ug/L  
**Limits:** 0.389 to 0.723 ug/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 0.5 ug/L  
**Std Dev:** 0.0771 ug/L  
**Median:** 0.5 ug/L  
**Totals for Matrix/Analyte/Technology:**  
Labs: Pass: 13  Fail: 0  Total: 13

**Totals for Matrix/Analyte:**  
Labs: Pass: 17  Fail: 1  Total: 18
Potable Water Endrin

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Analyte:** Endrin  
  **Sample:** 1207A  
  **Technology:** GC-MS  
  **Prep Method:**  
  **Target:** 0.556 ug/L  
  **Limits:** 0.389 to 0.723 ug/L  
  **Basis:** Target Value +/- a fixed percent  
  **Robust Mean:** 0.6 ug/L  
    - **Std Dev:** 0.273 ug/L  
    - **Median:** 0.61 ug/L  
  **Test Results (End Groups Include Outliers):**  
  - Number of Labs: 0.53, 0.57, 0.62, 0.71  
  **Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass 4, Fail 1, Total 5  

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Ethyl benzene

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Analyte:** Ethyl benzene  
  **Sample:** 1221  
  **Technology:** GC-MS  
  **Prep Method:**  
  **Target:** 2.88 ug/L  
  **Limits:** 1.73 to 4.03 ug/L  
  **Basis:** Fixed Percent (2)  
  **Robust Mean:** 3 ug/L  
    - **Std Dev:** 0.289 ug/L  
    - **Median:** 2.88 ug/L  
  **Test Results (End Groups Include Outliers):**  
  - Number of Labs: 2.3, 2.6, 2.8, 2.9, 3.1, 3.2, 3.4, 3.5  
  **Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass 29, Fail 0, Total 30  

Potable Water Ethyl benzene

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Analyte:** Ethyl benzene  
  **Sample:** 1221  
  **Technology:** GCELCD/PID  
  **Prep Method:**  
  **Target:** 2.88 ug/L  
  **Limits:** 1.73 to 4.03 ug/L  
  **Basis:** Fixed Percent (2)  
  **Robust Mean:** 2.6 ug/L  
    - **Std Dev:** 0.289 ug/L  
    - **Median:** 2.88 ug/L  
  **Test Results (End Groups Include Outliers):**  
  - Number of Labs: 2.3, 2.6, 2.8, 2.9, 3.1, 3.2, 3.4, 3.5  
  **Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass 1, Fail 0, Total 1  

Potable Water Iron, Total

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Analyte:** Iron, Total  
  **Sample:** 1206  
  **Technology:** FAAS  
  **Prep Method:**  
  **Target:** 1080 ug/L  
  **Limits:** 918 to 1240 ug/L  
  **Basis:** Fixed Percent (2)  
  **Robust Mean:** 1043.8 ug/L  
    - **Std Dev:** 428.8647 ug/L  
    - **Median:** 1020 ug/L  
  **Test Results (End Groups Include Outliers):**  
  - Number of Labs: 997, 1038, 1080, 1122  
  **Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass 5, Fail 1, Total 6  

Score Date: 05/18/2018  
Proficiency Test Statistics  
Page 41 of 76
Potable Water Iron, Total

A histogram is not displayed for Technology: GFAAS due to the limited number of participants.

Potable Water Iron, Total

A histogram is not displayed for Technology: ICP-MS due to the limited number of participants.

Potable Water Fluoride, Total

A histogram is not displayed for Technology: COLOR due to the limited number of participants.
### Potable Water Fluoride, Total

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Fluoride, Total  
**Sample:** 1202  
**Technology:** IC-COND  
**Prep Method:**  
- **Target:** 6.04 mg/L  
- **Limits:** 5.44 to 6.64 mg/L  
- **Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 6 mg/L  
  - **Std Dev:** 1.1627 mg/L  
  - **Median:** 5.97 mg/L  
**Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass: 50  
  - Fail: 5  
  - Total: 55  

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Fluoride, Total  
**Sample:** 1202  
**Technology:** POT  
**Prep Method:**  
- **Target:** 6.04 mg/L  
- **Limits:** 5.44 to 6.64 mg/L  
- **Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 6 mg/L  
  - **Std Dev:** 0.2462 mg/L  
  - **Median:** 6.03 mg/L  
**Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass: 23  
  - Fail: 0  
  - Total: 23  

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Glyphosate  
**Sample:** 1212  
**Technology:** HPLC-UV  
**Prep Method:**  
- **Target:** 583 ug/L  
- **Limits:** 466 to 700 ug/L  
- **Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 583.8 ug/L  
  - **Std Dev:** 76.7031 ug/L  
  - **Median:** 587 ug/L  
**Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass: 5  
  - Fail: 1  
  - Total: 6  

**Shipments:** 412  
**Matrix:** Potable Water  
**Analyte:** Hexachlorobenzene  
**Sample:** 1207A  
**Technology:** GC-ECD  
**Prep Method:**  
- **Target:** 1.91 ug/L  
- **Limits:** 0.947 to 2.4 ug/L  
- **Basis:** Linear Regression  
**Robust Mean:** 1.6 ug/L  
  - **Std Dev:** 0.286 ug/L  
  - **Median:** 1.67 ug/L  
**Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass: 7  
  - Fail: 0  
  - Total: 7  

**Score Date:** 05/18/2018  
**Proficiency Test Statistics**
Potable Water Hexachlorobenzene

Test Results (End Groups Include Outliers)

Number of Labs

<table>
<thead>
<tr>
<th>0.5</th>
<th>1.0</th>
<th>1.5</th>
<th>2.0</th>
<th>2.5</th>
<th>3.0</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Robust Mean: 1.7 ug/L
Std Dev: 0.2031 ug/L
Median: 1.765 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 10  Fail: 0  Total: 10

Fail: 0  Labs:  Pass: 17  Fail: 0  Total: 17

Potable Water Hexachlorobutadiene

Test Results (End Groups Include Outliers)

Number of Labs

<table>
<thead>
<tr>
<th>0.5</th>
<th>1.0</th>
<th>1.5</th>
<th>2.0</th>
<th>2.5</th>
<th>3.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Robust Mean: 38.3 ug/L
Std Dev: 3.7499 ug/L
Median: 38.05 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 29  Fail: 1  Total: 30

Fail: 0  Labs:  Pass: 30  Fail: 1  Total: 31

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Hexachlorocyclopentadiene

Test Results (End Groups Include Outliers)

Number of Labs

<table>
<thead>
<tr>
<th>0.5</th>
<th>1.0</th>
<th>1.5</th>
<th>2.0</th>
<th>2.5</th>
<th>3.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Robust Mean: 5.3 ug/L
Std Dev: 1.6283 ug/L
Median: 4.985 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 8  Fail: 0  Total: 8

Fail: 0  Labs:  Pass: 17  Fail: 1  Total: 18
Potable Water Hexachlorocyclopentadiene

Sample: 412  
Matrix: Potable Water  
Analyte: Hexachlorocyclopentadiene  
Technology: GC-MS  
Prep Method:
Target: 6.38 ug/L  
Limits: 1.84 to 9.2 ug/L  
Basis: Linear Regression  
Robust Mean: 5.8 ug/L  
Std Dev: 2.27 ug/L  
Median: 5.8 ug/L

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 2  Fail: 3  Total: 5

Totals for Matrix/Analyte:
Labs: Pass: 17  Fail: 1  Total: 18

Potable Water Heptachlor

Sample: 412  
Matrix: Potable Water  
Analyte: Heptachlor  
Technology: GC-ECD  
Prep Method:
Target: 0.584 ug/L  
Limits: 0.321 to 0.847 ug/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 0.5 ug/L  
Std Dev: 0.0681 ug/L  
Median: 0.46 ug/L

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 12  Fail: 0  Total: 12

Totals for Matrix/Analyte:
Labs: Pass: 16  Fail: 0  Total: 16

Potable Water Heptachlor epoxide

Sample: 412  
Matrix: Potable Water  
Analyte: Heptachlor epoxide  
Technology: GC-ECD  
Prep Method:
Target: 0.399 ug/L  
Limits: 0.219 to 0.579 ug/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 0.4 ug/L  
Std Dev: 0.0305 ug/L  
Median: 0.36 ug/L

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 12  Fail: 0  Total: 12

Totals for Matrix/Analyte:
Labs: Pass: 18  Fail: 0  Total: 18

Score Date: 05/18/2018  
Proficiency Test Statistics  
Page 45 of 76
**Potable Water Heptachlor epoxide**

- **Shipments**: 412
- **Matrix**: Potable Water
- **Analyte**: Heptachlor epoxide
- **Sample**: 1207A
- **Technology**: GC-MS
- **Prep Method**: Target: 0.399 ug/L
  - Limits: 0.219 to 0.579 ug/L
  - Basis: Target Value +/- a fixed percent
- **Robust Mean**: 0.4 ug/L
  - Std Dev: 0.0613 ug/L
  - Median: 0.45 ug/L

**Test Results (End Groups Include Outliers)**

- **Number of Labs**
  - 0.38
  - 0.43
  - 0.48
  - 0
  - 0.5
  - 1
  - 1.5
  - 2
  - 2.5
  - 3

- **Totals for Matrix/Analyte/Technology**
  - Labs: Pass: 18
  - Fail: 0
  - Total: 18

**Potable Water Mercury, Total**

- **Shipments**: 412
- **Matrix**: Potable Water
- **Analyte**: Mercury, Total
- **Sample**: 1206
- **Technology**: CVAAS
- **Prep Method**: Target: 5 ug/L
  - Limits: 3.5 to 6.5 ug/L
  - Basis: Target Value +/- a fixed percent
- **Robust Mean**: 5 ug/L
  - Std Dev: 1.0495 ug/L
  - Median: 4.94 ug/L

**Test Results (End Groups Include Outliers)**

- **Number of Labs**
  - 4.2
  - 4.4
  - 4.6
  - 4.7
  - 4.9
  - 5.1
  - 5.3

- **Totals for Matrix/Analyte/Technology**
  - Labs: Pass: 35
  - Fail: 2
  - Total: 37

**Potable Water Mercury, Total**

- **Shipments**: 412
- **Matrix**: Potable Water
- **Analyte**: Mercury, Total
- **Sample**: 1206
- **Technology**: ICP-MS
- **Prep Method**: Target: 5 ug/L
  - Limits: 3.5 to 6.5 ug/L
  - Basis: Target Value +/- a fixed percent
- **Robust Mean**: 4.8 ug/L
  - Std Dev: 1.4059 ug/L
  - Median: 4.73 ug/L

**Test Results (End Groups Include Outliers)**

- **Number of Labs**
  - 4.2
  - 4.4
  - 4.6
  - 4.7
  - 4.9
  - 5.1
  - 5.3

- **Totals for Matrix/Analyte/Technology**
  - Labs: Pass: 12
  - Fail: 1
  - Total: 13

**Potable Water Potassium, Total**

- **Shipments**: 412
- **Matrix**: Potable Water
- **Analyte**: Potassium, Total
- **Sample**: 1232
- **Technology**: IC
- **Prep Method**: Target: 31.9 mg/L
  - Limits: 27.1 to 36.7 mg/L
  - Basis: Target Value +/- a fixed percent
- **Robust Mean**: 33.8 mg/L
  - Std Dev: 0 mg/L
  - Median: 33.8 mg/L

**Test Results (End Groups Include Outliers)**

- **Number of Labs**
  - 4.2
  - 4.4
  - 4.6
  - 4.7
  - 4.9
  - 5.1
  - 5.3

- **Totals for Matrix/Analyte/Technology**
  - Labs: Pass: 1
  - Fail: 0
  - Total: 1

**Potable Water Potassium, Total**

A histogram is not displayed for Technology: IC due to the limited number of participants.

Score Date: 05/18/2018
Potable Water Potassium, Total

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
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<th>28.3</th>
<th>29.3</th>
<th>30.3</th>
<th>31.3</th>
<th>32.3</th>
<th>33.3</th>
<th>34.3</th>
<th>35.3</th>
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<tbody>
<tr>
<td>Pass:</td>
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<tr>
<td>Fail:</td>
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<tr>
<td>Total:</td>
<td>27.3</td>
<td>28.3</td>
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<td>30.3</td>
<td>31.3</td>
<td>32.3</td>
<td>33.3</td>
<td>34.3</td>
<td>35.3</td>
</tr>
</tbody>
</table>

**Basis:** Target Value +/- a fixed percent

**Robust Mean:** 31.2 mg/L

**Std Dev:** 1.983 mg/L

**Median:** 30.95 mg/L

**Totals for Matrix/Analyte/Technology:**

- **Labs:** Pass: 28, Fail: 0, Total: 28
- **Labs:** Pass: 30, Fail: 0, Total: 30

---

**Potable Water Lindane**

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>0.9</th>
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<th>1.1</th>
<th>1.2</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>Total:</td>
<td>0.9</td>
<td>1</td>
<td>1.1</td>
<td>1.2</td>
<td>1.3</td>
</tr>
</tbody>
</table>

**Basis:** Target Value +/- a fixed percent

**Robust Mean:** 1.1 ug/L

**Std Dev:** 0.1082 ug/L

**Median:** 1.145 ug/L

**Totals for Matrix/Analyte/Technology:**

- **Labs:** Pass: 12, Fail: 0, Total: 12
- **Labs:** Pass: 18, Fail: 0, Total: 18

---

**Potable Water Lindane**

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>0.9</th>
<th>1</th>
<th>1.1</th>
<th>1.2</th>
<th>1.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass:</td>
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<td>6</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>Fail:</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Total:</td>
<td>0.9</td>
<td>1</td>
<td>1.1</td>
<td>1.2</td>
<td>1.3</td>
</tr>
</tbody>
</table>

**Basis:** Target Value +/- a fixed percent

**Robust Mean:** 1.1 ug/L

**Std Dev:** 0.1601 ug/L

**Median:** 1.145 ug/L

**Totals for Matrix/Analyte/Technology:**

- **Labs:** Pass: 6, Fail: 0, Total: 6
- **Labs:** Pass: 18, Fail: 0, Total: 18

---

**Potable Water Monobromoacetic acid**

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>0.9</th>
<th>1</th>
<th>1.1</th>
<th>1.2</th>
<th>1.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass:</td>
<td>0</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fail:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total:</td>
<td>0.9</td>
<td>1</td>
<td>1.1</td>
<td>1.2</td>
<td>1.3</td>
</tr>
</tbody>
</table>

**Basis:** Target Value +/- a fixed percent

**Robust Mean:** 1.5 ug/L

**Std Dev:** 1.145 ug/L

**Median:** 1.145 ug/L

**Totals for Matrix/Analyte/Technology:**

- **Labs:** Pass: 2, Fail: 0, Total: 2
- **Labs:** Pass: 18, Fail: 0, Total: 18

---

**Score Date:** 05/18/2018

**Proficiency Test Statistics**
Potable Water Monobromoacetic acid

**Test Results (End Groups Include Outliers)**

- **Number of Labs:** 27
- **Target:** 34.6 ug/L
- **Limits:** 20.8 to 48.4 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 33.6 ug/L
- **Std Dev:** 4.2008 ug/L
- **Median:** 32.55 ug/L

Totals for Matrix/Analyte/Technology:
- Labs: Pass: 16
- Fail: 0
- Total: 16

A histogram is not displayed for Technology: IC-ESI-MS due to the limited number of participants.

Potable Water Monobromoacetic acid

- **Sample:** 1226
- **Technology:** GC-ECD
- **Prep Method:** Potable Water Monobromoacetic acid
- **Matrix:** 412

**Test Results (End Groups Include Outliers)**

- **Number of Labs:** 23.8, 25.3, 26.1, 26.9, 27.7, 28.5, 29.2, 30
- **Target:** 34.6 ug/L
- **Limits:** 20.8 to 48.4 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 33.6 ug/L
- **Std Dev:** 4.2008 ug/L
- **Median:** 32.55 ug/L

Totals for Matrix/Analyte/Technology:
- Labs: Pass: 16
- Fail: 0
- Total: 16

A histogram is not displayed for Technology: IC-ESI-MS due to the limited number of participants.

Potable Water Monochloroacetic acid

- **Sample:** 1226
- **Technology:** IC-ESI-MS
- **Prep Method:** Potable Water Monochloroacetic acid
- **Matrix:** 412

**Test Results (End Groups Include Outliers)**

- **Number of Labs:** 28.5 ug/L
- **Limits:** 17.1 to 39.9 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 26.8 ug/L
- **Std Dev:** 6.8775 ug/L
- **Median:** 27.1 ug/L

Totals for Matrix/Analyte/Technology:
- Labs: Pass: 16
- Fail: 0
- Total: 16

A histogram is not displayed for Technology: IC-ESI-MS due to the limited number of participants.

Potable Water Monochloroacetic acid

- **Sample:** 1226
- **Technology:** GC-ECD
- **Prep Method:** Potable Water Monochloroacetic acid
- **Matrix:** 412

**Test Results (End Groups Include Outliers)**

- **Number of Labs:** 28.5 ug/L
- **Limits:** 17.1 to 39.9 ug/L
- **Basis:** Target Value +/- a fixed percent
- **Robust Mean:** 26.8 ug/L
- **Std Dev:** 6.8775 ug/L
- **Median:** 27.1 ug/L

Totals for Matrix/Analyte/Technology:
- Labs: Pass: 16
- Fail: 0
- Total: 16

A histogram is not displayed for Technology: IC-ESI-MS due to the limited number of participants.

Potable Water Methylene chloride

Score Date: 05/18/2018
### Potable Water Methylene chloride

**Sample**: 1220  
**Technology**: GC-MS  
**Prep Method**:  
**Target**: 14.2 ug/L  
**Limits**: 11.4 to 17 ug/L  
**Basis**: Fixed Percent (2)  
**Robust Mean**: 13.9 ug/L  
**Std Dev**: 2.7724 ug/L  
**Median**: 14.1 ug/L  

#### Test Results (End Groups Include Outliers)

<table>
<thead>
<tr>
<th>Test Results (End Groups Include Outliers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Labs</td>
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<td>14</td>
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<tr>
<td>15</td>
</tr>
<tr>
<td>16</td>
</tr>
</tbody>
</table>

#### Totals for Matrix/Analyte/Technology:

- **Labs**: 28  
- **Pass**: 28  
- **Fail**: 0  
- **Total**: 28

#### Totals for Matrix/Analyte:

- **Labs**: 9  
- **Pass**: 9  
- **Fail**: 0  
- **Total**: 9

#### Totals for Technology:

- **Labs**: 1  
- **Pass**: 0  
- **Fail**: 1  
- **Total**: 1

---

### Potable Water Methomyl

**Sample**: 1215  
**Technology**: HPLC-FLUOR  
**Prep Method**:  
**Target**: 98.5 ug/L  
**Limits**: 78.8 to 118 ug/L  
**Basis**: Target Value +/- a fixed percent  
**Robust Mean**: 99.3 ug/L  
**Std Dev**: 6.4371 ug/L  
**Median**: 99.5 ug/L  

#### Test Results (End Groups Include Outliers)

<table>
<thead>
<tr>
<th>Test Results (End Groups Include Outliers)</th>
</tr>
</thead>
<tbody>
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<tr>
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<td>5.5</td>
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</tbody>
</table>

#### Totals for Matrix/Analyte/Technology:

- **Labs**: 9  
- **Pass**: 9  
- **Fail**: 0  
- **Total**: 9

#### Totals for Matrix/Analyte:

- **Labs**: 9  
- **Pass**: 9  
- **Fail**: 0  
- **Total**: 9

---

### Potable Water Metolachlor

**Sample**: 1207B  
**Technology**: GC-MS  
**Prep Method**:  
**Target**: 4.59 ug/L  
**Limits**: 2.52 to 6.66 ug/L  
**Basis**: Target Value +/- a fixed percent  
**Robust Mean**: 4.6 ug/L  
**Std Dev**: 0.426 ug/L  
**Median**: 4.7 ug/L  

#### Test Results (End Groups Include Outliers)

<table>
<thead>
<tr>
<th>Test Results (End Groups Include Outliers)</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>5.5</td>
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</tbody>
</table>

#### Totals for Matrix/Analyte/Technology:

- **Labs**: 13  
- **Pass**: 13  
- **Fail**: 0  
- **Total**: 13

#### Totals for Matrix/Analyte:

- **Labs**: 13  
- **Pass**: 13  
- **Fail**: 0  
- **Total**: 13

---

**Score Date**: 05/18/2018  
**Proficiency Test Statistics Page**: 49 of 76
Potable Water Metribuzin

**Shipments**: 412  
**Matrix**: Potable Water  
**Sample**: 1207B  
**Technology**: GC-ECD  
**Prep Method**:  
  - **Target**: 7 ug/L  
  - **Limits**: 3.5 to 10.5 ug/L  
  - **Basis**: Target Value +/- a fixed percent  
  - **Robust Mean**: 7.2 ug/L  
    - **Std Dev**: 7.21 ug/L  
    - **Median**: 7.21 ug/L  

**Totals for Matrix/Analyte/Technology**  
  - Labs: Pass: 1  
  - Fail: 0  
  - Total: 1

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
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<td>1</td>
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<td>2</td>
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</table>

A histogram is not displayed for Technology: GC-ECD due to the limited number of participants.

---

**Potable Water Magnesium, Total**

**Shipments**: 412  
**Matrix**: Potable Water  
**Sample**: 1232  
**Technology**: FAAS  
**Prep Method**:  
  - **Target**: 16.1 mg/L  
  - **Limits**: 13.7 to 18.5 mg/L  
  - **Basis**: Target Value +/- a fixed percent  
  - **Robust Mean**: 14.3 mg/L  
    - **Std Dev**: 0.9471 mg/L  
    - **Median**: 14.12 mg/L  

**Totals for Matrix/Analyte/Technology**  
  - Labs: Pass: 2  
  - Fail: 1  
  - Total: 3

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>14.2</th>
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<tbody>
<tr>
<td>Count</td>
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</table>

A histogram is not displayed for Technology: IC due to the limited number of participants.

---

**Potable Water Magnesium, Total**

**Shipments**: 412  
**Matrix**: Potable Water  
**Sample**: 1232  
**Technology**: IC  
**Prep Method**:  
  - **Target**: 16.1 mg/L  
  - **Limits**: 13.7 to 18.5 mg/L  
  - **Basis**: Target Value +/- a fixed percent  
  - **Robust Mean**: 15.8 mg/L  
    - **Std Dev**: 0 mg/L  
    - **Median**: 15.8 mg/L  

**Totals for Matrix/Analyte/Technology**  
  - Labs: Pass: 1  
  - Fail: 0  
  - Total: 1

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
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**Score Date**: 05/18/2018

---

**Proficiency Test Statistics**

Page 50 of 76
**Potable Water Magnesium, Total**

| Score Date: | 05/18/2018 |
| Proficiency Test Statistics | Page 51 of 76 |

**Shipments:**
- **412**

**Matrix:**
- Potable Water

**Sample:**
- 1232

**Technology:**
- ICP-AES

**Prep Method:**
- Target: 16.1 mg/L
- Limits: 13.7 to 18.5 mg/L
- Basis: Target Value +/- a fixed percent
- Robust Mean: 15.4 mg/L
- Std Dev: 0.6033 mg/L
- Median: 15.4 mg/L

**Totals for Matrix/Analyte/Technology:**
- Labs: 35
- Pass: 34
- Fail: 1

**Tests Results (End Groups Include Outliers):**

<table>
<thead>
<tr>
<th>Number of Labs</th>
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**Potable Water Manganese, Total**

**Shipments:**
- **412**

**Matrix:**
- Potable Water

**Sample:**
- 1206

**Technology:**
- ICP-MS

**Prep Method:**
- Target: 225 ug/L
- Limits: 191 to 259 ug/L
- Basis: Target Value +/- a fixed percent
- Robust Mean: 229 ug/L
- Std Dev: 13,288 ug/L
- Median: 224 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: 3
- Pass: 2
- Fail: 1

**Tests Results (End Groups Include Outliers):**

<table>
<thead>
<tr>
<th>Number of Labs</th>
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<th>244</th>
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<tbody>
<tr>
<td>Number of Labs</td>
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</tbody>
</table>

**Potable Water Manganese, Total**

**Shipments:**
- **412**

**Matrix:**
- Potable Water

**Sample:**
- 1206

**Technology:**
- FAAS

**Prep Method:**
- Target: 225 ug/L
- Limits: 191 to 259 ug/L
- Basis: Target Value +/- a fixed percent
- Robust Mean: 229 ug/L
- Std Dev: 13,288 ug/L
- Median: 224 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: 3
- Pass: 2
- Fail: 1

**Tests Results (End Groups Include Outliers):**

<table>
<thead>
<tr>
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<tr>
<td>Number of Labs</td>
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<td>2</td>
<td>3</td>
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<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

**A histogram is not displayed for Technology: ICP-MS due to the limited number of participants.**
Potable Water Manganese, Total

- **Shipments:** 412
- **Matrix:** Potable Water
- **Analyte:** Manganese, Total
- **Sample:** 1206
- **Technology:** ICP-MS
- **Prep Method:**
  - **Target:** 225 ug/L
  - **Limits:** 191 to 259 ug/L
  - **Basis:** Target Value +/- a fixed percent
  - **Robust Mean:** 221.4 ug/L
    - **Std Dev:** 46.0217 ug/L
    - **Median:** 222.5 ug/L
- **Totals for Matrix/Analyte/Technology:**
  - Labs: Pass: 23, Fail: 1, Total: 24
  - Labs: Pass: 52, Fail: 1, Total: 53

Potable Water Molybdenum, Total

- **Shipments:** 412
- **Matrix:** Potable Water
- **Analyte:** Molybdenum, Total
- **Sample:** 1206
- **Technology:** ICP-AES
- **Prep Method:**
  - **Target:** 87.4 ug/L
  - **Limits:** 74.3 to 101 ug/L
  - **Basis:** Target Value +/- a fixed percent
  - **Robust Mean:** 85.6 ug/L
    - **Std Dev:** 3.4251 ug/L
    - **Median:** 85.6 ug/L
- **Totals for Matrix/Analyte/Technology:**
  - Labs: Pass: 11, Fail: 0, Total: 11
  - Labs: Pass: 25, Fail: 1, Total: 26

Potable Water Molybdenum, Total

- **Shipments:** 412
- **Matrix:** Potable Water
- **Analyte:** Molybdenum, Total
- **Sample:** 1206
- **Technology:** ICP-MS
- **Prep Method:**
  - **Target:** 87.4 ug/L
  - **Limits:** 74.3 to 101 ug/L
  - **Basis:** Target Value +/- a fixed percent
  - **Robust Mean:** 83.9 ug/L
    - **Std Dev:** 4.7387 ug/L
    - **Median:** 84.4 ug/L
- **Totals for Matrix/Analyte/Technology:**
  - Labs: Pass: 14, Fail: 1, Total: 15
  - Labs: Pass: 25, Fail: 1, Total: 26

Potable Water Methoxychlor

- **Shipments:** 412
- **Matrix:** Potable Water
- **Analyte:** Methoxychlor
- **Sample:** 1207A
- **Technology:** GC-ECD
- **Prep Method:**
  - **Target:** 6.68 ug/L
  - **Limits:** 3.67 to 9.69 ug/L
  - **Basis:** Target Value +/- a fixed percent
  - **Robust Mean:** 6 ug/L
    - **Std Dev:** 1.0057 ug/L
    - **Median:** 5.855 ug/L
- **Totals for Matrix/Analyte/Technology:**
  - Labs: Pass: 12, Fail: 0, Total: 12
  - Labs: Pass: 19, Fail: 0, Total: 19

---

Score Date: 05/18/2018

Proficiency Test Statistics
**Potable Water Methoxychlor**

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Analyte:</strong> Methoxychlor</td>
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<tr>
<td><strong>Sample:</strong> 1207A</td>
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</tr>
<tr>
<td><strong>Technology:</strong> GC-MS</td>
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<tr>
<td><strong>Prep Method:</strong></td>
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<tr>
<td><strong>Target:</strong> 6.68 ug/L</td>
<td></td>
</tr>
<tr>
<td><strong>Limits:</strong> 3.67 to 9.69 ug/L</td>
<td></td>
</tr>
<tr>
<td><strong>Basis:</strong> Target Value +/- a fixed percent</td>
<td></td>
</tr>
<tr>
<td><strong>Robust Mean:</strong> 6.6 ug/L</td>
<td></td>
</tr>
<tr>
<td><strong>Std Dev:</strong> 0.7397 ug/L</td>
<td></td>
</tr>
<tr>
<td><strong>Median:</strong> 6.4 ug/L</td>
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**Totals for Matrix/Analyte/Technology:**

<table>
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<th>Labs: Pass</th>
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</table>

**Potable Water Sodium, Total**

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<tbody>
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<td><strong>Technology:</strong> FAAS</td>
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<tr>
<td><strong>Prep Method:</strong></td>
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<tr>
<td><strong>Target:</strong> 16.8 mg/L</td>
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<tr>
<td><strong>Limits:</strong> 14.3 to 19.3 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Basis:</strong> Target Value +/- a fixed percent</td>
<td></td>
</tr>
<tr>
<td><strong>Robust Mean:</strong> 17.4 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Std Dev:</strong> 0.8216 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Median:</strong> 17.4 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs: Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>3</td>
<td>38</td>
</tr>
</tbody>
</table>

**Potable Water Sodium, Total**

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Analyte:</strong> Sodium, Total</td>
<td></td>
</tr>
<tr>
<td><strong>Sample:</strong> 1232</td>
<td></td>
</tr>
<tr>
<td><strong>Technology:</strong> IC</td>
<td></td>
</tr>
<tr>
<td><strong>Prep Method:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Target:</strong> 16.8 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Limits:</strong> 14.3 to 19.3 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Basis:</strong> Target Value +/- a fixed percent</td>
<td></td>
</tr>
<tr>
<td><strong>Robust Mean:</strong> 16.9 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Std Dev:</strong> 0 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Median:</strong> 16.9 mg/L</td>
<td></td>
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</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs: Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**Potable Water Sodium, Total**

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Analyte:</strong> Sodium, Total</td>
<td></td>
</tr>
<tr>
<td><strong>Sample:</strong> 1232</td>
<td></td>
</tr>
<tr>
<td><strong>Technology:</strong> ICP-AES</td>
<td></td>
</tr>
<tr>
<td><strong>Prep Method:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Target:</strong> 16.8 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Limits:</strong> 14.3 to 19.3 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Basis:</strong> Target Value +/- a fixed percent</td>
<td></td>
</tr>
<tr>
<td><strong>Robust Mean:</strong> 17.4 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Std Dev:</strong> 1.1575 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Median:</strong> 17.1 mg/L</td>
<td></td>
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**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs: Pass</th>
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<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
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<td>31</td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte:**

<table>
<thead>
<tr>
<th>Labs: Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>3</td>
<td>38</td>
</tr>
</tbody>
</table>
Potable Water Sodium, Total

A histogram is not displayed for Technology: ICP-MS due to the limited number of participants.

Potable Water Naphthalene

Potable Water n-Butylbenzene

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water n-Butylbenzene

Score Date: 05/18/2018
A histogram is not displayed for Technology: FAAS due to the limited number of participants.
Potable Water Nitrite (as N)

Number of Labs

Test Results (End Groups Include Outliers)

Robust Mean: 0.6 mg/L
Std Dev: 0.1448 mg/L
Median: 0.63 mg/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 48 Fail: 1 Total: 49

Potable Water Nitrate (as N)

Number of Labs

Test Results (End Groups Include Outliers)

Robust Mean: 9.7 mg/L
Std Dev: 0.4737 mg/L
Median: 9.835 mg/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 58 Fail: 1 Total: 59

Potable Water Nitrate (as N)

Number of Labs

Test Results (End Groups Include Outliers)

Robust Mean: 9.9 mg/L
Std Dev: 0.4229 mg/L
Median: 9.94 mg/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 58 Fail: 1 Total: 59
**Potable Water Nitrate (as N)**

**Sample:** 1202  
**Prep Method:** IC-COND  
**Target:** 9.92 mg/L  
**Limits:** 8.93 to 10.9 mg/L  
**Basis:** Target Value +/- a fixed percent  
**Robust Mean:** 9.8 mg/L  
**Std Dev:** 0.3034 mg/L  
**Median:** 9.8 mg/L  
**Labs:** 9  
**Pass:** 9.4  
**Fail:** 9  
**Total:** 18

**Potable Water n-Propylbenzene**

**Sample:** 1221  
**Prep Method:** GC-MS  
**Target:** 18.1 ug/L  
**Limits:** 14.7 to 22.1 ug/L  
**Basis:** Fixed Percent (2)  
**Robust Mean:** 18.1 ug/L  
**Std Dev:** 1.2458 ug/L  
**Median:** 18.1 ug/L  
**Labs:** 31  
**Pass:** 30  
**Fail:** 0  
**Total:** 31

**Potable Water Aldicarb Sulfoxide**

**Sample:** 1221  
**Prep Method:** GCE LCD/PID  
**Target:** 15.9 ug/L  
**Limits:** 14.7 to 22.1 ug/L  
**Basis:** Fixed Percent (2)  
**Robust Mean:** 15.9 ug/L  
**Std Dev:** 0 ug/L  
**Median:** 15.9 ug/L  
**Labs:** 1  
**Pass:** 1  
**Fail:** 0  
**Total:** 1

A histogram is not displayed for Technology: GCE LCD/PID due to the limited number of participants.
Shipments: 412  Matrix: Potable Water
Analyte: Aldicarb Sulfoxide
Sample: 1215
Technology: HPLC-FLUOR
Prep Method:
Target: 24.1 ug/L
Limits: 18.1 to 30.1 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 25.6 ug/L
Std Dev: 5.552 ug/L
Median: 23.4 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 9  Fail: 2  Total: 9

Shipments: 412  Matrix: Potable Water
Analyte: Lead, Total
Sample: 1206
Technology: GFAAS
Prep Method:
Target: 40 ug/L
Limits: 28 to 52 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 39.5 ug/L
Std Dev: 13.0352 ug/L
Median: 39.35 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 56  Fail: 0  Total: 56

Shipments: 412  Matrix: Potable Water
Analyte: Lead, Total
Sample: 1206
Technology: ICP-AES
Prep Method:
Target: 40 ug/L
Limits: 28 to 52 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 40.9 ug/L
Std Dev: 16.9424 ug/L
Median: 41.185 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 6  Fail: 0  Total: 6

Shipments: 412  Matrix: Potable Water
Analyte: Lead, Total
Sample: 1206
Technology: ICP-MS
Prep Method:
Target: 40 ug/L
Limits: 28 to 52 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 39.5 ug/L
Std Dev: 1.8242 ug/L
Median: 39.8 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 32  Fail: 0  Total: 32

Score Date: 05/18/2018
Proficiency Test Statistics
Page 58 of 76
Potable Water PCB, Total (as decachlorobiphenyl)

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Sample:** 1225  
  **Technology:** GC-ECD  
  **Prep Method:**  
  **Target:** 1.94 ug/L  
  **Limits:** 0 to 3.88 ug/L  
  **Basis:** Target Value +/- a fixed percent  
  **Robust Mean:** 2 ug/L  
  **Std Dev:** 0.6576 ug/L  
  **Median:** 2.005 ug/L  
  **Totals for Matrix/Analyte/Technology:**  
  **Labs:** Pass: 2  
  **Total:** 2

A histogram is not displayed for Technology: GC-ECD due to the limited number of participants.

**Potable Water Pentachlorophenol**

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Sample:** 1217  
  **Technology:** GC-ECD  
  **Prep Method:**  
  **Target:** 24.2 ug/L  
  **Limits:** 12.1 to 36.3 ug/L  
  **Basis:** Target Value +/- a fixed percent  
  **Robust Mean:** 21.5 ug/L  
  **Std Dev:** 2.6469 ug/L  
  **Median:** 21.1 ug/L  
  **Totals for Matrix/Analyte/Technology:**  
  **Labs:** Pass: 10  
  **Total:** 10

A histogram is not displayed for Technology: HPLC-UV due to the limited number of participants.

**Potable Water Perchlorate**

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Sample:** 1237  
  **Technology:** HPLC-ESMS  
  **Prep Method:**  
  **Target:** 15.2 ug/L  
  **Limits:** 12.2 to 18.2 ug/L  
  **Basis:** Target Value +/- a fixed percent  
  **Robust Mean:** 15.1 ug/L  
  **Std Dev:** 0 ug/L  
  **Median:** 15.1 ug/L  
  **Totals for Matrix/Analyte/Technology:**  
  **Labs:** Pass: 1  
  **Total:** 1

A histogram is not displayed for Technology: HPLC-ESMS due to the limited number of participants.
Potable Water Perchlorate

**Number of Labs**

| 12.4 | 15.5 | 0 |

**Fail:** 0  
**Labs:** Pass: 12.4  
**Total:** 12.4

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 3  
**Fail:** 0  
**Total:** 3

**Robust Mean:** 14.4 ug/L  
**Std Dev:** 1.7673 ug/L  
**Median:** 15.3 ug/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Perchlorate  
**Sample:** 1237  
**Technology:** IC-COND  
**Prep Method:**  
**Target:** 15.2 ug/L  
**Limits:** 12.2 to 18.2 ug/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 4  
**Total:** 4

**Shipment:**  
**Robust Mean:** 76.4 ug/L  
**Std Dev:** 0 ug/L  
**Median:** 76.4 ug/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Picloram  
**Sample:** 1217  
**Technology:** GC-ECD  
**Prep Method:**  
**Target:** 79 ug/L  
**Limits:** 39.5 to 119 ug/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 11  
**Total:** 11

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 10  
**Fail:** 0  
**Total:** 10

**Robust Mean:** 84.6 ug/L  
**Std Dev:** 0 ug/L  
**Median:** 84.6 ug/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Picloram  
**Sample:** 1217  
**Technology:** HPLC-UV  
**Prep Method:**  
**Target:** 79 ug/L  
**Limits:** 39.5 to 119 ug/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 11  
**Total:** 11

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 1  
**Fail:** 0  
**Total:** 1

**Robust Mean:** 84.6 ug/L  
**Std Dev:** 0 ug/L  
**Median:** 84.6 ug/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Picloram  
**Sample:** 1217  
**Technology:** AUTO  
**Prep Method:**  
**Target:** 3.37 mg/L  
**Limits:** 2.86 to 3.88 mg/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 35  
**Total:** 37

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 2  
**Fail:** 0  
**Total:** 2

**Robust Mean:** 3.5 mg/L  
**Std Dev:** 0.1202 mg/L  
**Median:** 3.515 mg/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Orthophosphate (as P)  
**Sample:** 1202  
**Technology:** AUTO  
**Prep Method:**  
**Target:** 3.37 mg/L  
**Limits:** 2.86 to 3.88 mg/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 35  
**Total:** 37

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 2  
**Fail:** 0  
**Total:** 2

**Robust Mean:** 3.5 mg/L  
**Std Dev:** 0.1202 mg/L  
**Median:** 3.515 mg/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Orthophosphate (as P)  
**Sample:** 1202  
**Technology:** AUTO  
**Prep Method:**  
**Target:** 3.37 mg/L  
**Limits:** 2.86 to 3.88 mg/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 35  
**Total:** 37

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 2  
**Fail:** 0  
**Total:** 2

**Robust Mean:** 3.5 mg/L  
**Std Dev:** 0.1202 mg/L  
**Median:** 3.515 mg/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Orthophosphate (as P)  
**Sample:** 1202  
**Technology:** AUTO  
**Prep Method:**  
**Target:** 3.37 mg/L  
**Limits:** 2.86 to 3.88 mg/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 35  
**Total:** 37

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 2  
**Fail:** 0  
**Total:** 2

**Robust Mean:** 3.5 mg/L  
**Std Dev:** 0.1202 mg/L  
**Median:** 3.515 mg/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Orthophosphate (as P)  
**Sample:** 1202  
**Technology:** AUTO  
**Prep Method:**  
**Target:** 3.37 mg/L  
**Limits:** 2.86 to 3.88 mg/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 35  
**Total:** 37

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 2  
**Fail:** 0  
**Total:** 2

**Robust Mean:** 3.5 mg/L  
**Std Dev:** 0.1202 mg/L  
**Median:** 3.515 mg/L

**Basis:** Target Value +/- a fixed percent

**Analyte:** Orthophosphate (as P)  
**Sample:** 1202  
**Technology:** AUTO  
**Prep Method:**  
**Target:** 3.37 mg/L  
**Limits:** 2.86 to 3.88 mg/L  
**Basis:** Target Value +/- a fixed percent

**Fail:** 0  
**Labs:** Pass: 35  
**Total:** 37

**Totals for Matrix/Analyte/Technology:**  
**Labs:** Pass: 2  
**Fail:** 0  
**Total:** 2

**Robust Mean:** 3.5 mg/L  
**Std Dev:** 0.1202 mg/L  
**Median:** 3.515 mg/L

**Basis:** Target Value +/- a fixed percent
Potable Water Orthophosphate (as P)

Sample: 412  
Matrix: Potable Water  
Analyte: Orthophosphate (as P)  
Technology: COLOR  
Prep Method:  
Target: 3.37 mg/L  
Limits: 2.86 to 3.88 mg/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 3.4 mg/L  
Std Dev: 0.2226 mg/L  
Median: 3.41 mg/L  

Test Results (End Groups Include Outliers)

Number of Labs: 3  

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 16  Fail: 1  Total: 17  

Potable Water Orthophosphate (as P)

Sample: 412  
Matrix: Potable Water  
Analyte: Orthophosphate (as P)  
Technology: IC-COND  
Prep Method:  
Target: 3.37 mg/L  
Limits: 2.86 to 3.88 mg/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 3.3 mg/L  
Std Dev: 0.804 mg/L  
Median: 3.33 mg/L  

Test Results (End Groups Include Outliers)

Number of Labs: 3  

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 17  Fail: 1  Total: 18  

Potable Water Propachlor

Sample: 412  
Matrix: Potable Water  
Analyte: Propachlor  
Technology: GC-ECD  
Prep Method:  
Target: 2.08 ug/L  
Limits: 1.14 to 3.02 ug/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 2.1 ug/L  
Std Dev: 1.0328 ug/L  
Median: 1.99 ug/L  

Test Results (End Groups Include Outliers)

Number of Labs: 3  

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 3  Fail: 1  Total: 4  

Potable Water Propachlor

Sample: 412  
Matrix: Potable Water  
Analyte: Propachlor  
Technology: GC-MS  
Prep Method:  
Target: 2.08 ug/L  
Limits: 1.14 to 3.02 ug/L  
Basis: Target Value +/- a fixed percent  
Robust Mean: 2 ug/L  
Std Dev: 0.3039 ug/L  
Median: 1.98 ug/L  

Test Results (End Groups Include Outliers)

Number of Labs: 3  

Totals for Matrix/Analyte/Technology:  
Labs: Pass: 12  Fail: 0  Total: 12  

Potable Water Solids, Total Dissolved

Score Date: 05/18/2018  
Proficiency Test Statistics  
Page 61 of 76
**Potable Water Solids, Total Dissolved**

- **Shipment:** 412  
  **Matrix:** Potable Water  
- **Sample:** 1231  
- **Technology:** GRAV  
- **Prep Method:**  
  - **Target:** 652 mg/L  
  - **Limits:** 522 to 782 mg/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 647 mg/L  
  - **Std Dev:** 145.6633 mg/L  
  - **Median:** 650 mg/L  
- **Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass 39  
  - Fail 0  
  - Total: 39

**Potable Water Antimony, Total**

- **Shipment:** 412  
  **Matrix:** Potable Water  
- **Sample:** 1206  
- **Technology:** GFAAS  
- **Prep Method:**  
  - **Target:** 35.1 ug/L  
  - **Limits:** 24.6 to 45.6 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 38.4 ug/L  
  - **Std Dev:** 2.6589 ug/L  
  - **Median:** 38.3 ug/L  
- **Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass 7  
  - Fail 0  
  - Total: 7

**Potable Water Antimony, Total**

- **Shipment:** 412  
  **Matrix:** Potable Water  
- **Sample:** 1206  
- **Technology:** ICP-AES  
- **Prep Method:**  
  - **Target:** 35.1 ug/L  
  - **Limits:** 24.6 to 45.6 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 38.6 ug/L  
  - **Std Dev:** 2.0506 ug/L  
  - **Median:** 38.55 ug/L  
- **Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass 2  
  - Fail 0  
  - Total: 2

**Potable Water Antimony, Total**

- **Shipment:** 412  
  **Matrix:** Potable Water  
- **Sample:** 1206  
- **Technology:** ICP-MS  
- **Prep Method:**  
  - **Target:** 35.1 ug/L  
  - **Limits:** 24.6 to 45.6 ug/L  
- **Basis:** Target Value +/- a fixed percent  
- **Robust Mean:** 34.1 ug/L  
  - **Std Dev:** 1.9188 ug/L  
  - **Median:** 34.3 ug/L  
- **Totals for Matrix/Analyte/Technology:**  
  - Labs: Pass 29  
  - Fail 0  
  - Total: 29

**Potable Water sec-Butylbenzene**

**Score Date:** 05/18/2018  
**Proficiency Test Statistics**
Potable Water sec-Butylbenzene

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>9.2</th>
<th>9.7</th>
<th>10.2</th>
<th>10.7</th>
<th>11.2</th>
<th>11.7</th>
<th>12.7</th>
<th>13.2</th>
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<tbody>
<tr>
<td>9.2</td>
<td>9.7</td>
<td>10.2</td>
<td>10.7</td>
<td>11.2</td>
<td>11.7</td>
<td>12.7</td>
<td>13.2</td>
<td></td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**

- Labs: Pass: 29, Fail: 2, Total: 31

**A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.**

Potable Water Specific Conductance

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>935</th>
<th>948</th>
<th>961</th>
<th>974</th>
<th>987</th>
<th>1000</th>
<th>1026</th>
<th>1039</th>
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</thead>
<tbody>
<tr>
<td>935</td>
<td>948</td>
<td>961</td>
<td>974</td>
<td>987</td>
<td>1000</td>
<td>1026</td>
<td>1039</td>
<td></td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**

- Labs: Pass: 46, Fail: 1, Total: 47

Potable Water Selenium, Total

**Test Results (End Groups Include Outliers)**

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>69.7</th>
<th>74.6</th>
<th>79.6</th>
<th>84.6</th>
<th>89.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>69.7</td>
<td>74.6</td>
<td>79.6</td>
<td>84.6</td>
<td>89.5</td>
<td></td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**

- Labs: Pass: 8, Fail: 0, Total: 8

**Score Date:** 05/18/2018

**Proficiency Test Statistics**
### Proficiency Test Statistics

**Potable Water Selenium, Total**

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Sample:** 1206  
  **Technology:** ICP-AES  
  **Prep Method:**  
    - **Target:** 80.1 ug/L  
    - **Limits:** 64.1 to 96.1 ug/L  
    - **Basis:** Target Value +/- a fixed percent  
  **Robust Mean:** 72.6 ug/L  
  - **Std Dev:** 10.748 ug/L  
  - **Median:** 72.6 ug/L  
  **Totals for Matrix/Analyte/Technology:**  
    - Labs: Pass: 0  
    - Fail: 0  
    - Total: 0

A histogram is not displayed for Technology: ICP-AES due to the limited number of participants.

### Potable Water Selenium, Total

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Results (End Groups Include Outliers)</td>
<td>69.7</td>
<td>72.1</td>
<td>74.6</td>
<td>77.1</td>
<td>79.6</td>
<td>82.1</td>
<td>84.6</td>
<td>87.1</td>
<td>89.5</td>
<td></td>
</tr>
</tbody>
</table>

**Robust Mean:** 79.1 ug/L  
**Std Dev:** 4.7687 ug/L  
**Median:** 79.65 ug/L  
**Basis:** Target Value +/- a fixed percent  
**Analyte:** Selenium, Total  
**Sample:** 1206  
**Limits:** 64.1 to 96.1 ug/L  
**Target:** 80.1 ug/L  
**Technology:** ICP-MS  
**Prep Method:**  
**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 1  
- Fail: 0  
- Total: 1

### Potable Water Silica, Dissolved

- **Shipment:** 412  
  **Matrix:** Potable Water  
  **Sample:** 1228  
  **Technology:** AUTO  
  **Prep Method:**  
    - **Target:** 55.1 mg/L  
    - **Limits:** 46.8 to 63.4 mg/L  
    - **Basis:** Target Value +/- a fixed percent  
  **Robust Mean:** 55.2 mg/L  
  - **Std Dev:** 0 mg/L  
  - **Median:** 55.2 mg/L  
  **Totals for Matrix/Analyte/Technology:**  
    - Labs: Pass: 3  
    - Fail: 0  
    - Total: 3

A histogram is not displayed for Technology: AUTO due to the limited number of participants.

### Potable Water Silica, Dissolved

<table>
<thead>
<tr>
<th>Number of Labs</th>
<th>0</th>
<th>0.5</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Results (End Groups Include Outliers)</td>
<td>51.9</td>
<td>56.1</td>
<td>57.5</td>
</tr>
</tbody>
</table>

**Robust Mean:** 55.1 mg/L  
**Std Dev:** 2.8042 mg/L  
**Median:** 56.6 mg/L  
**Basis:** Target Value +/- a fixed percent  
**Analyte:** Silica, Dissolved  
**Sample:** 1228  
**Limits:** 46.8 to 63.4 mg/L  
**Target:** 55.1 mg/L  
**Technology:** COLOR  
**Prep Method:**  
**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 11  
- Fail: 1  
- Total: 12

### Potable Water Silica, Dissolved

**Score Date:** 05/18/2018

Proficiency Test Statistics
Potable Water Silica, Dissolved

Number of Labs

Robust Mean: 54.1 mg/L
Std Dev: 3.9413 mg/L
Median: 53.8 mg/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 49.2 Fail: 51.9 Total: 101

Totals for Matrix/Analyte:
Labs: Pass: 54.7 Fail: 56.1 Total: 110.8

Potable Water Simazine

Number of Labs

Robust Mean: 9.9 ug/L
Std Dev: 1.2878 ug/L
Median: 10.1 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 11 Fail: 1 Total: 12

Totals for Matrix/Analyte:
Labs: Pass: 15 Fail: 0 Total: 15

Potable Water Simazine

Number of Labs

Robust Mean: 10.1 ug/L
Std Dev: 3.0394 ug/L
Median: 9.8 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 12 Fail: 0 Total: 12

Totals for Matrix/Analyte:
Labs: Pass: 15 Fail: 0 Total: 15

Potable Water 2,4,5-TP (Silvex)

Number of Labs

Robust Mean: 27.8 ug/L
Std Dev: 3.2493 ug/L
Median: 27.8 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 10 Fail: 0 Total: 10

Totals for Matrix/Analyte:
Labs: Pass: 11 Fail: 0 Total: 11

Profile Date: 05/18/2018
**Potable Water 2,4,5-TP (Silvex)**

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte: 2,4,5-TP (Silvex)</td>
<td></td>
</tr>
<tr>
<td>Sample: 1217</td>
<td></td>
</tr>
<tr>
<td>Technology: HPLC-UV</td>
<td></td>
</tr>
<tr>
<td>Prep Method:</td>
<td></td>
</tr>
<tr>
<td>Target: 30.6 ug/L</td>
<td></td>
</tr>
<tr>
<td>Limits: 15.3 to 45.9 ug/L</td>
<td></td>
</tr>
<tr>
<td>Basis: Target Value +/- a fixed percent</td>
<td></td>
</tr>
<tr>
<td>Robust Mean: 29.2 ug/L</td>
<td></td>
</tr>
<tr>
<td>Std Dev: 0 ug/L</td>
<td></td>
</tr>
<tr>
<td>Median: 29.2 ug/L</td>
<td></td>
</tr>
</tbody>
</table>

Totals for Matrix/Analyte/Technology:
- Labs: Pass: 1
- Fail: 0
- Total: 1

A histogram is not displayed for Technology: HPLC-UV due to the limited number of participants.

---

**Potable Water Sulfate (as SO4)**

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte: Sulfate (as SO4)</td>
<td></td>
</tr>
<tr>
<td>Sample: 1202</td>
<td></td>
</tr>
<tr>
<td>Technology: AUTO</td>
<td></td>
</tr>
<tr>
<td>Prep Method:</td>
<td></td>
</tr>
<tr>
<td>Target: 204 mg/L</td>
<td></td>
</tr>
<tr>
<td>Limits: 173 to 235 mg/L</td>
<td></td>
</tr>
<tr>
<td>Basis: Target Value +/- a fixed percent</td>
<td></td>
</tr>
<tr>
<td>Robust Mean: 204 mg/L</td>
<td></td>
</tr>
<tr>
<td>Std Dev: 0 mg/L</td>
<td></td>
</tr>
<tr>
<td>Median: 204 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

Totals for Matrix/Analyte/Technology:
- Labs: Pass: 1
- Fail: 0
- Total: 1

A histogram is not displayed for Technology: AUTO due to the limited number of participants.

---

**Potable Water Sulfate (as SO4)**

Test Results (End Groups Include Outliers)

<table>
<thead>
<tr>
<th>Number of Labs</th>
</tr>
</thead>
<tbody>
<tr>
<td>191 206 213 221</td>
</tr>
</tbody>
</table>

---

**Potable Water Sulfate (as SO4)**

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte: Sulfate (as SO4)</td>
<td></td>
</tr>
<tr>
<td>Sample: 1202</td>
<td></td>
</tr>
<tr>
<td>Technology: COLOR</td>
<td></td>
</tr>
<tr>
<td>Prep Method:</td>
<td></td>
</tr>
<tr>
<td>Target: 204 mg/L</td>
<td></td>
</tr>
<tr>
<td>Limits: 173 to 235 mg/L</td>
<td></td>
</tr>
<tr>
<td>Basis: Target Value +/- a fixed percent</td>
<td></td>
</tr>
<tr>
<td>Robust Mean: 206.4 mg/L</td>
<td></td>
</tr>
<tr>
<td>Std Dev: 87.6983 mg/L</td>
<td></td>
</tr>
<tr>
<td>Median: 205 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

Totals for Matrix/Analyte/Technology:
- Labs: Pass: 9
- Fail: 1
- Total: 10

---

**Potable Water Sulfate (as SO4)**

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte: Sulfate (as SO4)</td>
<td></td>
</tr>
<tr>
<td>Sample: 1202</td>
<td></td>
</tr>
<tr>
<td>Technology: GRAV</td>
<td></td>
</tr>
<tr>
<td>Prep Method:</td>
<td></td>
</tr>
<tr>
<td>Target: 204 mg/L</td>
<td></td>
</tr>
<tr>
<td>Limits: 173 to 235 mg/L</td>
<td></td>
</tr>
<tr>
<td>Basis: Target Value +/- a fixed percent</td>
<td></td>
</tr>
<tr>
<td>Robust Mean: 216 mg/L</td>
<td></td>
</tr>
<tr>
<td>Std Dev: 0 mg/L</td>
<td></td>
</tr>
<tr>
<td>Median: 216 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

Totals for Matrix/Analyte/Technology:
- Labs: Pass: 1
- Fail: 0
- Total: 1

A histogram is not displayed for Technology: GRAV due to the limited number of participants.

---

**Score Date:** 05/18/2018

**Proficiency Test Statistics**
### Potable Water Sulfate (as SO₄)

**Analyte:** Sulfate (as SO₄)

**Sample:** 1202

**Technology:** IC-COND

**Target:** 204 mg/L

**Limits:** 173 to 235 mg/L

**Basis:** Target Value +/- a fixed percent

**Robust Mean:** 205.2 mg/L

**Std Dev:** 49.3645 mg/L

**Median:** 205 mg/L

**Fail:** 1

**Labs: Pass:** 44

**Fail:** 2

**Total:** 46

**Totals for Matrix/Analyte:**

<table>
<thead>
<tr>
<th>Labs</th>
<th>Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>44</td>
<td></td>
<td>2</td>
<td>46</td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs</th>
<th>Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>1</td>
<td>34</td>
<td></td>
</tr>
</tbody>
</table>

**Basis:** Fixed Percent (2)

**Target:** 204 mg/L

**Limit:** 173 to 235 mg/L

**Robust Mean:** 205 mg/L

**Std Dev:** 49.3645 mg/L

**Median:** 205 mg/L

**Fail:** 1

**Labs: Pass:** 29

**Fail:** 1

**Total:** 30

**Totals for Matrix/Analyte:**

<table>
<thead>
<tr>
<th>Labs</th>
<th>Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>1</td>
<td>29</td>
<td></td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs</th>
<th>Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Basis:** Linear Regression

**Target:** 0.866 mg/L

**Limit:** 0.668 to 1.04 mg/L

**Robust Mean:** 0.866 mg/L

**Std Dev:** 0.148 mg/L

**Median:** 0.895 mg/L

**Fail:** 5

**Labs: Pass:** 13

**Fail:** 5

**Total:** 18

**Totals for Matrix/Analyte:**

<table>
<thead>
<tr>
<th>Labs</th>
<th>Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>5</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

**Totals for Matrix/Analyte/Technology:**

<table>
<thead>
<tr>
<th>Labs</th>
<th>Pass</th>
<th>Fail</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>5</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

---

**Score Date:** 05/18/2018

**Proficiency Test Statistics**
**Potable Water trans-1,2-Dichloroethene**

**Analyte:** trans-1,2-Dichloroethene  
**Sample:** 1220  
**Technology:** GC-MS  
**Prep Method:**  
**Target:** 14.2 ug/L  
**Limits:** 11.4 to 17 ug/L  
**Basis:** Fixed Percent (2)  
**Robust Mean:** 14.6 ug/L  
**Std Dev:** 1.7384 ug/L  
**Median:** 14.8 ug/L  

**Number of Labs**  
- 11.8  
- 12.7  
- 13.5  
- 14.4  
- 15.3  
- 16.1  
- 17  
- 17.8  
- 0  
- 2  
- 4  
- 6  
- 8

**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 27  
- Fail: 2  
- Total: 29

**Totals for Matrix/Analyte:**  
- Labs: Pass: 28  
- Fail: 2  
- Total: 30

---

**Potable Water tert-Butylbenzene**

**Analyte:** tert-Butylbenzene  
**Sample:** 1221  
**Technology:** GC-MS  
**Prep Method:**  
**Target:** 12.9 ug/L  
**Limits:** 10.3 to 15.5 ug/L  
**Basis:** Fixed Percent (2)  
**Robust Mean:** 12.6 ug/L  
**Std Dev:** 1.2873 ug/L  
**Median:** 12.7 ug/L  

**Number of Labs**  
- 10.2  
- 10.8  
- 11.4  
- 12  
- 12.6  
- 13.2  
- 13.8  
- 14.4  
- 15  
- 0  
- 1  
- 2  
- 3  
- 4  
- 5  
- 6  
- 7

**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 27  
- Fail: 3  
- Total: 30

**Totals for Matrix/Analyte:**  
- Labs: Pass: 28  
- Fail: 3  
- Total: 31

---

**Potable Water tert-Butylbenzene**

**Analyte:** tert-Butylbenzene  
**Sample:** 1221  
**Technology:** GCELCD/PID  
**Prep Method:**  
**Target:** 12.9 ug/L  
**Limits:** 10.3 to 15.5 ug/L  
**Basis:** Fixed Percent (2)  
**Robust Mean:** 11.1 ug/L  
**Std Dev:** 0 ug/L  
**Median:** 11.1 ug/L  

**Number of Labs**  
- 10.2  
- 10.8  
- 11.4  
- 12  
- 12.6  
- 13.2  
- 13.8  
- 14.4  
- 15  
- 0  
- 1  
- 2  
- 3  
- 4  
- 5  
- 6  
- 7

**Totals for Matrix/Analyte/Technology:**  
- Labs: Pass: 1  
- Fail: 0  
- Total: 1

**Totals for Matrix/Analyte:**  
- Labs: Pass: 28  
- Fail: 3  
- Total: 31

---

**Potable Water Trichloroacetic acid**

**Score Date:** 05/18/2018
Potable Water Trichloroacetic acid

Test Results (End Groups Include Outliers)

Number of Labs

0 1 2 3 4 5 6

39.4 40.7 42 43.3 44.8 45.9 47.2 49.8

Potable Water Matrix:

Fail: 0
Labs: 17
Pass: 17
Total: 17

Potable Water Trichloroacetic acid

Test Results (End Groups Include Outliers)

Number of Labs

0 2 4 6 8

8.1 8.4 8.9 9.3 9.8 10.2 10.7 11.1 11.6

Potable Water Tetrachloroethene

Test Results (End Groups Include Outliers)

Number of Labs

0 2 4 6 8

8 8.4 8.9 9.3 9.8 10.2 10.7 11.1 11.6

Potable Water Tetrachloroethene

Test Results (End Groups Include Outliers)

Number of Labs

0 2 4 6 8

8 8.4 8.9 9.3 9.8 10.2 10.7 11.1 11.6

A histogram is not displayed for Technology: IC-ESI-MS due to the limited number of participants.

A histogram is not displayed for Technology: GC-ECD/PID due to the limited number of participants.
A histogram is not displayed for Technology: GC-ECD due to the limited number of participants.
Potable Water Organic Carbon, Total

Number of Labs: 3.6

Potable Water Matrix: 412

Fail: 1

Labs: 18

Total: 19

Robust Mean: 4.1 mg/L

Std Dev: 0.3317 mg/L

Median: 3.98 mg/L

Test Results (End Groups Include Outliers)

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Toluene

Number of Labs: 3.9

Potable Water Matrix: 412

Fail: 0

Labs: 30

Total: 30

Robust Mean: 3.9 ug/L

Std Dev: 0.2667 ug/L

Median: 3.87 ug/L

Test Results (End Groups Include Outliers)

Potable Water Toluene

Number of Labs: 3.6

Potable Water Matrix: 412

Fail: 0

Labs: 13

Total: 12

Robust Mean: 6.1 ug/L

Std Dev: 1.0364 ug/L

Median: 6.31 ug/L

Test Results (End Groups Include Outliers)

Score Date: 05/18/2018
Potable Water Toxaphene

- **Analyte**: Toxaphene
- **Sample**: 1216
- **Technology**: GC-MS
- **Prep Method**: Target: 5.54 ug/L, Limits: 3.05 to 8.03 ug/L, Basis: Target Value +/- a fixed percent
- **Robust Mean**: 4.7 ug/L
  - Std Dev: 0 ug/L
  - Median: 4.72 ug/L

**Totals for Matrix/Analyte/Technology**:
- Labs: Pass: 1, Fail: 0, Total: 1
- Labs: Pass: 13, Fail: 0, Total: 13

A histogram is not displayed for **Technology: GC-MS** due to the limited number of participants.

---

**Potable Water Trichloroethene**

- **Analyte**: Trichloroethene
- **Sample**: 1220
- **Technology**: GC-MS
- **Prep Method**: Target: 6.95 ug/L, Limits: 4.17 to 9.73 ug/L, Basis: Fixed Percent (2)
- **Robust Mean**: 6.8 ug/L
  - Std Dev: 1.3217 ug/L
  - Median: 6.8 ug/L

**Totals for Matrix/Analyte/Technology**:
- Labs: Pass: 30, Fail: 0, Total: 30
- Labs: Pass: 31, Fail: 0, Total: 31

**Totals for Matrix/Analyte**:
- Labs: Pass: 1, Fail: 0, Total: 1
- Labs: Pass: 31, Fail: 0, Total: 31

A histogram is not displayed for **Technology: GCELCD/PID** due to the limited number of participants.

---

**Potable Water Turbidity**

- **Analyte**: Turbidity
- **Sample**: 1234
- **Technology**: COLOR
- **Prep Method**: Target: 2.94 NTU, Limits: 2.46 to 3.39 NTU, Basis: Linear Regression
- **Robust Mean**: 2.9 NTU
  - Std Dev: 0.2766 NTU
  - Median: 2.865 NTU

**Totals for Matrix/Analyte/Technology**:
- Labs: Pass: 42, Fail: 4, Total: 46
- Labs: Pass: 42, Fail: 4, Total: 46

**Totals for Matrix/Analyte**:
- Labs: Pass: 42, Fail: 4, Total: 46
- Labs: Pass: 42, Fail: 4, Total: 46

---

**Potable Water Total Xylenes**

- **Analyte**: Total Xylenes
- **Sample**: 1234
- **Technology**: COLOR
- **Prep Method**: Target: 20.94 NTU, Limits: 22.46 to 34.39 NTU, Basis: Linear Regression
- **Robust Mean**: 2.9 NTU
  - Std Dev: 0.2766 NTU
  - Median: 2.865 NTU

**Totals for Matrix/Analyte/Technology**:
- Labs: Pass: 42, Fail: 4, Total: 46
- Labs: Pass: 42, Fail: 4, Total: 46

**Totals for Matrix/Analyte**:
- Labs: Pass: 42, Fail: 4, Total: 46
- Labs: Pass: 42, Fail: 4, Total: 46
### Potable Water Total Xylenes

**Shipments:**
- 412

**Matrix:**
- Potable Water

**Analyte:**
- Total Xylenes

**Sample:**
- 1221

**Technology:**
- GC-MS

**Prep Method:**
- Target: 18.2 ug/L
- Limits: 14.6 to 21.8 ug/L
- Basis: Fixed Percent (2)
- Robust Mean: 19.1 ug/L
- Std Dev: 1.5449 ug/L
- Median: 18.1 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 29
- Fail: 1
- Total: 30

**Totals for Matrix/Analyte:**
- Labs: Pass: 28
- Fail: 1
- Total: 29

### Potable Water Uranium (Mass)

**Shipments:**
- 412

**Matrix:**
- Potable Water

**Analyte:**
- Uranium (Mass)

**Sample:**
- 1206

**Technology:**
- COLOR

**Prep Method:**
- Target: 37.5 ug/L
- Limits: 30.2 to 41.7 ug/L
- Basis: Linear Regression
- Robust Mean: 36.7 ug/L
- Std Dev: 0 ug/L
- Median: 36.73 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 8
- Fail: 0
- Total: 8

**Totals for Matrix/Analyte:**
- Labs: Pass: 7
- Fail: 0
- Total: 7

### Potable Water UV 254

**Shipments:**
- 412

**Matrix:**
- Potable Water

**Analyte:**
- Uranium (Mass)

**Sample:**
- 1206

**Technology:**
- ICP-MS

**Prep Method:**
- Target: 37.5 ug/L
- Limits: 30.2 to 41.7 ug/L
- Basis: Linear Regression
- Robust Mean: 35.4 ug/L
- Std Dev: 2.5572 ug/L
- Median: 35.6 ug/L

**Totals for Matrix/Analyte/Technology:**
- Labs: Pass: 8
- Fail: 0
- Total: 8

**Totals for Matrix/Analyte:**
- Labs: Pass: 8
- Fail: 0
- Total: 8

**Score Date:**
- 05/18/2018
### Potable Water UV 254

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte: UV 254</td>
<td></td>
</tr>
<tr>
<td>Sample: 1239</td>
<td></td>
</tr>
<tr>
<td>Technology: COLOR</td>
<td></td>
</tr>
<tr>
<td>Prep Method:</td>
<td></td>
</tr>
<tr>
<td>Target: 0.605 cm⁻¹</td>
<td></td>
</tr>
<tr>
<td>Limits: 0.492 to 0.717 cm⁻¹</td>
<td></td>
</tr>
<tr>
<td>Basis: Linear Regression</td>
<td></td>
</tr>
<tr>
<td>Robust Mean: 0.7 cm⁻¹</td>
<td></td>
</tr>
<tr>
<td>Std Dev: 0.0759 cm⁻¹</td>
<td></td>
</tr>
<tr>
<td>Median: 0.69 cm⁻¹</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of Labs</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.54</td>
</tr>
<tr>
<td>0.58</td>
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<tr>
<td>0.70</td>
</tr>
<tr>
<td>0.74</td>
</tr>
<tr>
<td>0.82</td>
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</tbody>
</table>

- **Fail:** 3
- **Labs:** 26
- **Pass:** 30
- **Total:** 33

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte: Vanadium, Total</td>
<td></td>
</tr>
<tr>
<td>Sample: 1206</td>
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</tr>
<tr>
<td>Technology: ICP-AES</td>
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<tr>
<td>Prep Method:</td>
<td></td>
</tr>
<tr>
<td>Target: 725 µg/L</td>
<td></td>
</tr>
<tr>
<td>Limits: 616 to 834 µg/L</td>
<td></td>
</tr>
<tr>
<td>Basis: Target Value ± a fixed percent</td>
<td></td>
</tr>
<tr>
<td>Robust Mean: 728.7 µg/L</td>
<td></td>
</tr>
<tr>
<td>Std Dev: 21.1932 µg/L</td>
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</tr>
<tr>
<td>Median: 728 µg/L</td>
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</table>

<table>
<thead>
<tr>
<th>Number of Labs</th>
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</thead>
<tbody>
<tr>
<td>678</td>
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<tr>
<td>713</td>
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<tr>
<td>725</td>
</tr>
<tr>
<td>737</td>
</tr>
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<td>748</td>
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- **Labs:** 26
- **Fail:** 0
- **Pass:** 26
- **Total:** 26

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
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<tbody>
<tr>
<td>Analyte: Vanadium, Total</td>
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<tr>
<td>Sample: 1206</td>
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<tr>
<td>Technology: ICP-MS</td>
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<tr>
<td>Prep Method:</td>
<td></td>
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<tr>
<td>Target: 725 µg/L</td>
<td></td>
</tr>
<tr>
<td>Limits: 616 to 834 µg/L</td>
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</tr>
<tr>
<td>Basis: Target Value ± a fixed percent</td>
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<tr>
<td>Robust Mean: 719.8 µg/L</td>
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<tr>
<td>Std Dev: 193.9233 µg/L</td>
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<td>Median: 717.5 µg/L</td>
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<td>737</td>
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<tr>
<td>748</td>
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</tbody>
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- **Labs:** 26
- **Fail:** 0
- **Pass:** 26
- **Total:** 26

<table>
<thead>
<tr>
<th>Shipment: 412</th>
<th>Matrix: Potable Water</th>
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<tbody>
<tr>
<td>Analyte: Vinyl chloride</td>
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<tr>
<td>Sample: 1220</td>
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<td>Technology: GC-MS</td>
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<tr>
<td>Target: 42.7 µg/L</td>
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<tr>
<td>Limits: 25.6 to 59.8 µg/L</td>
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<tr>
<td>Basis: Target Value ± a fixed percent</td>
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<tr>
<td>Robust Mean: 42.8 µg/L</td>
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<tr>
<td>Std Dev: 4.946 µg/L</td>
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<tr>
<td>Median: 42.8 µg/L</td>
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<td>42.4</td>
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<td>47.6</td>
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<td>50.2</td>
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<td>52.8</td>
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- **Labs:** 29
- **Fail:** 0
- **Pass:** 29
- **Total:** 29
Potable Water Vinyl chloride

A histogram is not displayed for Technology: GCELCD/PID due to the limited number of participants.

Potable Water Oxamyl

Potable Water Zinc, Total

Potable Water Zinc, Total

Score Date: 05/18/2018
Potable Water Zinc, Total

Shipments: 412  Matrix: Potable Water
Analyte: Zinc, Total
Sample: 1206
Technology: ICP-MS
Prep Method:
Target: 275 ug/L
Limits: 234 to 316 ug/L
Basis: Target Value +/- a fixed percent
Robust Mean: 276 ug/L
Std Dev: 22.1377 ug/L
Median: 274 ug/L

Totals for Matrix/Analyte/Technology:
Labs: Pass: 24  Fail: 3  Total: 27

Totals for Matrix/Analyte:
Labs: Pass: 52  Fail: 3  Total: 55

Score Date: 05/18/2018  Proficiency Test Statistics  Page 76 of 76