eurofins | Eaton Analytical

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ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

# Laboratory Report

for

Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, AZ 85007
Attention: David Burchard

**Date of Issue**
**05/06/2017**

**Eurofins Eaton Analytical**

NELAP ACCREDITED TNI LABORATORY
ORELAP 4034

TDF: Thomas.D.French

Project Manager

Report:656735
Project:AV-ED
ADHS License #:AZ0778
Group:Robles Elementary
PO#:PO#: ADEQ16-116686:3

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

# STATE CERTIFICATION LIST

| State | Certification Number | State | Certification Number |
|---|---|---|---|
| **Alabama** | 41060 | **Mississippi** | Certified |
| **Arizona** | AZ0778 | **Montana** | Cert 0035 |
| **Arkansas** | Certified | **Nebraska** | Certified |
| **California-Monrovia-ELAP** | 2813 | **Nevada** | CA00006-2016 |
| **California-Colton- ELAP** | 2812 | **New Hampshire *** | 2959 |
| **California-Folsom- ELAP** | 2820 | **New Jersey *** | CA 008 |
| **California-Fresno- ELAP** | 2966 | **New Mexico** | Certified |
| **Colorado** | Certified | **New York *** | 11320 |
| **Connecticut** | PH-0107 | **North Carolina** | 06701 |
| **Delaware** | CA 006 | **North Dakota** | R-009 |
| **Florida *** | E871024 | **Oregon (Primary AB) *** | **ORELAP 4034** |
| **Georgia** | 947 | **Pennsylvania *** | 68-565 |
| **Guam** | 16-003r | **Puerto Rico** | Certified |
| **Hawaii** | Certified | **Rhode Island** | LAO00326 |
| **Idaho** | Certified | **South Carolina** | 87016 |
| **Illinois *** | 200033 | **South Dakota** | Certified |
| **Indiana** | C-CA-01 | **Tennessee** | TN02839 |
| **Kansas *** | E-10268 | **Texas *** | T104704230-15-9 |
| **Kentucky** | 90107 | **Utah *** | CA000062016-10 |
| **Louisiana *** | LA16003 | **Vermont** | VT0114 |
| **Maine** | CA0006 | **Virginia *** | 460260 |
| **Maryland** | 224 | **Washington** | C838 |
| **Commonwealth of Northern Marianas Is.** | MP0004 | **Wyoming** | Certified |
| **Massachusetts** | M-CA006 | **EPA Region 5** | Certified |
| **Michigan** | 9906 | **Los Angeles County Sanitation Districts** | 10264 |

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

**The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.**

**Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com**

| SPECIFIC TESTS | METHOD OR TECHNIQUE USED | Environ-mental (Drinking Water) | Environ-mental (Waste Water) | Water as a Component of Food and Bev/Bev/ Bottled Water |
|---|---|---|---|---|
| 1,4-Dioxane | EPA 522 | x | | x |
| 2,3,7,8-TCDD | Modified EPA 1613B | x | | x |
| Acrylamide | In House Method (2440) | x | | x |
| Alkalinity | SM 2320B | x | x | x |
| Ammonia | EPA 350.1 | | x | x |
| Ammonia | SM 4500-NH3 H | | x | x |
| Anions and DBPs by IC | EPA 300.0 | x | x | x |
| Anions and DBPs by IC | EPA 300.1 | x | | x |
| Asbestos | EPA 100.2 | x | x | |
| Bicarbonate Alkalinity as HCO3 | SM 2320B | x | x | x |
| BOD / CBOD | SM 5210B | | x | x |
| Bromate | In House Method (2447) | x | | x |
| Carbamates | EPA 531.2 | x | | x |
| Carbonate as CO3 | SM 2330B | x | x | x |
| Carbonyls | EPA 556 | x | | x |
| COD | EPA 410.4 / SM 5220D | | x | |
| Chloramines | SM 4500-CL G | x | x | x |
| Chlorinated Acids | EPA 515.4 | x | | x |
| Chlorinated Acids | EPA 555 | x | | x |
| Chlorine Dioxide | SM 4500-CLO2 D | x | | x |
| Chlorine -Total/Free/ Combined Residual | SM 4500-Cl G | x | x | x |
| Conductivity | EPA 120.1 | | x | |
| Conductivity | SM 2510B | x | x | x |
| Corrosivity (Langelier Index) | SM 2330B | x | | x |
| Cryptosporidium | EPA 1623 | x | | x |
| Cyanide, Amenable | SM 4500-CN G | x | x | |
| Cyanide, Free | SM 4500CN F | x | x | x |
| Cyanide, Total | EPA 335.4 | x | x | x |
| Cyanogen Chloride (screen) | In House Method (2470) | x | | x |
| Diquat and Paraquat | EPA 549.2 | x | | x |
| DBP/HAA | SM 6251B | x | | x |
| Dissolved Oxygen | SM 4500-O G | | x | x |
| DOC | SM 5310C | x | | x |
| E. Coli | (MTF/EC+MUG) | x | | x |
| E. Coli | CFR 141.21(f)(6)(i) | x | | x |
| E. Coli | SM 9223 | | x | |
| E. Coli (Enumeration) | SM 9221B.1/ SM 9221F | x | | x |
| E. Coli (Enumeration) | SM 9223B | x | | x |
| EDB/DCBP | EPA 504.1 | x | | |
| EDB/DBCP and DBP | EPA 551.1 | x | | x |
| EDTA and NTA | In House Method (2454) | x | | x |
| Endothall | EPA 548.1 | x | | x |
| Endothall | In-house Method (2445) | x | | x |
| Enterococci | SM 9230B | x | x | |
| Fecal Coliform | SM 9221 E (MTF/EC) | x | | |
| Fecal Coliform | SM 9221C, E (MTF/EC) | | x | |
| Fecal Coliform (Enumeration) | SM 9221E (MTF/EC) | x | | x |
| Fecal Coliform with Chlorine Present | SM 9221E | | x | |
| Fecal Streptococci | SM 9230B | x | x | |
| Fluoride | SM 4500-F C | x | x | x |
| Giardia | EPA 1623 | x | | x |
| Glyphosate | EPA 547 | x | | x |
| Gross Alpha/Beta | EPA 900.0 | x | x | x |
| Gross Alpha Coprecipitation | SM 7110 C | x | x | x |
| Hardness | SM 2340B | x | x | x |
| Heterotrophic Bacteria | In House Method (2439) | x | | x |
| Heterotrophic Bacteria | SM 9215 B | x | | x |
| Hexavalent Chromium | EPA 218.6 | x | x | x |

| SPECIFIC TESTS | METHOD OR TECHNIQUE USED | Environ-mental (Drinking Water) | Environ-mental (Waste Water) | Water as a Component of Food and Bev/Bev/ Bottled Water |
|---|---|---|---|---|
| Hexavalent Chromium | EPA 218.7 | x | | x |
| Hexavalent Chromium | SM 3500-Cr B | | x | |
| Hormones | EPA 539 | x | | x |
| Hydroxide as OH Calc. | SM 2330B | x | | x |
| Kjeldahl Nitrogen | EPA 351.2 | | x | |
| Legionella | CDC Legionella | x | | x |
| Mercury | EPA 245.1 | x | x | x |
| Metals | EPA 200.7 / 200.8 | x | x | x |
| Microcystin LR | ELISA (2360) | x | | x |
| NDMA | EPA 521 | x | | x |
| NDMA | TQ In house method based on EPA 521 (2425) | x | | x |
| Nitrate/Nitrite Nitrogen | EPA 353.2 | x | x | x |
| OCL, Pesticides/PCB | EPA 505 | x | | x |
| Ortho Phosphate | EPA 365.1 | x | x | x |
| Ortho Phosphate | SM 4500P E | | | x |
| Ortho Phosphorous | SM 4500P E | x | | |
| Oxyhalides Disinfection Byproducts | EPA 317.0 | x | | x |
| Perchlorate | EPA 331.0 | x | | x |
| Perchlorate (low and high) | EPA 314.0 | x | | x |
| Perfluorinated Alkyl Acids | EPA 537 | x | | x |
| pH | EPA 150.1 | x | | |
| pH | SM 4500-H+B | x | x | x |
| Phenylurea Pesticides/ Herbicides | In House Method, based on EPA 532 (2448) | x | | x |
| Pseudomonas | IDEXX Pseudalert (2461) | x | | x |
| Radium-226 | GA Institute of Tech | x | | x |
| Radium-228 | GA Institute of Tech | x | | x |
| Radon-222 | SM 7500RN | x | | x |
| Residue, Filterable | SM 2540C | x | x | x |
| Residue, Non-filterable | SM 2540D | | x | |
| Residue, Total | SM 2540B | | x | x |
| Residue, Volatile | EPA 160.4 | | x | |
| Semi-VOC | EPA 525.2 | x | | x |
| Semi-VOC | EPA 625 | | x | x |
| Silica | SM 4500-Si D | x | x | |
| Silica | SM 4500-SiO2 C | x | x | |
| Sulfide | SM 4500-$S^{=}$ D | | x | |
| Sulfite | SM 4500-$SO^3$B | x | x | x |
| Surfactants | SM 5540C | x | x | x |
| Taste and Odor Analytes | SM 6040E | x | | x |
| Total Coliform (P/A) | SM 9221 A, B | x | | x |
| Total Coliform (Enumeration) | SM 9221 A, B, C | x | | x |
| Total Coliform / E. coli | Colisure SM 9223 | x | | x |
| Total Coliform | SM 9221B | | x | |
| Total Coliform with Chlorine Present | SM 9221B | | x | |
| Total Coliform / E.coli (P/A and Enumeration) | SM 9223 | x | | x |
| TOC | SM 5310C | x | x | x |
| TOX | SM 5320B | | x | |
| Total Phenols | EPA 420.1 | | x | |
| Total Phenols | EPA 420.4 | x | x | x |
| Total Phosphorous | SM 4500 P E | | x | |
| Turbidity | EPA 180.1 | x | x | x |
| Turbidity | SM 2130B | x | x | |
| Uranium by ICP/MS | EPA 200.8 | x | | x |
| UV 254 | SM 5910B | x | | |
| VOC | EPA 524.2/EPA 524.3 | x | | x |
| VOC | EPA 624 | | x | x |
| VOC | EPA SW 846 8260 | x | | x |
| VOC | In House Method (2411) | x | | x |
| Yeast and Mold | SM 9610 | x | | x |

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# Acknowledgement of Samples Received

Addr: **Arizona Department of Environmental Quality**
1110 West Washington Street
Phoenix, AZ 85007

Client ID: ADEQ-LEAD
Folder #: 656735
Project: AV-ED
Sample Group: Robles Elementary

Attn: David Burchard
Phone: (602) 771-4298

Project Manager: Thomas.D.French
Phone: (480) 778-1558
PO #: ADEQ16-116686:3
Sampler: Juan Nunez

The following samples were received from you on **May 01, 2017** at **1015**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

| Sample # | Sample ID | Sample Date |
|---|---|---|
| 201705010191 | 3204 | 04/24/2017 0605 |

Sample Type: Drinking Fountain
Facility ID: West Wing
Sample Point ID: Hallway

| | | |
|---|---|---|
| @ICPMS | Freight - Outbound | Freight - Return |

| | | |
|---|---|---|
| 201705010192 | 3213 | 04/24/2017 0605 |

Sample Type: Drinking Fountain
Facility ID: Wast Wing
Sample Point ID: Hallway

@ICPMS

## Test Description

@ICPMS -- ICPMS Metals



750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 www.EurofinsUS.com/Eaton

656735 CA

# Sample Collection Record

To be completed by the sample collector

Complete copy of this form for each sample collected. Your drinking water sample cannot be tested unless a copy of this form is shipped to the lab with each sample. In addition, the sample cannot be tested unless the Sample Identification Number matches the number on the sample container label.

☑ Check this box to confirm that water had not been used at this tap or other taps in the area for 6 hours and no flushing was done prior to sampling

| | |
|---|---|
| Name of School District | Altar Valley |
| Name of School | Robles Elementary |
| Building (name/number) | WEST WING |
| Type of Fixture (tap, drinking fountain etc.) | DRINKING FOUNTAIN |
| Location of Fixture (example, room number) | HALLWAY |
| Sample Identification Number (ensure this number is also on the sample container) | 3204 |
| Date of Collection | 4/24/17 |
| Time of Collection | 6:05 AM |
| Name of Sample Collector | Juan Nunez |
| Signature Sample Collector | |

| Notes Sample collector: |
|---|
| |

| For Lab use only | |
|---|---|
| Analyze this drinking water sample for lead | |
| Date and Time Lab received | 5/1/17 10:15 |
| Signature | |
| Notes: | |

For relinquishing samples upon delivery to labs only

Relinquished date and signature 5/1/17

These samples are collected and are to be analyzed for screening purposes only and cannot be used for compliance.

CA

# Sample Collection Record

To be completed by the sample collector

Complete copy of this form for each sample collected. Your drinking water sample cannot be tested unless a copy of this form is shipped to the lab with each sample. In addition, the sample cannot be tested unless the Sample Identification Number matches the number on the sample container label.

☑ Check this box to confirm that water had not been used at this tap or other taps in the area for 6 hours and no flushing was done prior to sampling

| | |
|---|---|
| Name of School District | Altar Valley |
| Name of School | Robles Elementary |
| Building (name/number) | East Wing |
| Type of Fixture (tap, drinking fountain etc.) | Drinking Fountain |
| Location of Fixture (example, room number) | Hallway |
| Sample Identification Number (ensure this number is also on the sample container) | 32/3 |
| Date of Collection | 4/24/17 |
| Time of Collection | 6:05 AM |
| Name of Sample Collector | Juan Nunez |
| Signature Sample Collector | |

| Notes Sample collector: |
|---|
| |

| For Lab use only | |
|---|---|
| Analyze this drinking water sample for lead | |
| Date and Time Lab received | 5/1/17 10:15 |
| Signature | |
| Notes: | |

For relinquishing samples upon delivery to labs only

Relinquished date and signature 5/1/17

These samples are collected and are to be analyzed for screening purposes only and cannot be used for compliance.

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# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 656735

SAMPLES REC'D DAY OF COLLECTION? ☐

SAMPLE TEMP RECEIVED:

IR Gun ID = 570 A (Observation= 22.3 °C) (Corr.Factor -0.1 °C) (Final = 22.2 °C)

TYPE OF ICE: Real ____ Synthetic ____ No Ice X

CONDITION OF ICE: Frozen ____ Partially Frozen ____ Thawed ____ N/A X

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: ____

Compliance Acceptance Criteria:

1) Chemistry: >0, ≤6°C, not frozen (NELAP) (If received after 24 hrs of sample collection)

2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) Microbiology, Surface Water: < 10°C (If received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

| | |
|---|---|
| 1 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C) | 2 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C) |
| 3 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C) | 4 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C) |

4) UCMR3 : (non-GLEC) 524.3: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

522: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

≤10°C if received within 48 hours of sample collection (not the same business day); ≤6°C if received after 48 hours of sample collection. Measure temperature for each method above.

5) LT2: Giardia /Cryptosporidium: <20 °C, not frozen (received after 8 hours of sample collection )

E. Coli: < 10°C, not frozen (if received after 2 hours of sample collection)

Giardia/Crypto: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

E.Coli: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

6) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

| | SIGNATURE | PRINT NAME | COMPANY/TITLE | DATE | TIME |
|---|---|---|---|---|---|
| RECEIVED BY: | [signature] | Chris Avila | Eurofins Eaton Analytical | 5/1/17 | 10:15 |

Page ____ of ____

QA FO 0083.4 (QA FO-FRM5504) (02/15/17) Ver 5

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**Laboratory Comments**

**Report:** 656735
**Project:** AV-ED
**Group:** Robles Elementary

Arizona Department of Environmental Quality
David Burchard
1110 West Washington Street
Phoenix, AZ 85007

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**The Comments Report may be blank if there are no comments for this report.**

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**Laboratory Hits**

**Report:** 656735
**Project:** AV-ED
**Group:** Robles Elementary

**Arizona Department of Environmental Quality**
David Burchard
1110 West Washington Street
Phoenix, AZ 85007

Samples Received on:
05/01/2017 1015

| Analyzed | Analyte | Sample ID | Result | Federal MCL | Units | MRL |
|---|---|---|---|---|---|---|
| | **201705010191** | **3204** | | | | |
| 05/04/2017 15:03 | Lead Total ICAP/MS | | 25 | 15 | ug/L | 0.5 |
| | **201705010192** | **3213** | | | | |
| 05/02/2017 19:05 | Lead Total ICAP/MS | | 0.53 | 15 | ug/L | 0.5 |

**SUMMARY OF POSITIVE DATA ONLY**

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**Laboratory Data**

**Report:** 656735
**Project:** AV-ED
**Group:** Robles Elementary

**Arizona Department of Environmental Quality**
David Burchard
1110 West Washington Street
Phoenix, AZ 85007

Samples Received on:
05/01/2017 1015

| Prepped | Analyzed | Prep Batch | Analytical Batch | Method | Analyte | Result | Units | MRL | Dilution |
|---|---|---|---|---|---|---|---|---|---|
| **3204 (201705010191)** | | | | | | | **Sampled on 04/24/2017 0605** | | |
| Sample Type: Drinking Fountain | | | | | | | | | |
| Facility ID: West Wing | | | | | | | | | |
| Sample Point ID: Hallway | | | | | | | | | |
| **EPA 200.8 - ICPMS Metals** | | | | | | | | | |
| 05/02/17 | 05/04/17 15:03 | 990890 | 991990 | (EPA 200.8) | Lead Total ICAP/MS | 25 | ug/L | 0.5 | 1 |
| **3213 (201705010192)** | | | | | | | **Sampled on 04/24/2017 0605** | | |
| Sample Type: Drinking Fountain | | | | | | | | | |
| Facility ID: Wast Wing | | | | | | | | | |
| Sample Point ID: Hallway | | | | | | | | | |
| **EPA 200.8 - ICPMS Metals** | | | | | | | | | |
| 05/02/17 | 05/02/17 19:05 | 990890 | 991435 | (EPA 200.8) | Lead Total ICAP/MS | 0.53 | ug/L | 0.5 | 1 |

Rounding on totals after summation.
(c) - indicates calculated results

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**Laboratory QC Summary**

**Report:** 656735
**Project:** AV-ED
**Group:** Robles Elementary

Arizona Department of Environmental Quality

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**ICPMS Metals**

**Prep Batch: 990890** **Analytical Batch: 991435** **Analysis Date: 05/02/2017**

201705010192 3213 Analyzed by: RPD

**ICPMS Metals**

**Prep Batch: 990890** **Analytical Batch: 991990** **Analysis Date: 05/04/2017**

201705010191 3204 Analyzed by: DTN

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**Laboratory QC**

**Report:** 656735
**Project:** AV-ED
**Group:** Robles Elementary

Arizona Department of Environmental Quality

| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|---|---|---|---|---|---|---|---|---|---|
| **ICPMS Metals by EPA 200.8** | | | | | | | | | |
| **Analytical Batch: 991435** | | | | | | | **Analysis Date: 05/02/2017** | | |
| LCS1 | Lead Total ICAP/MS | | 20 | 18.9 | ug/L | 95 | (85-115) | | |
| LCS2 | Lead Total ICAP/MS | | 20 | 18.9 | ug/L | 95 | (85-115) | 20 | 0.0 |
| MBLK | Lead Total ICAP/MS | | | <0.25 | ug/L | | | | |
| MRL_CHK | Lead Total ICAP/MS | | 0.5 | 0.516 | ug/L | 103 | (50-150) | | |
| MS_201705010184 | Lead Total ICAP/MS | 6.4 | 20 | 26.8 | ug/L | 102 | (70-130) | | |
| MS2_201705010660 | Lead Total ICAP/MS | ND | 20 | 20.0 | ug/L | 100 | (70-130) | | |
| MSD_201705010184 | Lead Total ICAP/MS | 6.4 | 20 | 26.7 | ug/L | 102 | (70-130) | 20 | 0.37 |
| MSD2_201705010660 | Lead Total ICAP/MS | ND | 20 | 19.4 | ug/L | 97 | (70-130) | 20 | 3.0 |
| **ICPMS Metals by EPA 200.8** | | | | | | | | | |
| **Analytical Batch: 991990** | | | | | | | **Analysis Date: 05/04/2017** | | |
| LCS1 | Lead Total ICAP/MS | | 20 | 20.7 | ug/L | 104 | (85-115) | | |
| LCS2 | Lead Total ICAP/MS | | 20 | 20.3 | ug/L | 101 | (85-115) | 20 | 2.0 |
| MBLK | Lead Total ICAP/MS | | | <0.25 | ug/L | | | | |
| MRL_CHK | Lead Total ICAP/MS | | 0.5 | 0.490 | ug/L | 98 | (50-150) | | |
| MS_201705021158 | Lead Total ICAP/MS | ND | 20 | 20.8 | ug/L | 104 | (70-130) | | |
| MS2_201705021160 | Lead Total ICAP/MS | ND | 20 | 23.2 | ug/L | 116 | (70-130) | | |
| MSD_201705021158 | Lead Total ICAP/MS | ND | 20 | 21.8 | ug/L | 109 | (70-130) | 20 | 4.7 |
| MSD2_201705021160 | Lead Total ICAP/MS | ND | 20 | 22.3 | ug/L | 112 | (70-130) | 20 | 4.0 |

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.